Texas Water Development Board

2028 REGIONAL FLOOD PLAN INTERIM TECHNICAL MEMORANDUM

REGION 6

SAN JACINTO

January 2026

PREPARED FOR THE **SAN JACINTO REGIONAL FLOOD PLANNING GROUP**

2028 REGIONAL FLOOD PLAN
INTERIM TECHNICAL MEMORANDUM

PREPARED FOR:

TWDB on behalf of Region 6 San Jacinto Regional Flood Planning Group

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EXECUTIVE SUMMARY

Freese and Nichols Inc. (FNI) has been retained as the Technical Consultant to the San Jacinto Regional Flood Planning Group (San Jacinto RFPG) to develop the second regional flood plan (RFP), as part of the state flood planning process administered by the Texas Water Development Board (TWDB). This Technical Memorandum serves as a preliminary check on the Regional Flood Planning Group (RFPGs) progress towards the complete RFP by providing an overview of various tasks, processes used, and data collected. All the materials provided in this memo are subject to change prior to the submittal of the full draft flood plan due in May of 2027.

Definitions

This section provides definitions of key terms and acronyms.

A **Flood Management Evaluation (FME)** is 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.

A **Flood Management Strategy (FMS)** is a proposed plan to reduce flood risk or mitigate flood hazards to life or property. At a minimum, RFPGs should include as FMSs any proposed action that the group would like to identify, evaluate, and recommend that does not qualify as either a FME or FMP.

A **Flood Mitigation Project (FMP)** is a proposed project, either structural or non-structural, that has non-zero capital costs or other non-recurring costs and when implemented will reduce flood risk or mitigate flood hazards to life or property.

Annual Chance Exceedance (ACE) represents the probability of a specific magnitude event occurring in a year.

INTRODUCTION

In 2019, the 86th Texas Legislature enacted Senate Bill 8 directing the creation of the first State Flood Plan. The Texas Legislature also adopted changes to the Texas Water Code §16.061 to establish the regional and state flood planning processes that are overseen by the TWDB. As outlined by the Texas Water Code, the purpose of the Regional and State Flood Plans is to:

- Provide orderly preparation and response to flood conditions to protect against loss of life and property;
- Guide state and local flood control policy; and
- Contribute to water development, where possible.

TWDB established 15 flood planning regions based on river basin boundaries. **Figure 1** shows the delineation of the 15 flood planning regions as well as the boundary of and counties within the San Jacinto Flood Planning Region.

In addition to effort in this second cycle of flood planning, the San Jacinto RFPG has adopted the following regional flood planning documents and amendments that informed the development of and content reflected in this technical memorandum:

- 2023 San Jacinto Regional Flood Plan – submitted to TWDB on January 10th, 2023
- 2023 San Jacinto Regional Flood Plan Amendment No.1 – submitted to TWDB on July 14th, 2023
- 2023 San Jacinto Regional Flood Plan Amendment No.2 – submitted to TWDB on April 1st, 2025

The San Jacinto Region encompasses all the San Jacinto River and its tributaries, covering an area of approximately 5,089 square miles containing approximately 3,696 stream miles, according to the TWDB website, with 83 municipalities and 11 counties are included within the region. The San Jacinto region is depicted below in **Figure 1**.

Figure 1: San Jacinto Flood Planning Region

The first deliverable for the 2028 RFP, due to the TWDB on January 7, 2026, is an interim Technical Memorandum intended to demonstrate progress towards compiling the necessary technical information and analyses needed to develop the RFP and meet contract requirements. The Technical Memorandum includes the information required in the Scope of Work and guidance documents provided by the TWDB that pertain to aspects of the following project tasks:

- Task 1: Planning Area Description
- Task 2: Flood Risk Analysis
- Task 3: Floodplain Management Practices and Flood Protection Goals
- Task 4: Assessment and Identification of Flood Mitigation Needs

As outlined in Exhibit D, *Data Submittal Guidelines*, the spatial feature deliverables required with the submission of the Technical Memorandum are listed below in **Table 1**.

Table 1: Technical Memorandum Spatial Deliverables

Feature Class Name	Description
Entities	Entities with flood-related authority
ExFldInfraPol/ExFldInfraLn/ExFldInfraPt	Existing natural flood mitigation features and constructed flood infrastructure
ExFldProjs	Proposed or ongoing flood mitigation projects
Watersheds	Watersheds (HUC-8, -10, -12)
ExFldHazard	Existing conditions inundation boundary for the 10%, 1.0% and 0.2% ACE events
Ex_Map_Gaps	Existing gaps in inundation boundary mapping
ExFldExpPol / ExFldExpLn / ExFldExpPt / ExFldExpAll	Existing conditions flood exposure layer identifying people and places at risk for the 10%, 1.0% and 0.2% ACE events
FutFldHazard	Future conditions inundation boundary for the 10%, 1.0% and 0.2% ACE events
Fut_Map_Gaps	Future gaps in inundation boundary mapping
FutFldExpPol /FutFldExpLn / FutFldExpPt FutFldExpAll	Future conditions flood exposure layer identifying people and places at risk for the 10%, 1.0% and 0.2% ACE events
ExFpMng	Areas with existing floodplain management practices
Goals	Adopted flood mitigation and floodplain management goals with associated areas
Streams	Streams relevant to proposed FMEs, FMSs, and FMPs
FME/FMS/FMP	Proposed FMEs, FMSs, and FMPs with associated areas
Model Coverage	Spatial extent of each model used to identify FMP, FME, and FMSs

TASK 4B – TECHNICAL MEMORANDUM

Task 1 – Planning Area Description

Existing Political Subdivisions

In compliance with Exhibit C, Section 2.4.B -Task 4B, Item 1, Attachment A, this section provides a list of existing political subdivisions within the San Jacinto region that have flood-related authorities or responsibilities. The list of political subdivisions actively involved in the San Jacinto region with flood-related authority was created based on the Entities layer provided in the TWDB Data Hub. Entities and political subdivisions that have flood-related authority can be defined as, but are not limited to, entities that have the authority to enact and enforce National Flood Insurance Program (NFIP) floodplain regulations and those that construct, maintain, manage, sponsor, or perform various actions associated with drainage infrastructure or flood control.

For the purpose of populating the required table as part of the January 2026 Technical Memorandum submittal, political subdivisions were defined as those entities whose leadership are determined through open elections. All political subdivisions that were identified as having flood-related authority within the San Jacinto Region are shown in **Table 2**, **Table 3**, and **Appendix 1-A**, listing 1,037 political subdivisions that have flood-related authority,

104 of which are active in flood planning. Political subdivisions active in flood planning include 82 municipalities, 11 counties, and 11 special districts. All other special district political subdivision types such as Utility Districts, Management Districts, Improvement Districts, etc. are included in **Appendix 1-A**.

Table 2: Political Subdivisions with Flood-Related Authority - Counties

Entity	Actively Involved in Flood Planning?
Brazoria	Yes
Chambers	Yes
Fort Bend	Yes
Galveston	Yes
Grimes	Yes
Harris	Yes
Liberty	Yes
Montgomery	Yes
San Jacinto	Yes
Walker	Yes
Waller	Yes

Table 3: Political Subdivisions with Flood-Related Authority - Municipalities

Entity	Actively Involved in Flood Planning?
City of Alvin	Yes
City of Arcola	Yes
City of Bayou Vista	Yes
City of Baytown	Yes
City of Beach City	Yes
City of Bellaire	Yes
City of Brookside Village	Yes
City of Bunker Hill Village	Yes
City of Clear Lake Shores	Yes
City of Cleveland	Yes
City of Coldspring	Yes
City of Conroe	Yes
City of Cut and Shoot	Yes
City of Dayton	Yes
City of Deer Park	Yes
City of Dickinson	Yes
City of El Lago	Yes
City of Friendswood	Yes
City of Fulshear	Yes
City of Galena Park	Yes
City of Galveston	Yes
City of Hedwig Village	Yes
City of Hillcrest	Yes
City of Hillshire Village	Yes
City of Hitchcock	Yes

Entity	Actively Involved in Flood Planning?
City of Missouri City	Yes
City of Mont Belvieu	Yes
City of Montgomery	Yes
City of Morgan's Point	Yes
City of Nassau Bay	Yes
City of New Waverly	Yes
City of North Cleveland	No
City of Oak Ridge North	Yes
City of Panorama Village	Yes
City of Pasadena	Yes
City of Patton Village	Yes
City of Pearland	Yes
City of Piney Point Village	Yes
City of Plantersville	Yes
City of Plum Grove	Yes
City of Prairie View	Yes
City of Roman Forest	Yes
City of Santa Fe	Yes
City of Seabrook	Yes
City of Shenandoah	Yes
City of Shoreacres	Yes
City of South Houston	Yes
City of Southside Place	Yes
City of Splendora	Yes
City of Spring	Yes

Entity	Actively Involved in Flood Planning?
City of Houston	Yes
City of Humble	Yes
City of Hunters Creek Village	Yes
City of Huntsville	Yes
City of Iowa Colony	Yes
City of Jacinto City	Yes
City of Jamaica Beach	Yes
City of Jersey Village	Yes
City of Katy	Yes
City of Kemah	Yes
City of La Marque	Yes
City of La Porte	Yes
City of League City	Yes
City of Liverpool	Yes
City of Magnolia	Yes
City of Manvel	Yes
City of Meadows Place	Yes

Entity	Actively Involved in Flood Planning?
City of Spring Valley Village	Yes
City of Stafford	Yes
City of Stagecoach	Yes
City of Sugar Land	Yes
City of Taylor Lake Village	Yes
City of Texas City	Yes
City of Tiki Island	Yes
City of Todd Mission	Yes
City of Tomball	Yes
City of Waller	Yes
City of Webster	Yes
City of West University Place	Yes
City of Willis	Yes
City of Woodbranch Village	Yes
The Woodlands Township	Yes
Town of Woodloch	Yes

Task 1 - Technical Memorandum Deliverables

The following table lists the final supplemental deliverables that are submitted in support of Task 1.

Table 4: Task 1 Deliverables

Checklist Item #	Deliverable Name	Requirement Reference	Deliverable location
1	Political Subdivisions List	Exhibit C Task 4B Item A	Included in **Appendix 1-A**
2	Entities feature class	Exhibit D Table 1	Included in geodatabase digital submittal
3	ExFldInfraPol feature class	Exhibit D Table 1	Included in geodatabase digital submittal
4	ExFldInfraLn feature class	Exhibit D Table 1	Included in geodatabase digital submittal
5	ExFldInfraPt feature class	Exhibit D Table 1	Included in geodatabase digital submittal
6	ExFldProjs feature class	Exhibit D Table 1	Included in geodatabase digital submittal
7	Watersheds feature class	Exhibit D Table 1	Included in geodatabase digital submittal

Task 2 – Flood Risk Analyses

As defined in the Scope of Work for Task 2A – Existing Condition Flood Risk Analyses and Task 2B – Future Condition Flood Risk Analyses, the RFPGs shall "perform existing [and future] condition flood hazard analyses to determine the location and magnitude of 10% annual chance, 1% annual chance and 0.2% annual chance flood events." The sections below describe the process used to create the flood hazard, respective to existing and future conditions.

In compliance with Exhibit C, Section 2.4.B - Task 4B, Item 1, Attachment C, the following sections describe the development of the Existing Flood Hazard and Future Flood Hazard layers. Each corresponding sub-task – Task 2A for existing conditions and Task 2B for future conditions – references the resulting geodatabase and associated maps for the respective conditions. These deliverables include feature classes that represent the region-wide 10.0%, 1.0% and 0.2% ACE events inundation boundaries, along with the source of flooding for each area, as applicable to both existing and future conditions.

Task 2A – Existing Condition Flood Risk Analysis

Existing Flood Hazard Approach

Task 2A is intended to identify and compile a comprehensive outlook of existing conditions flood hazards in the region including riverine (fluvial) flooding, urban (pluvial) flooding, coastal flooding, playa flooding, and possible flood-prone areas of risks. This task is primarily a data gathering and assessment task of available flood hazard information and determination of how to leverage information for use in this second flood planning cycle. This effort and the resultant mapping is not regulatory in nature but is, instead, intended to gather and present a single, coherent, continuous set of information on flood risk throughout the San Jacinto region.

The existing flood hazard developed in the first planning cycle only included 1% and 0.2% ACE events. The first planning cycle mosaiced National Flood Hazard Layer (NFHL) Effective Detailed data, NFHL Effective Approximate data, and Base Level Engineering (BLE) data with a max-on-max approach to develop existing flood hazard. This second planning cycle updated the maps to include the 10% ACE event and leveraged recent studies that incorporate Atlas 14 rainfall, recent development, and latest modeling software that have been calibrated to recent flood events.

The technical consultants presented a general overview of the data hierarchy, that was then discussed by, and approved by the Technical Committee on July 2, 2025 and the San Jacinto RFPG on August 14, 2025, as detailed below:

1. Community Models & Maps
    a. Recent modeling with Atlas 14 rainfall (GLO, FIF Studies, MDPs, and MAAPnext)
2. 2D BLE
3. FEMA Detailed NFHL
4. 1D BLE
5. Fathom

To utilize available flood hazard data applicable within the San Jacinto Region and provide the most comprehensive coverage, the region was split into 6 areas and a more refined data hierarchy was developed based on the available data within each area, following the overview presented and approved by the RFPG on August 14, 2025. **Figure 2** shows all 6 areas with varying data hierarchies.

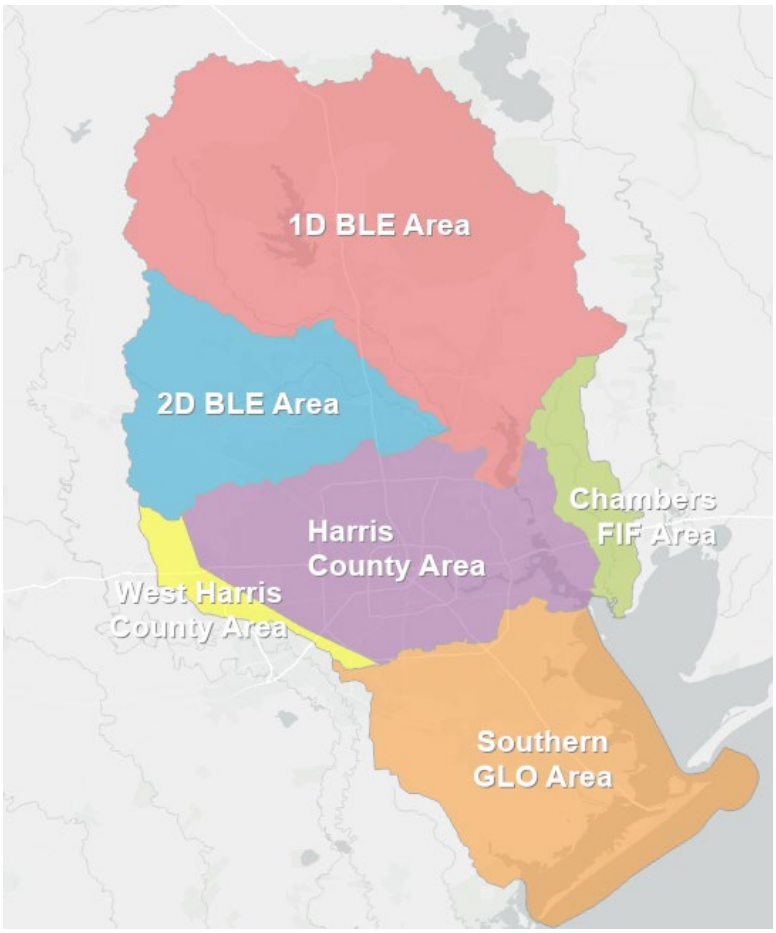

Figure 2: Subdivided Data Hierarchy Areas within the San Jacinto Region

The refined data hierarchy per area is detailed below:

<u>1D BLE Area</u>

1. Harris County Modeling, Assessment and Awareness Project (MAAPnext)
2. San Jacinto Master Drainage Plan (SJMDP)
3. FEMA Detailed NFHL
4. 1D BLE
5. Pluvial Fathom

<u>2D BLE Area</u>

1. MAAPnext
2. SJMDP
3. 2D BLE

<u>Chambers County Flood Infrastructure Fund (FIF) Area</u>

1. Chambers County FIF Study
2. Pluvial Fathom
3. NFHL Coastal Zone VE

Harris County Area

1. MAAPnext
2. Pluvial Fathom
3. NFHL Coastal Zone VE (100-year only, since 10-year and 500-year do not exist)

West of Harris County

1. MAAPnext
2. 2D BLE
3. NFHL Coastal Zone VE (100-year only, since 10-year and 500-year do not exist)

Southern General Land Office (GLO) Area

1. MAAPnext
2. GLO Central Region Combined River Basin Flood Studies (RBFS)
3. 2D BLE
4. NFHL Coastal Zone VE (100-year only, since 10-year and 500-year do not exist)

In areas with overlapping data, available modeling with higher quality and level of detail were prioritized first with subsequent available data supplemented in to capture risk, when applicable. For instance in the northern region, SJMDP was utilized as it provided the most accurate depiction of flood risk along major rivers, however smaller tributary flood risk was not captured in the study and therefore there was a need to supplement with 2D BLE data. This example is highlighted below, in **Figure 3.**

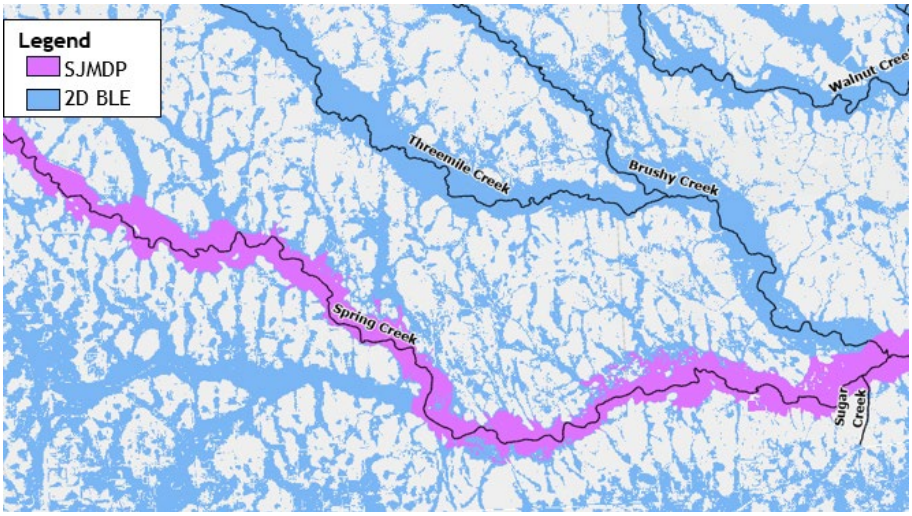

Figure 3: SJMDP and 2D BLE Comparison

Explanation of Approach

This hierarchy method was used for the San Jacinto Region in order to prioritize recent modeling and supplement with additional data to capture similar levels of detail across the entirety of the region. Since the San Jacinto Region is data rich, these recent, local models that utilize Atlas 14 rainfall, recent terrain and development, and have been calibrated served as the primary data sources to develop the Existing Flood Hazard layer. Available FEMA NFHL data can be as old as 18 years and lacks recent modeling updates, such as Atlas 14 rainfall, recent development, terrain, or 2D modeling. Due to the outdated nature of this available data, FEMA NFHL data was only utilized in the 1D BLE area and along the coast of the San Jacinto region for mapping existing flood hazard, as agreed upon by the San Jacinto RFPG on August 14, 2025.The San Jacinto RFPG chose this approach in alignment

with Goal ID: 06-20-0000000010 – expand the understanding of flood risk in the San Jacinto region, measured by the percentage of the floodplain quilt that is based on Atlas 14 rainfall – previously adopted in 2023. This approach supports the goal by leveraging investments from local stakeholders and the state to better understand flood risk and update FEMA regulatory mapping. This approach prioritizes and takes into account recent updates, such as Atlas 14 rainfall, updated terrain, recent development, utilizing updated modeling software, and calibrating to recent storm events.

The MAAPnext modeling within Harris County was ranked above other models due to the incorporation of Atlas 14 rainfall, updated terrain data, inclusion of completed flood damage reduction projects, calibrated and validated with historical events, and inclusion of previously unmapped urban flooding. In areas where MAAPnext data was available, that data source was used as the primary source. The remaining areas outside of Harris County prioritize the community models available in those areas. For instance, in the northern part of the San Jacinto region, the SJMDP is prioritized as the most recent comprehensive modeling done of the 13 major streams that utilized Atlas 14 rainfall data, calibrated and validated with historical events, and recent terrain data. Chambers County FIF modeling was also prioritized for similar reasons. The recent GLO Combined RBFS models were also used primarily in the southern portion of the region, since they incorporated Atlas 14 riverine, coastal, and compound flooding, and have also been calibrated and validated with historical events.

Although community models were the primary data source since they provide more accurate depictions of flood risk, supplemental data was also needed to map additional flood risk within the San Jacinto region. 2D BLE data was supplemented to capture the urban and tributary flood risk. **Figure 3** shows the difference in flood risk captured from community models, such as the SJMDP and 2D BLE data, to highlight the need to supplement community models with additional data to create a comprehensive view of flood risk across the San Jacinto region. FEMA Detailed NFHL and 1D BLE had similar flood risk footprint along major rivers, but FEMA Detailed NFHL was prioritized over 1D BLE due to its incorporation of structures into the model. Pluvial Fathom was prioritized last in areas of the San Jacinto region where 2D rain-on-mesh modeling was not available and captured local flooding.

FEMA NFHL Pending Data, FEMA NFHL Preliminary Flood Hazard data, FAFDS, and FEMA Approximate NFHL was considered, but was not used because flood risk coverage was achieved throughout the San Jacinto region with higher quality data sources.

Floodplain Processing Parameters

To develop a unified flood hazard layer, it was necessary to perform data processing to integrate multiple floodplain sources. The table below, **Table 5**, details the processing parameters applied to each dataset to ensure consistency and compatibility across the merged flood hazard layers.

Table 5: Floodplain Processing Parameters

Depth Filter	Island Eliminations	Filling holes	Simplifying	Smoothing
0.5 ft	< 2 Acres	< 0.5 Acre	2.5 ft	20 ft

These processing parameters were selected to reduce model noise and improve the reliability of the floodplain delineation. Specifically, small ponding areas under 2 acres and shallow inundation zones with depths less than 0.5-ft were excluded, as these areas were more indictive of modeling uncertainty. Gaps within the floodplain smaller than 0.5 acres were filled to maintain continuity. Additionally, the floodplain extents were simplified and smoothed using a tolerance of 2.5-ft and 20-ft tolerance, respectively, to remove extraneous vertices while preserving the essential extents of the floodplain and enhancing cartographic clarity.

MAAPnext Data Public Release

While HCFCD shared MAAPnext modeling with the Technical Consultant team for use in developing a more robust regional flood plan that more accurately represents flood risk in the San Jacinto region, MAAPnext flood insurance rate map information has not yet been released by FEMA and is not included in this deliverable. The following approach was shared with the TWDB in an email on July 21, 2025, prior to the delivery of this Technical Memorandum to invite feedback, concerns, or questions.

For maps of existing and future conditions flood risk for the 10%, 1.0% and 0.2% ACE events, mapping within Harris County was removed, showing no flood risk information within Harris County. MAAPnext sourced data was removed from other contributing drainage areas to Harris County. The impacted Technical Memorandum deliverable items are as follows:

- Tech Memo Deliverable Item 9: Map 4 – Existing Condition Flood Hazard
- Tech Memo Deliverable Item 16: Map 6 – Existing Condition Flood Exposure
- Tech Memo Deliverable Item 17: Map 7 – Existing Condition Vulnerability
- Tech Memo Deliverable Item 19: Map 8 – Future Condition Flood Hazard
- Tech Memo Deliverable Item 20: Map 9 – Extent of Increase of Flood Hazard Compared to Existing Condition
- Tech Memo Deliverable Item 22: Map 10 – Future Condition Flood Hazard - Gaps in Inundation Boundary Mapping and Identify known Flood Prone Areas
- Tech Memo Deliverable Item 27: Map 11 – Future Condition Flood Exposure
- Tech Memo Deliverable Item 28: Map 12 – Future Condition Vulnerability and Critical Infrastructure

MAAPnext source data was removed from the existing flood hazard and exposure data feature classes submitted in the deliverable geodatabase. Specifically, the existing flood hazard feature class excluded MAAPnext source data and all existing flood exposure feature classes were adjusted to remove any intersecting MAAPnext data. The impacted technical memorandum deliverable items are as follows:

- Tech Memo Deliverable Item 8: Completed feature class Existing Flood Hazard (ExFldHazard)
- Tech Memo Deliverable Item 10: Completed feature class Existing Flood Exposure Polygon (ExFldExpPol)
- Tech Memo Deliverable Item 11: Completed feature class Existing Flood Exposure Line (ExFldExpLn)
- Tech Memo Deliverable Item 12: Completed feature class Existing Flood Exposure Point (ExFldExpPt)
- Tech Memo Deliverable Item 13: Completed feature class Existing Flood Exposure All (ExFldExpAll)
- Tech Memo Deliverable Item 18: Completed feature class Future Flood Hazard (FutFldHazard)
- Tech Memo Deliverable Item 23: Completed feature class Future Flood Exposure Polygon (FutFldExpPol)
- Tech Memo Deliverable Item 24: Completed feature class Future Flood Exposure Line (FutFldExpLn)
- Tech Memo Deliverable Item 25: Completed feature class Future Flood Exposure Point (FutFldExpPt)
- Tech Memo Deliverable Item 26: Completed feature class Future Flood Exposure All (FutFldExpAll)

The coverage map showing the extent of increases of flood hazard compared to existing conditions for the 10%, 1.0% and 0.2% ACE events excludes areas within Harris County where MAAPnext data defines existing flood hazard conditions. The impacted technical memorandum deliverable items are as follows:

- Tech Memo Deliverable Item 20: Map 9 – Extent of Increase of Flood Hazard Compared to Existing Condition

Additional Flood-Prone Areas

In compliance with Exhibit C, Section 2.4.B - Task 4B, Item 1, Attachment D, this section describes how additional flood-prone areas were identified and incorporated based on hydrologic features, historic flooding and local knowledge. The methodology outlined below reflects the current approach used by the Technical Consultant and the San Jacinto RFPG to collect flood-prone area data. These areas are defined as locations known to experience flooding beyond the extent of the developed existing flood hazard floodplain. The spatial components will be provided with the January 2026 Technical Memorandum submission included as part of the Existing Flood Hazard and Future Flood Hazard.

Flood-prone areas are being considered as known locations that experience flooding outside the extent of the existing flood hazard area. Members of the public and regional stakeholders were provided the opportunity to identify flood-prone areas using an online interactive map where users were allowed to provide input as points and polygons. The following four questions are required for any comment submission on the web map.

1. What is impacted by the flooding?
2. How often does the area flood?
3. What level of storm intensity causes the area to flood?
4. What appears to be the main cause of the flooding at each location?

Additionally, users can provide written comments and attach photos with each submission. The online interactive map was made available for public comment on May 8, 2025. An example screenshot of a user response from the web map survey can be seen below in **Figure 4**.

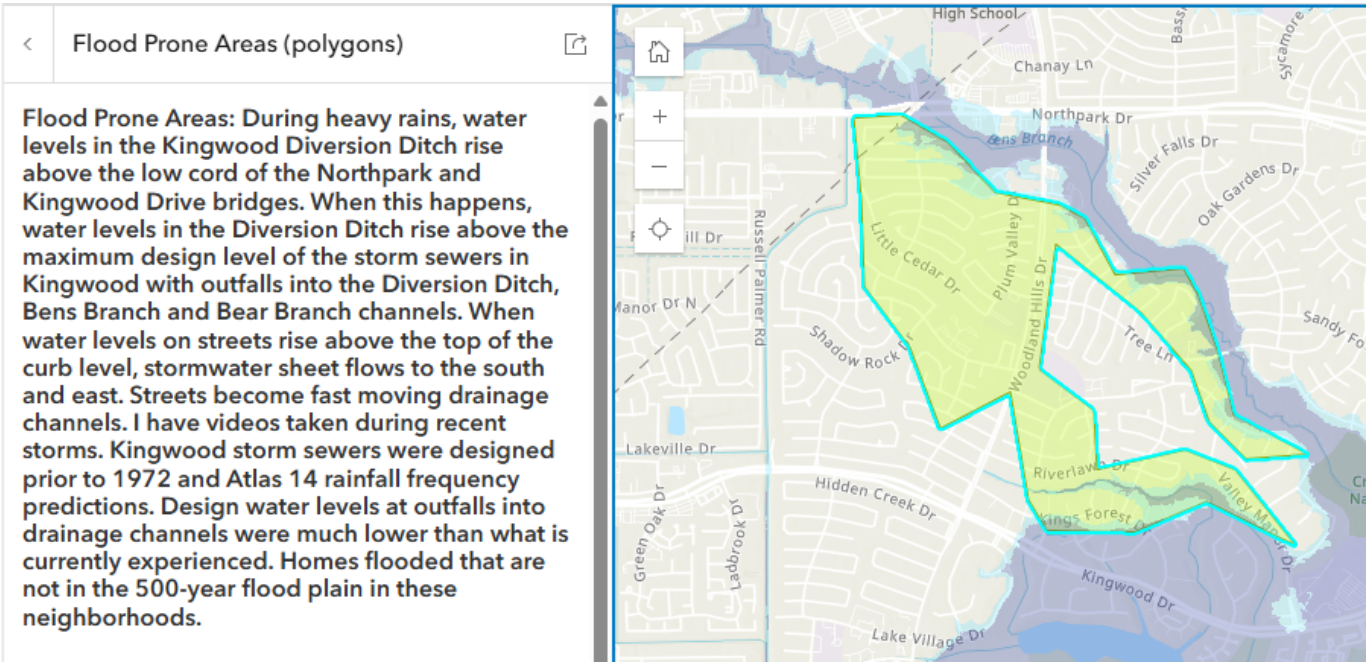

Figure 4: Flood-Prone Area Survey Response Example

First Planning Cycle & Second Planning Cycle Existing Flood Hazard Comparison

The second cycle existing flood hazard developed in this second cycle showed a significant increase in floodplain area extents compared to the first planning cycle. The extent of this change is representative of the more accurate data used to develop the floodplain, such as updated rainfall data, and the capture of pluvial flooding through rain-on-mesh modeling. **Figure 5**, shown below, highlights the differences between first and second cycle

floodplain area. One major contributing factor to these changes is, as previously mentioned, the use of better, more accurate data. First planning cycle referenced data sources that utilized pre-Atlas 14 rainfall data. This second cycle prioritized community models that utilized Atlas 14 rainfall, which showed pre-Atlas 14 500-year rainfall more comparable to the Atlas 14 100-year rainfall. That trend is similarly showcased as the results show the first cycle area in 500-year floodplain relatively similar to the second cycle area in 100-year floodplain.

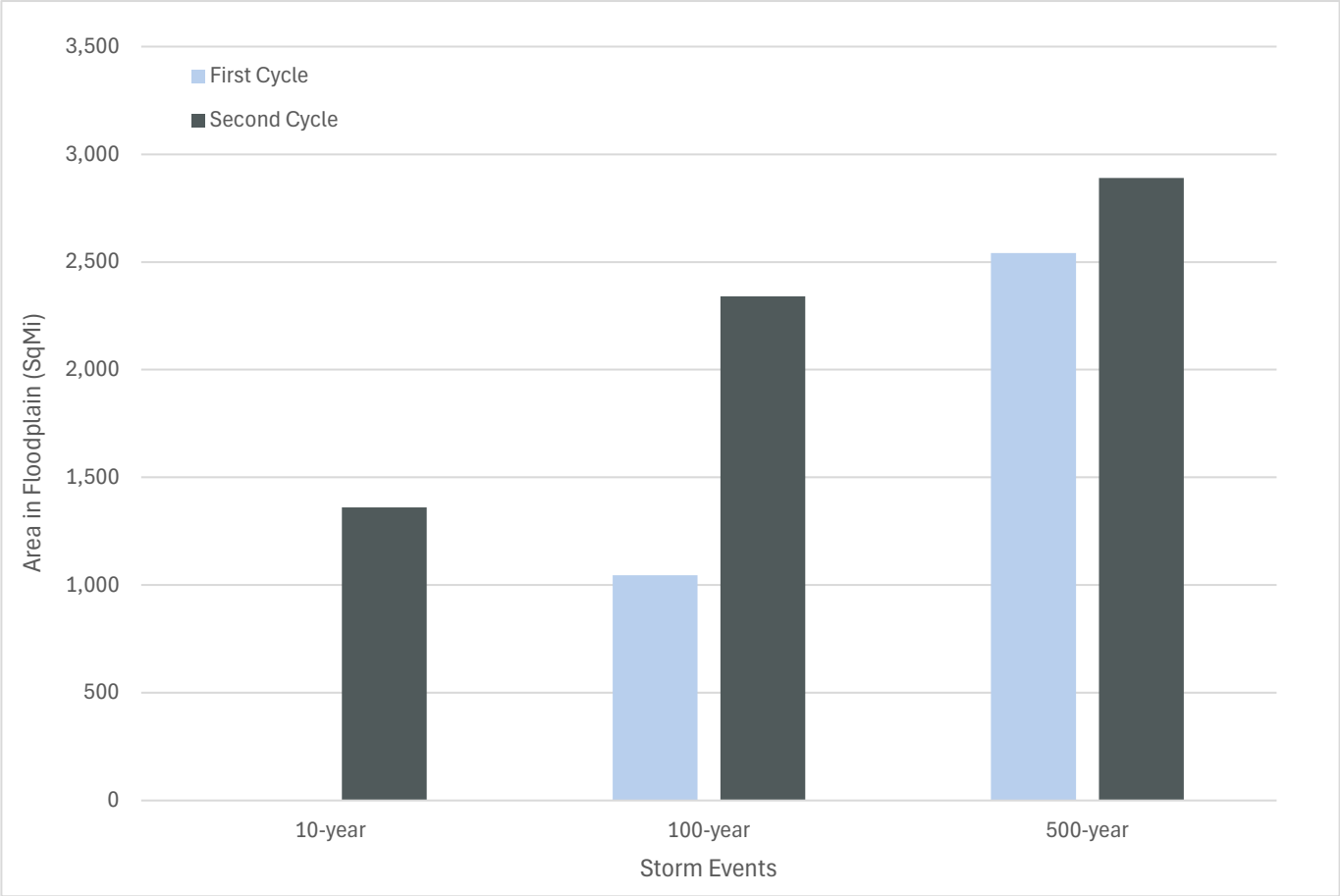

Figure 5: Comparison of First Planning Cycle and Second Cycle Floodplain Footprint Area

Task 2A - Technical Memorandum Deliverables

The following table lists the final supplemental deliverables that are submitted in support of Task 2A.

Table 6: Task 2A Deliverables

Checklist Item #	Deliverable Name	Requirement Reference	Deliverable Location
8	ExFldHazard feature class	Exhibit D Table 1	Included in geodatabase digital submittal
9	Map 4	Exhibit D Task 4B Item C & D	Included in **Appendix 2-A**
10	ExFldExpPol feature class	Exhibit D Table 1	Included in geodatabase digital submittal
11	ExFldExpLn feature class	Exhibit D Table 1	Included in geodatabase digital submittal

Checklist Item #	Deliverable Name	Requirement Reference	Deliverable location
12	ExFldExpPt feature class	Exhibit D Table 1	Included in geodatabase digital submittal
13	ExFldExpAll feature class	Exhibit D Table 1	Included in geodatabase digital submittal
14	Ex_Map_Gaps feature class	Exhibit D Table 1	Included in geodatabase digital submittal
15	Map 5	Exhibit D Task 4B Item C & D	Included in **Appendix 2-A**
16	Map 6	Exhibit C Task 4B Item C	Included in **Appendix 4-E** (also referenced in Task 4B deliverables)
17	Map 7	Exhibit D Task 4B Item C & D	Included in **Appendix 2-A**

Task 2B – Future Condition Flood Risk Analysis

Future Flood Hazard Approach

Task 2B is intended to characterize the future conditions for the planning area based on a "no-action" scenario of approximately 30-years, estimated to be the year 2060, of continued development and population growth under current development trends and patterns, and existing flood regulations and policies, based on the following factors:

- Current floodplain management regulations and policies
- Current land use and development trends and practices and associated projected population
- Continued development Increase and associated population growth
- Anticipated sea level rise and subsidence
- Anticipated changes to functionality of existing floodplain
- Anticipated sedimentation in flood control structures and major geomorphic changes
- Completion of flood mitigation projects currently under construction or already have designated funding

The following approach was presented to and approved by the San Jacinto RFPG at the planning meeting on August 14, 2025 and was accepted by the TWDB on October 22, 2025.

The TWDB provided Fathom's future condition flood risk products for the state of Texas to the planning groups in May 2025. The following are important conclusions from the Fathom report titled "Year 2060 Floodplain Maps for Texas – Final Report":

1. For fluvial and pluvial scenarios: When future land use and subsidence are introduced without changes in climate, the median change in water surface elevation is zero.
2. For coastal scenarios: When future land use and subsidence are introduced without changes in climate, the median increase in water surface elevation is two inches.
3. For all scenarios: Future climate forcing is the biggest driver in water surface elevation increases.

The TWDB's guidance states that for areas where future floodplain is projected to decrease, the regional flood planning groups are "required to utilize the flood hazard area that is at least equal to the existing flood hazard for the same area." The expectation within the San Jacinto region is for the future floodplain to be larger than that of the existing condition flood hazard layer.

Upon review of the combined peril Scenario 3 (significant future climate forcing) data, it was commonly found that the Scenario 3 floodplains were smaller than existing condition flood extents from detailed modeling for all storm events analyzed (10-, 100-, and 500-year). For example, **Figure 6**, below shows the comparison of 100-year floodplains between the existing Spring Creek 2D BLE study and Fathom Scenario 3. Since the existing 2D BLE flood extents are larger than Fathom Scenario 3, this is an area where Fathom Scenario 3 could not be utilized per the TWDB's guidance and the San Jacinto RFPG's expectations regarding future flood risk.

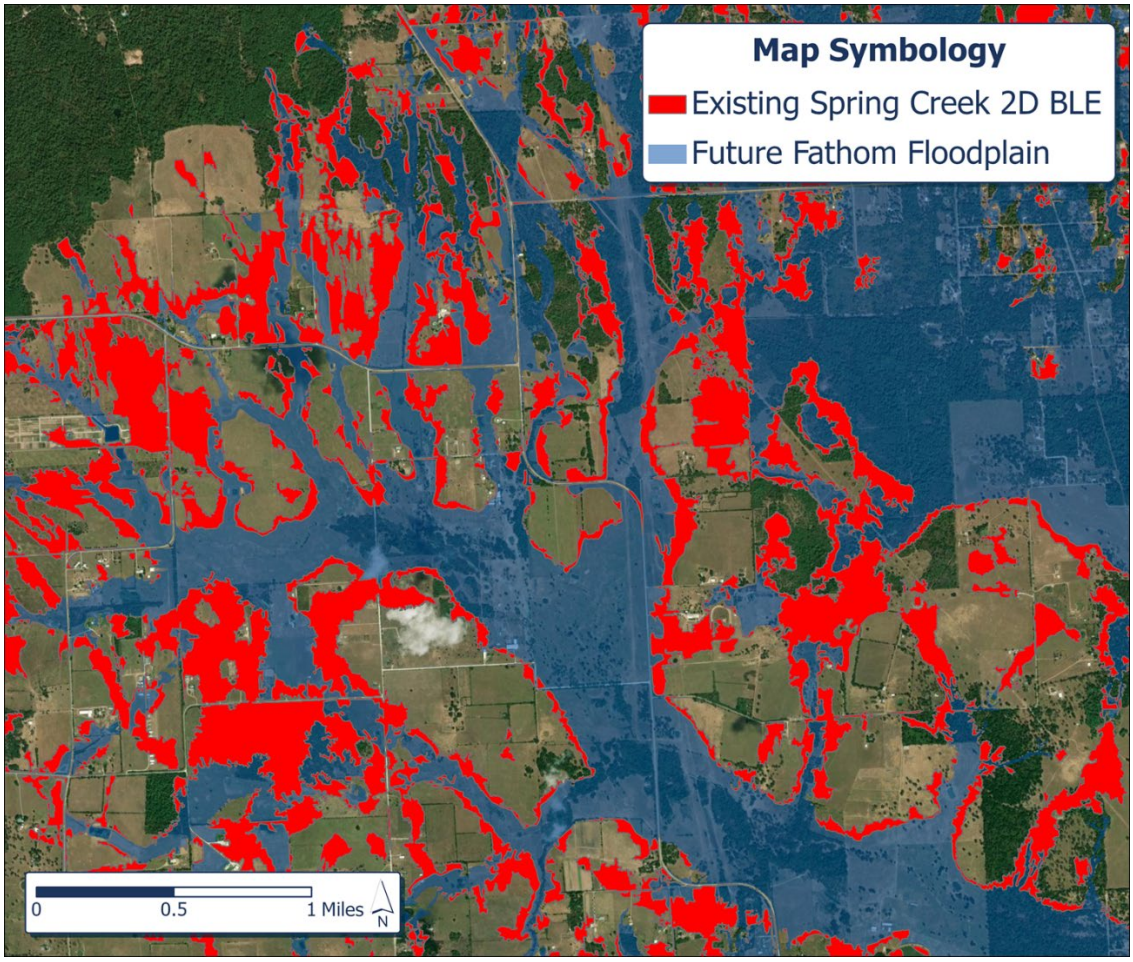

Figure 6: 100-year Floodplain Comparison between Spring Creek 2D BLE and Fathom Scenario 3 (Combined Peril)

Therefore, the San Jacinto RFPG proposed to modify more detailed existing hydrologic and hydraulic models to characterize future flood risk. Pluvial Fathom Scenario 3 will be utilized where pluvial flood risk is not already defined (e.g., in 1D BLE areas). Model prioritization for each zone in the San Jacinto region is outlined below, with the zones outlined in **Figure 7**:

<u>Northern Zone:</u>

1. San Jacinto River Master Drainage Plan future model, simulated with future rainfall
2. 1D West Fork & East Fork San Jacinto River models, vertically buffered
3. Pluvial Fathom Scenario 3

Central Zone:

1. MAAPnext models, simulated with future rainfall
2. 2D Spring Creek BLE model, simulated with future rainfall
3. Pluvial Fathom Scenario 3

Coastal Zone (south and east of Harris County):

1. Chambers FIF simulated with future rainfall
2. 2D GLO models (Clear Creek, Dickinson Bayou, Mustang Bayou), simulated with future rainfall and sea level change
3. 2D West Galveston Bay BLE model, simulated with future rainfall and sea level change
4. Pluvial Fathom Scenario 3

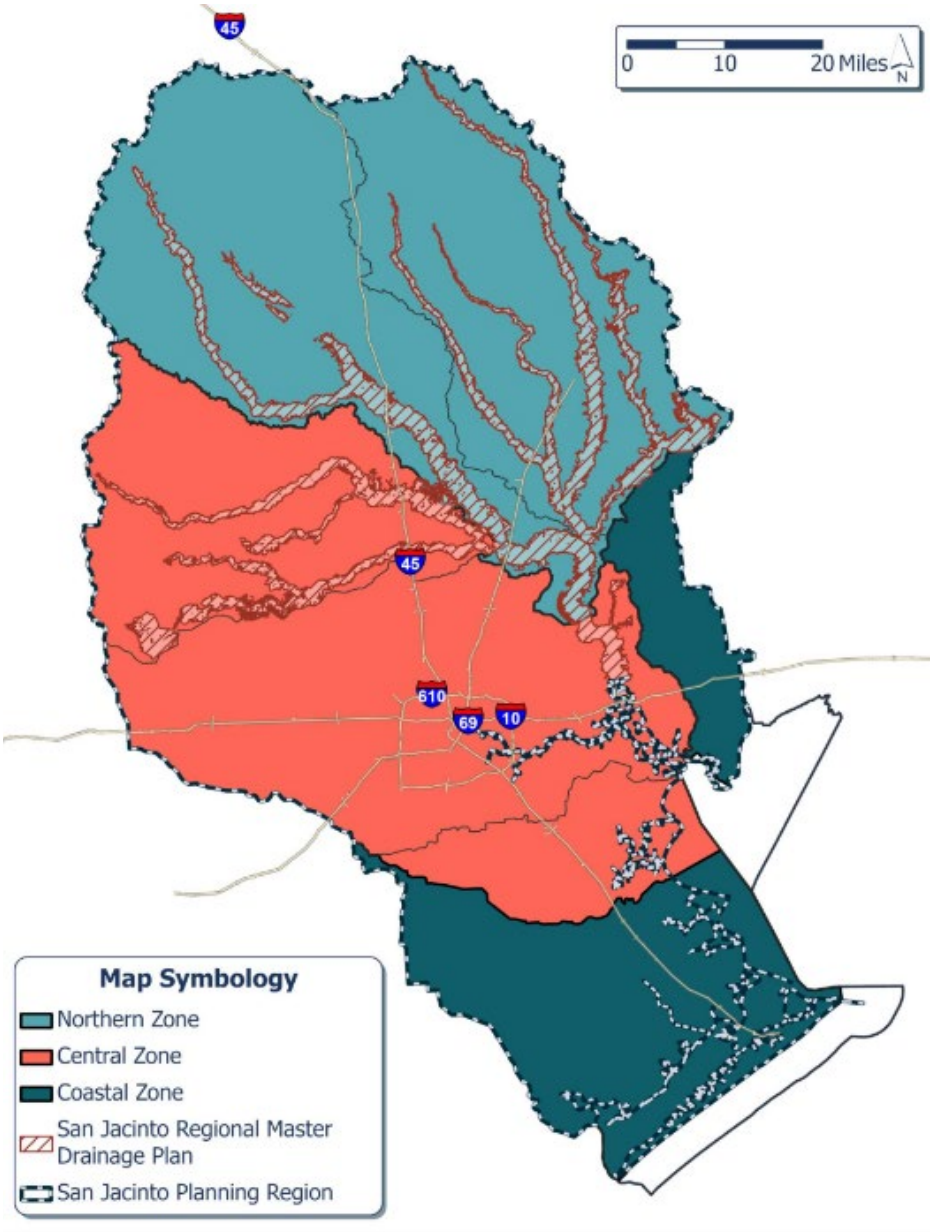

Figure 7: Delineation of Zones used for Future Conditions Analysis

Modification Techniques

Future rainfall is calculated by multiplying existing rainfall by the average pluvial change factor per watershed or model. The TWDB has laid out four (4) scenarios that future condition Fathom models can incorporate. Those four scenarios are outlined in **Table 7**.

Table 7: TWDB Future Conditions Scenarios

Future Scenarios	Future Climate Forcing	Future Subsidence and Land Use
Scenario 1	Minimal	Yes
Scenario 2	Moderate	Yes
Scenario 3	Significant	Yes
Scenario 4	Moderate	No

Scenario 3 represents the "worst case" situation. The Technical Committee of the San Jacinto RFPG determined that Scenario 3 was the most suitable scenario for the San Jacinto region. Therefore, based on Fathom's pluvial change factors, the San Jacinto region expects to see a rainfall increase of approximately 14%.

Sea level rise is applied to the models as an absolute change in the coastal boundary condition. Based on Fathom's coastal change factors, the San Jacinto coast is expected to see sea levels rise by 1.8 to 2.1 feet.

Vertical buffers are calculated as the average increase in water surface elevation between Existing Fathom and Fathom Scenario 3 (combined peril) per HUC-10 watershed and per storm event. The average increases range from 0.20 feet to 0.86 feet.

Figure 8 shows the models modified and used in developing the Future Conditions Flood Hazard Layer.

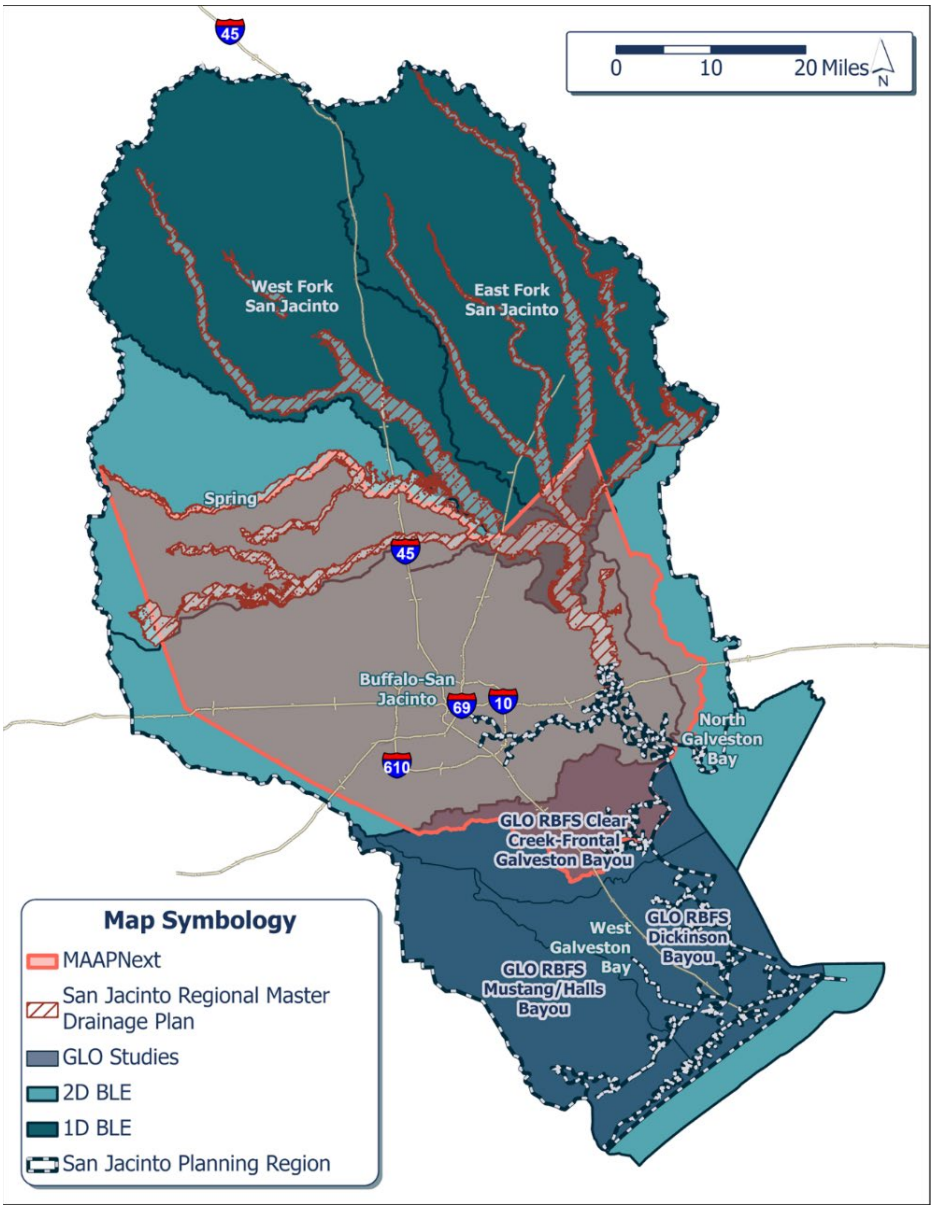

Figure 8: Available Models to be Modified to Future Conditons

Task 2B - Technical Memorandum Deliverables

The following table lists the final supplemental deliverables that are submitted in support of Task 2B.

Table 8: Task 2B Deliverables

Checklist Item #	Deliverable Name	Requirement Reference	Deliverable location
18	FutFldHazard	Exhibit D Table 1	Included in geodatabase digital submittal
19	Map 8	Exhibit C Task 4B Item C	Included in **Appendix 2-B**
20	Map 9	Exhibit C Task 4B Item C	Included in **Appendix 2-B**
21	Fut_Map_Gaps	Exhibit D Table 1	Included in geodatabase digital submittal
22	Map 10	Exhibit C Task 4B Item C	Included in **Appendix 2-B**
23	FutFldExpPol	Exhibit D Table 1	Included in geodatabase digital submittal

Checklist Item #	Deliverable Name	Requirement Reference	Deliverable location
24	FutFldExpLn	Exhibit D Table 1	Included in geodatabase digital submittal
25	FutFldExpPt	Exhibit D Table 1	Included in geodatabase digital submittal
26	FutFldExpAll	Exhibit D Table 1	Included in geodatabase digital submittal
27	Map 11	Exhibit C Task 4B Item C	Included in **Appendix 2-B**
28	Map 12	Exhibit C Task 4B Item C	Included in **Appendix 2-B**

Task 3 – Floodplain Management Practices, Needs Analysis, and Flood Protection Goals

Task 3A – Evaluation and recommendations on Floodplain Management Practices

Task 3A requires the RFPG to "make recommendations regarding forward-looking floodplain management and land use recommendations, and economic development practices and strategies, that should be implemented by entities within the FPR." During the July 2025 Technical Committee meeting, the committee agreed to propose five new recommended floodplain management practices for discussion at the August 2025 San Jacinto RFPG Meeting. During the August and September 2025 San Jacinto RFPG Meetings, feedback was solicited on the existing and proposed recommended floodplain management practices. During the November 13, 2025 San Jacinto RFPG meeting, the San Jacinto RFPG voted to continue to recommend 3 minimum standards, update 5 minimum standards from the first cycle, and recommend 5 new minimum standards for a total of 13 minimum standards recommended. **Table 9** includes the finalized recommended minimum floodplain management practices by the San Jacinto RFPG.

Table 9: Recommended Minimum Floodplain Management Standards

Minimum Standard to Recommend	Definition
Participation in the National Flood Insurance Program (NFIP)	• All regulatory entities to implement ordinances that meet minimum requirements per the NFIP • All regulatory entities to remain active NFIP participants in good standing • All regulatory entities to participate in the Community Rating System (CRS) Program to reduce flood insurance rate premiums across the region.
Development of No Adverse Impact Policies	• All regulatory entities to define a no adverse impact policy. • The no adverse impact policy should be focused on preventing negative impacts. Evaluation of impacts should be completed using best available hydrologic and hydraulic modeling, where appropriate.

Minimum Standard to Recommend	Definition
Establish Minimum Finished Floor Elevations	• All new habitable structures shall have a finished floor elevation established at or above or waterproofed to the FEMA effective 0.2% ACE flood elevation as shown on effective FIRMs except in areas designated as coastal flood zones. • Where regulatory mapping has been updated using Atlas 14 or newer rainfall data, all new habitable structures shall have a finished floor elevation established at or above or waterproofed to the FEMA effective 1.0% ACE flood elevation as shown on effective FIRMs except in areas designated as coastal flood zones. • In areas designated as coastal flood zones, all new habitable structures shall have a finished floor elevation established at or above or waterproofed to the FEMA effective 1.0% ACE flood elevation as shown on effective FIRMS plus 1 foot of freeboard. • All new critical facilities shall have a finished floor elevation established at or above or waterproofed to the FEMA effective 0.2% ACE flood elevation as shown on effective FIRMs plus 2 feet of freeboard except in areas designated as coastal flood zones. • Where regulatory mapping has been updated using Atlas 14 or newer rainfall data, all new critical facilities shall have a finished floor elevation established at or above or waterproofed to the FEMA effective 1.0% ACE flood elevation as shown on effective FIRMs plus 2 feet of freeboard except in areas designated as coastal flood zones. • In areas designated as coastal flood zones, all new critical facilities shall have a finished floor elevation established at or above or waterproofed to the FEMA effective 1.0% ACE flood elevation as shown on effective FIRMS plus 2 feet of freeboard.
Encourage Use of Best Available Data	• Utilize the latest rainfall data, NOAA Atlas 14 or newer rainfall data, when conducting new analyses, designing drainage infrastructure, or developing regulations and criteria.
Compensatory Storage Requirements in the 1.0% ACE Floodplain	• Any reduction in floodplain storage or conveyance capacity within the 1.0% ACE regulatory floodplain must be offset with a hydraulically equivalent (one-to-one) volume of mitigation sufficient to offset the reduction, except in areas identified as coastal flood zones. • A full hydrologic and hydraulic analysis should be performed to demonstrate that floodplain fill mitigation provided is sufficient.
Compensatory Storage Requirements in the 0.2% ACE Floodplain	• Any reduction in floodplain storage or conveyance capacity within the 0.2% ACE regulatory floodplain must be offset with a hydraulically equivalent (one-to-one) volume of mitigation sufficient to offset the reduction, except in areas identified as coastal flood zones. • A full hydrologic and hydraulic analysis should be performed to demonstrate that floodplain fill mitigation provided is sufficient.
Development of Detailed Hydrologic and Hydraulic Analysis Criteria/Requirements	• All regulatory entities to develop hydrologic and hydraulic modeling criteria or requirements. • All regulatory entities to identify features of a proposed development that would warrant a full hydrologic and hydraulic analysis.
Incentivizing the Preservation of the Floodplain	• All regulatory entities to explore and develop systems for incentivizing the preservation of the floodplain directly within the regulatory floodplain or within 100 feet of the banks of unstudied streams.
Nature-Based Solutions	• All regulatory entities to adopt criteria for design of nature-based solutions for drainage infrastructure and stormwater quality management. TWDB's nature-based solutions guidance manual should be referenced when adopting criteria. • All regulatory entities to establish criteria that would require new construction to incorporate, or minimally consider, nature-based solutions in design of drainage infrastructure and mitigation.

Minimum Standard to Recommend	Definition
Operations & Maintenance	• All flood-related authorities who own and operate drainage infrastructure to create a maintenance plan for those assets to manage and reduce future replacement costs. • All flood-related authorities who own and operate drainage infrastructure to develop and maintain an asset management plan, including GIS dataset of assets, to support maintenance of infrastructure. Datasets to leverage infrastructure toolkit that has been prepared by the TWDB to improve the assessment of drainage infrastructure condition and functionality.
Property Acquisition Program	• All regulatory entities to develop property acquisition program for repetitive loss structures.
Flood Warning System	• All regulatory entities to develop flood warning system for public awareness.
Hazard Mitigation Plan	• All regulatory entities to develop and maintain a Hazard Mitigation Plan to help prepare for, respond to, and recover from flood events and maximize funding eligibility for disaster recovery funding.

Task 3A - Technical Memorandum Deliverables

The following table lists the final supplemental deliverables that are submitted in support of Task 3A.

Table 10: Task 3A Deliverables

Checklist Item #	Deliverable Name	Requirement Reference	Deliverable location
29	ExFldMng	Exhibit D Table 1	Included in geodatabase digital submittal

Task 3B – Flood Mitigation Needs Analysis

In compliance with Exhibit C, Section 2.4.B - Task 4B, Item 1, Attachment F, this section summarizes locations within the San Jacinto region that have the greatest flood risk and flood risk reduction needs. Associated maps are also referenced at this end of this section. Task 3B of the Scope of Work for the development of the RFP requires RFPGs to "Identify locations within the [Region] that the RFPG considers to have the greatest flood mitigation and flood risk study needs". According to the TWDB Technical Guidelines for Regional Flood Planning (Exhibit C), gaps in flood risk information should be identified as "flood prone areas with poorly defined or inadequate flood risk information to the extent that it would prevent the RFPG from identifying potentially feasible FMSs and/or FMPs to mitigate flood risks." To fulfill this requirement and identify these areas, the San Jacinto RFPG evaluated a range of factors outlined in TWDB guidance. The guidance and factors are summarized in **Table 11**. The results of this task help guide the subsequent Task 4A effort of identifying potential FMXs by highlighting:

- The areas with the greatest gaps in flood risk knowledge that should be considered for potential FMEs.
- The areas of greatest known flood risk and flood mitigation need that should be considered for implementation of potentially feasible FMSs and FMPs.

Table 11: TWDB Guidance and Factors Considered for the Needs Analysis

Needs	Guidance	Factors to Consider
Areas with Map Gaps	1. Availability of H&H models	• No BLE or Zone A FEMA floodplain mapping • Age of maps
	2. Availability of flood risk maps	
	3. Existing modeling analysis	• Master Drainage Plans • Watershed planning studies • Hazard Mitigation Plan
Areas with highest flood risk	4. Areas most prone to flooding that threaten life and property	• Floodplain areas • Number of structures • Agricultural areas • Roadway miles • Roadway stream crossings • Critical facilities
	5. Flood management practices	• Participation in NFIP • Presence of Drainage Criteria Manual • Presence of Higher Floodplain standards • Community's CRS Score • Rating of practices • Level of enforcement • Higher standards adopted
	6. Areas with emergency need	• Repetitive loss (RL)/Severe RL • Critical facilities in 0.2% floodplain • Hurricane evacuation routes
	7. Identified and evaluated plans	• Reviewing FMP list from previous cycle
Areas with highest flood risk	8. Historic events	• Number of FEMA claims • Damage of FEMA claims • Areas where there is a flood-related disaster declaration
	9. Implemented FMPs	• Areas with construction projects compared to areas without
	10. Other Factors deemed relevant by the San Jacinto RFPG	• Social Vulnerability Index (SVI) • Nighttime population density

The following process was presented informally to members of the Technical Committee and public present on October 15, 2025. Although a quorum was not present, feedback was solicited and incorporated. The process was formally presented and approved by the San Jacinto RFPG on November 13, 2025. A total of 10 data categories with 28 subcategories were used in the geospatial assessment. A scoring system was determined for each data category based on the statistical distribution of the data, with an effort made to evenly distribute the number of

HUCs with each score within a certain category to differentiate HUCs in the identification of higher need areas. The process for analyzing flood mitigation needs was as follows:

1. Determined data categories with subcategories and scores.
2. Divided the San Jacinto region into watersheds using HUC-12 boundaries, with adjustments for coastal areas to maintain consistent averages for watershed sizes.
3. Evaluated watersheds based on the categories to create a score per category per watershed.
4. Generated two composite scores per watershed: one for knowledge gaps and one for flood risk need.

The data used to score each subcategory was primarily sourced from previous tasks, including Task 1, Task 2A, Task 2B, and Task 3A. Likewise, the results of this task will directly inform Task 4A by supporting the identification of new potential FMXs within the San Jacinto region.

Task 3B - Technical Memorandum Deliverables

The following table lists the final supplemental deliverables that are submitted in support of Task 3B.

Table 12: Task 3B Deliverables

Checklist Item #	Deliverable Name	Requirement Reference	Deliverable location
30	Description and Summary of areas the RFPG considers having greatest flood mitigation and flood risk study needs	Exhibit C Task 4B Item F	Detailed **above**
31	Map 14	Exhibit C Task 4B Item F	Included in **Appendix 4-E** (also referenced in Task 4B deliverables)
32	Map 15	Exhibit C Task 4B Item F	Included in **Appendix 3-B**
33	Map 16	Exhibit C Task 4B Item F	Included in **Appendix 3-B**

Task 3C – Flood Mitigation and Floodplain Management Goals

In compliance with Exhibit C, Section 2.4.B - Task 4B, Item 1, Attachment G, this section details the flood mitigation and floodplain management goals adopted by the San Jacinto RFPG per §361.37. Task 3C of the Scope of Work for the development of the RFP requires the San Jacinto RFPG to "identify specific and achievable flood mitigation and floodplain management goals along with target years by which to meet those goals for the flood planning region." The San Jacinto RFPG adopted the updated first cycle goals as well as the addition of two new goals (06-20-0000000016 and 06-20-0000000017) by a simple majority of voting members present at its planning committee meeting held on September 11, 2025. Additionally, one final goal (06-20-0000000018) was adopted by the San Jacinto RFPG at the planning committee meeting held on November 13, 2025.

The overarching goal of all RFPs is to protect against the loss of life and property. Identifying SMART goals (Specific, Measurable, Attainable, Relevant, and Time-bound) will allow the San Jacinto RFPG to track progress toward reducing flood risk to life and property in the San Jacinto region. To help guide the overall approach and recommendations in the plan, every project, evaluation, and strategy to mitigate flood risk identified will be associated with adopted and defined goals.

During the August 2025 San Jacinto RFPG meeting, updates to the data requirements of goals were presented. These updates included the addition of defining Goal Themes, Status of Goals, and Precent Complete which help identify progress. During the meeting, progress towards these 1st cycle goals was also presented to the group.

Additionally, San Jacinto RFPG feedback was solicited at both the July 2025 Technical Committee meeting and the August San Jacinto RFPG meeting, where 2 new goals were proposed to be adopted for the second cycle. The goals were developed by both the San Jacinto RFPG Technical Committee and the full San Jacinto RFPG. Throughout the goal development process, the Technical Committee, San Jacinto RFPG members, and members of the public were able to provide feedback and comments during multiple public meetings as well as direct comments to the Technical Consultant. **Appendix 3-C** displays the complete list of the floodplain management goals for this cycle of the RFP.

Task 3C - Technical Memorandum Deliverables

The following table lists the final supplemental deliverables that are submitted in support of Task 3C.

Table 13: Task 3C Deliverables

Checklist Item #	Deliverable Name	Requirement Reference	Deliverable location
34	Goals feature class	Exhibit D Table 1	Included in geodatabase digital submittal
35	Table 11: Goals	Exhibit C Task 4B Item G	Included in **Appendix 3-C**

Task 4 – Assessment and identification of flood mitigation needs

Task 4A - Identification and evaluation of potential flood management evaluations and potentially feasible flood management strategies and flood mitigation projects

Identification

In compliance with Exhibit C, Section 2.4.B - Task 4B, Item 1, Attachment H, this section documents the process used by the Technical Consultant and the San Jacinto RFPG to identify potentially feasible FMPs and FMSs. The first step in identifying potential FMEs, FMSs, and FMPs (FMXs) began with conducting research on stakeholder input and publicly available data. Most projects identified thus far are primarily sourced from publicly available data. As communication with stakeholders has begun over Task 4C, the San Jacinto RFPG has leveraged these meetings to also inform stakeholders of the Regional Flood Planning process and has begun soliciting FMXs. However, most FMXs identified thus far have stemmed from reviewing publicly available data, such as previous flood studies, drainage master plans, and Hazard Mitigation Plans (HMPs).

The list of potentially feasible FMXs will continue to be compiled based on contributions from the San Jacinto RFPG, stakeholder outreach, and from sources such as previous flood studies, drainage master plans, HMPs, bond programs, Capital Improvement Plans (CIPs), Flood Infrastructure Fund (FIF) Applications, Community Development Block Grant Mitigation Program (CDBG-MIT) Applications, Building Resilient Infrastructure and Communities (BRIC) Applications, and other references as applicable.

The Flood Mitigation Needs Analysis performed in Task 3B will be used to supplement the actions identified in the public information research. The process for evaluating the greatest flood mitigation and flood risk study needs is documented in Chapter **Task 3B – Flood Mitigation Needs Analysis**. Generally, Task 3B will guide the evaluation of potential actions by highlighting the areas with the greatest gaps in flood risk knowledge that should be considered for potential FMEs and the areas of greatest known flood risk and flood mitigation needs that should be considered for implementation of potentially feasible FMSs and FMPs.

Feasibility Assessment

After conducting an initial search, approximately 410 potential actions were identified from coordination with stakeholders and reviewing publicly available data thus far. In general, actions identified that were not related to flooding or flood risk were omitted from further consideration in the assessment. Various actions that lacked direct flood risk reduction but had some relation to flooding, storms or hazard preparedness were included but were classified as infeasible. Additionally, if the source classified an action as low priority, the action was not considered for further assessment. This ensures that the highest priority actions take funding precedence for each community.

Actions pulled for this cycle were all proposed after 2020, ensuring that all of the potential models use the latest-available rainfall data, NOAA Atlas 14. The actions proposed prior to 2020 are currently considered to be infeasible due to the additional effort required to adequately evaluate these actions using the latest data.

The secondary criterion for evaluating the feasibility of an identified FMS or FMP was whether the action had a broad or undefined scope or was lacking in sufficient detail. The level of detail required to be considered feasible was defined by the FME/FMS/FMP table requirements outlined in the *Technical Guidelines.* For example, actions are required to have a brief description and a potential sponsor entity, as well as other required data.

The third criterion for evaluating the feasibility of an identified action involved considering whether the size of the proposed action was appropriate for inclusion in the RFP. Actions with a contributing drainage area less than or equal to one square mile were considered to be infeasible at this time in accordance with the *Technical Guidelines*.

The fourth criterion for evaluating the feasibility of an identified action involved considering projects that had either not documented funding sources, or listed TWDB or any other general grant funding opportunities. This was done in order to document the projects that sponsors intend on pursuing TWDB funding for and remove the projects that communities have plans to fund with other opportunities, whether that be through local or other funding opportunities, such as FEMA.

The preliminary feasibility assessment yielded approximately 90 potentially feasible actions. The San Jacinto RFPG will continue to refine this list and the approach to defining feasibility as the RFP process progresses through coordination with regional stakeholders, continued data collection efforts and coordination with the GLO *Combined River Basin Central Region Study*, and as the Task 3B needs analysis is finalized as well as Task 4C performance of flood management evaluations. Additional funding allocated to the regional flood planning effort will also be used to evaluate FMEs in order to develop and identify FMPs. The overarching goal of the feasibility assessment, at this time, is to distill the initial list of collected actions to help focus the effort of the San Jacinto RFPG towards the inclusion and recommendation of FMEs/FMSs/FMPs in Task 5.

Classification

Once potential flood risk reduction actions are identified, the Technical Consultant will perform an initial classification to sort actions into an appropriate category. The *Scope of Work* and *Technical Guidelines* require FMSs and FMPs to be developed at a sufficient level of detail (no negative impact, quantitative reporting of estimated benefits, detailed Hydrology and Hydraulic modeling, etc.) to be included in the RFP. Generally, FMEs will be recommended for remaining areas with potential flood risk and exposure that do not have a corresponding flood risk reduction action or for FMSs and FMPs that do not meet requirements for inclusion. The classification process shown below in **Figure 9** was developed by the Technical Consultant based on the requirements in the *Scope of Work* and *Technical Guidelines.* The classification of actions are preliminary classifications and are by no

means final. As additional data is collected from regional stakeholders and through efforts made possible by the additional funding allocation, classifications may be subject to change.

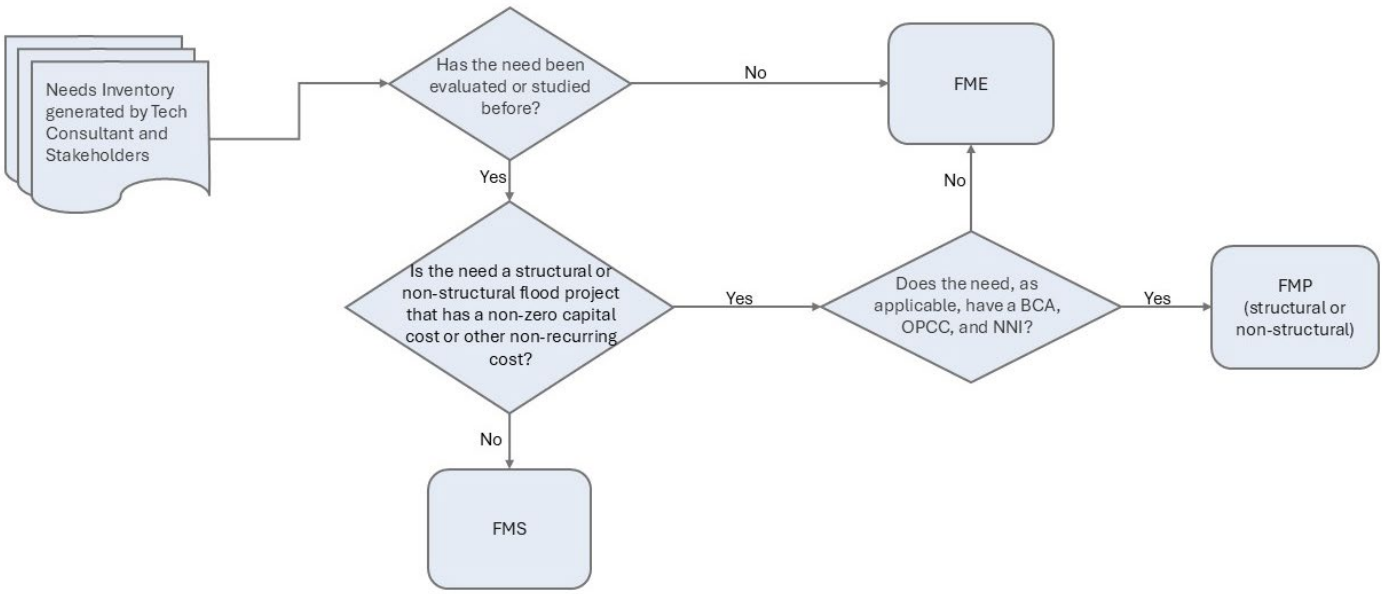

Figure 9: Flood Risk Reduction Action Classification Process

The Technical Consultant and San Jacinto RFPG will seek to identify and recommend a comprehensive list of potential flood risk reduction actions for inclusion in the RFP (not in the Technical Memorandum). All recommended actions will be required to meet the requirements outlined in the *Technical Guidelines*. However, some potential actions that meet these baseline requirements may not be appropriate for recommendation. While this is not a comprehensive list, some potential reasons a project may not be recommended in Task 5 include:

- Action does not align with the flood mitigation goal(s) adopted by the San Jacinto region and/or the guidelines and principles set forth by the state.
- Action duplicates the benefits of other included or recommended action(s).
- Action cannot obtain a Memorandum of Understanding or other form of concurrence from impacted entities.
- Sponsor has indicated they do not intend to pursue funding for the action.
- Action does not demonstrate a sensible benefit-cost ratio or other similar metrics.
- Public input regarding the action demonstrates a need for further evaluation or consensus building with regional stakeholders.
- Action does not receive a simple majority vote from a quorum of the San Jacinto RFPG members.

Additionally, there may be effort to reclassify FMX types following further coordination with sponsors to confirm project details, including available data and the sponsor's goals of the projects.

Potential FMEs and Potentially Feasible FMSs and FMPs

The process of drafting the list of potential FMEs and potentially feasible FMSs and FMPs has been described in the sections above. In compliance with Exhibit C, Section 2.4.B - Task 4B, Item 1, Attachment I, the list of potential FMEs and potentially feasible FMPs and FMSs have been provided in **Appendix 4-A**, **Appendix 4-B**, and **Appendix 4-C**, respectively.

Task 4A - Technical Memorandum Deliverables

The following table lists the final supplemental deliverables that are submitted in support of Task 4A.

Table 14: Task 4A Deliverables

Checklist Item #	Deliverable Name	Requirement Reference	Deliverable location
36	Documented process used by RFPG to identify potentially feasible FMSs and FMPs	Exhibit C Task 4B Item H	Section **Task 4A - Identification and evaluation of potential flood management evaluations and potentially feasible flood management strategies and flood mitigation projects**
37	Streams	Exhibit D Table 1	Included in geodatabase digital submittal
38	Potential FMEs	Exhibit C Task 4B Item I	Included in **Appendix 4-A**
39	FME	Exhibit D Table 1	Included in geodatabase digital submittal
40	Potential FMPs	Exhibit C Task 4B Item I	Included in **Appendix 4-B**
41	FMP	Exhibit D Table 1	Included in geodatabase digital submittal
42	Potential FMSs	Exhibit C Task 4B Item I	Included in **Appendix 4-C**
43	FMS	Exhibit D Table 1	Included in geodatabase digital submittal

Task 4B - Preparation and submission Technical Memorandum

In compliance with Exhibit C, Section 2.4.B - Task 4B, Item 1, Attachment B, this section outlines previous and ongoing flood studies considered relevant to the development of the RFP. Several types of previous flood studies were considered to be relevant to development of the RFP including: Flood Insurance Studies and Base Level Engineering performed by FEMA, Large Watershed Studies, Hazard Mitigation Action Plans, Master Drainage Plans, and Capital Improvement Plans. The list of relevant previous flood studies can be found in Table 15**.**

Table 15: Previous Flood Studies

Flood Study	Sponsor	Study Area	Date
2017 Brazoria County Hazard Mitigation Action Plan	Brazoria County	Brazoria County	2018
Brazoria County Drainage District 5 Hazard Mitigation Plan	Brazoria County Drainage District 5	Brazoria County Drainage District No. 5	2020
Chambers County Master Drainage Plan	Chambers County	Chambers County	2014
Chambers County Hazard Mitigation Plan	Chambers County, Texas A&M AgriLife, U.S Army Corps of Engineers	Chambers County	2018
City of Arcola Fort Bend County Hazard Mitigation Plan Update	City of Arcola, City of Fresno, Fort Bend County	City of Arcola	
City of Bunker Hill Master Drainage Plan	City of Bunker Hill Village	City of Bunker Hill Village	2017
West Fork San Jacinto River Flood Protection Planning Study	City of Conroe, San Jacinto River Authority, Montgomery County	Montgomery County	2019
City of Galveston Master Drainage Plan	City of Galveston	City of Galveston	2003

Flood Study	Sponsor	Study Area	Date
Chimney Rock Master Drainage Plan	City of Houston	City of Houston	2019
Greater OST Drainage Analysis	City of Houston	City of Houston south of downtown	2021
Pleasantville Drainage Analysis	City of Houston	Pleasantville Neighborhood	2020
City of Houston Hazard Mitigation Plan Update 2018	City of Houston, Harris County Flood Control District	City of Houston	2018
Kingwood Drainage Analysis	City of Houston, Harris County Flood Control District	Kingwood Neighborhood	2020
City of Huntsville Drainage Study	City of Hunstville	City of Huntsville	2016
City of Manvel Master Drainage Plan	City of Manvel	City of Manvel	2014
City of Pearland, Texas Hazard Mitigation Plan	City of Pearland	City of Pearland	2019
City of Pearland Master Drainage Plan	City of Pearland, Brazoria County Drainage District 4	City of Pearland	2018
City of Tomball Master Drainage Plan	City of Tomball	City of Tomball	2014
Brazoria County Flood Insurance Study	FEMA	Brazoria County	2020
Chambers County Flood Insurance Study	FEMA	Chambers County	2018
Fort Bend County Flood Insurance Study	FEMA	Fort Bend County	2021
Galveston County Flood Insurance Study	FEMA	Galveston County	2019
Grimes County Flood Insurance Study	FEMA	Grimes County	2012
Harris County Flood Insurance Study	FEMA	Harris County	2019
Liberty County Flood Insurance Study	FEMA	Liberty County	2018
Montgomery County Flood Insurance Study	FEMA	Montgomery County	2014
San Jacinto County Flood Insurance Study	FEMA	San Jacinto County	2018
Walker County Flood Insurance Study	FEMA	Walker County	2011
Waller County Flood Insurance Study	FEMA	Waller County	2019
East Fork San Jacinto 1D Base Level Engineering	FEMA	East Fork San Jacinto	2018
West Fork San Jacinto 1D Base Level Engineering	FEMA	West Fork San Jacinto	2018
Fort Bend Count Hazard Mitigation Plan Update	Fort Bend County, Fort Bend CISD, Various Cities in the County	Fort Bend County	
Galveston County Multi-Jurisdiction Hazard Mitigation Plan	Galveston County	Galveston County	
Grimes County Hazard Mitigation	Grimes County	Grimes County	2018
Addicks Tributary Watershed Planning Study	Harris County Flood Control District	Addicks Watershed	
Armand Bayou Watershed Planning Project	Harris County Flood Control District	Armand Bayou Watershed	2021
Brookglen Flooding Mitigation Analysis	Harris County Flood Control District	Harris County	
Carpenters Bayou Watershed Planning Project	Harris County Flood Control District	Carpenters Bayou Watershed	2021
Cedar Bayou Flood Risk Reducing Study	Harris County Flood Control District	Cedar Bayou Watershed	

Flood Study	Sponsor	Study Area	Date
Cypress Creek Overflow Management Plan	Harris County Flood Control District	Cypress Creek Watershed	2015
Galveston Bay Watershed Planning Project	Harris County Flood Control District	Galveston Bay Watershed	2021
Goose Creek Watershed Planning Project	Harris County Flood Control District	Goose Creek Watershed	2021
Huffman Drainage Analysis	Harris County Flood Control District	Huffman Neighborhood	
Inwood Forest Stormwater Detention Basin	Harris County Flood Control District	Inwood Forest Neighborhood	
Jackson Bayou Watershed Planning Project	Harris County Flood Control District	Jackson Bayou Watershed	2021
Luce Bayou Watershed Planning Project	Harris County Flood Control District	Luce Bayou Watershed	2021
Spring Creek Watershed Planning Project	Harris County Flood Control District	Spring Creek Watershed	2021
Spring Gully Watershed Planning Project	Harris County Flood Control District	Spring Gully Watershed	2021
Study of the Feasibility of Construction Storm Water Conveyance Tunnels	Harris County Flood Control District	Harris County	2019
Vince Bayou Watershed Planning Project	Harris County Flood Control District	Vince Bayou Watershed	2021
Willow Creek Watershed Planning Project	Harris County Flood Control District	Willow Creek Watershed	2021
Saltwater Ditch Drainage Study	Harris County Flood Control District	Sims Bayou Watershed	2020
Little Cypress Creek Master Drainage Plan	Harris County Flood Control District	Little Cypress Creek Watershed	2018
San Jacinto River Regional Watershed Master Drainage Plan	Harris County Flood Control District, Montgomery County, San Jacinto River Authority, City of Houston	Lake Houston Watershed	2020
Harris County All Hazard Mitigation Plan	Harris County, Harris County Flood Control District	Harris County	
City of Bellaire Flood Hazard Mitigation Report	Harris County, Harris County Flood Control District, US Army Corps of Engineers	City of Bellaire	
Lower Clear Creek & Dickinson Bayou Flood Protection Plan	League City, Harris County Flood Control District	Lower Clear Creek Watershed	2021
Liberty County Hazard Mitigation Plan	Liberty County, Texas A&M AgriLife	Liberty County	2017
Missouri City Master Drainage Plan	Missouri City	Missouri City	2021
Montgomery County Hazard Mitigation Plan	Montgomery County	Montgomery County	
Coastal Texas Protection and Restoration Feasibility Study	USACE, Texas General Land Office	Texas Gulf Coast	2021
Walker County Hazard Mitigation Plan	Walker County	Walker County	
Upper Barker Flood Protection Planning Study	Waller County	Waller County	2014

Flood Study	Sponsor	Study Area	Date
Upper Cypress Flood Protection Planning Study	Waller County	Upper Cypress Creek Watershed	2012
Waller County Hazard Mitigation Plan	Waller County	Waller County	
Chambers County Flood Infrastructure Fund Study	Chambers County	Chambers County	2025
MAAPnext	Harris County Flood Control District	Harris County	Not Published
GLO Central Region River Basin Flood Study	GLO	Mustang/Halls Bayou, Clear Creek, Dickinson Bayou	2025
West Galveston Bay 2D Base Level Engineering	FEMA	West Galveston Bay	2021
Spring 2D Base Level Engineering	FEMA	Spring	2022
North Galveston Bay 2D Base Level Engineering	FEMA	North Galveston Bay	2022
Buffalo-San Jacinto 2D Base Level Engineering	FEMA	Buffalo-San Jacinto	
Houston Stormwater Master Plan	City of Houston	City of Houston	2024
City of Alvin 2025 Hazard Mitigation Plan Update	City of Alvin	City of Alvin	2025
Brazoria County Hazard Mitigation Plan	Brazoria County	Brazoria County	2023
Chambers County 2024 Hazard Mitigation Plan Update	Chambers County	Chambers County	2024
Fort Bend County Hazard Mitigation Action Plan	Fort Bend County	Fort Bend County	2023
Fort Bend County Levee Improvement District No. 7 Stormwater Pump Station Site Location Alternatives Analysis	Fort Bend County	Fort Bend County	2020
City of Galveston Hazard Mitigation Plan	City of Galveston	City of Galveston	2022
Grimes Hazard Mitigation Action Plan Update	Grimes County	Grimes County	2023
Harris County Multi-Hazard Mitigation Action Plan Progress	Harris County	Harris County	2024
City of Houston Hazard Mitigation Plan Update	City of Houston	City of Houston	2023
City of Kemah Master Drainage Plan	City of Kemah	City of Kemah	2020
City of Manvel Master Drainage Plan Update	City of Manvel	City of Manvel	2022
Master Drainage Plan Update	City of Pearland	City of Pearland	2019
Roman Forest Forward a Community Comprehensive Plan	City of Roman Forest	City of Roman Forest	2025
City of Shenandoah Capital Improvement Plan	City of Shenandoah	City of Shenandoah	2024
PW20-07 Street and Drainage West Preliminary Engineering Report	City of West University Place	City of West University Place	2023
SJRA Flood Management 10-Year Project Plan	SJRA	SJRA	2025
City Of Tomball Drainage Master Plan	City of Tomball	City of Tomball	2025

Flood Study	Sponsor	Study Area	Date
Walker County Hazard Mitigation Plan 2024 Update	Walker County	Walker County	2024
City of West University Place City-Wide Drainage Study	City of West University Place	City of West University Place	2021
City of West University Place West Side Drainage Modeling	City of West University Place	City of West University Place	2024
San Jacinto River Tributaries East of Lake Houston HCFCD Project ID: G103-00-00-P004 HCFCD Bond Program ID: F-111	SJRA	SJRA	2024
City Of Houston Stormwater Master Plan Executive Summary	City of Houston	City of Houston	2024
City of Baytown Hazard Mitigation Action Plan Update Draft	City of Baytown	City of Baytown	2025 Draft
DRAFT Spring Creek Watershed Flood Control Dams Conceptual Engineering Feasibility Study Flood Infrastructure Fund Category 1 Project ID 21-0016	SJRA	SJRA	2025 Draft

Flood Related Models

A geodatabase and associated maps will be provided in the January 2026 submission to identify where existing hydrologic and hydraulic (H&H) models are available to evaluate FMSs and FMPs, as well as identify where there are gaps in available data, as referenced in **Task 3B – Flood Mitigation Needs Analysis**. The San Jacinto RFPG will continue to refine the list of models as the RFP process progresses through coordination with regional stakeholders, continued data collection efforts and coordination with the GLO *Combined River Basin Central Region Study.*

In compliance with Exhibit C, Section 2.4.B - Task 4B, Item 1, Attachment E, this section lists available flood-related models considered most valuable for the RFP development. The list of all identified flood-related models can be found in **Table 16**.

Table 16: Available Flood-Related Models

Model Title	Software	Study Area	Sponsor	Date
Chambers County Master Drainage Plan	HEC-HMS/HEC-RAS	Chambers County	Chambers County	2013
City of Galveston Master Drainage Plan	XPSMM	City of Galveston	City of Galveston	2003
Chimney Rock Master Drainage Plan	XPSWMM	Houston from Westpark Tollway to Brays Bayou	City of Houston	2019
Greater OST Drainage Analysis	XPSWMM	Houston south of downtown	City of Houston	2021
Pleasantville Drainage Analysis	InfoWorks ICM	Pleasantville neighborhood in East Houston	City of Houston	2020
City of Manvel Master Drainage Plan	HEC-HMS/HEC-RAS	City of Manvel, Brazoria County	City of Manvel	2014

Model Title	Software	Study Area	Sponsor	Date
City of Pearland Master Drainage Plan	HEC-HMS/HEC-RAS	City of Pearland, Brazoria County Drainage District 4	City of Pearland and Brazoria County Drainage District 4	2018
Lake Houston Dam Spillway Improvements Project	HEC-HMS/HEC-RAS	Lake Houston	Coastal Water Authority	2022
Brazoria County Flood Insurance Study	HEC-1/HEC-2/HEC-HMS/HEC-RAS/FLOW SIM 10	Fort Bend County	FEMA	2020
Chambers County Flood Insurance Study	HEC-1/HEC-2/HEC-HMS/HEC-RAS/XP-SWMM	Chambers County	FEMA	2018
Fort Bend County Flood Insurance Study	HEC-1/HEC-2/HEC-HMS/HEC-RAS	Fort Bend County	FEMA	2021
Galveston County Flood Insurance Study	HEC-1/HEC-RAS/HEC-2/ADCIRC	Galveston County	FEMA	2019
Grimes County Flood Insurance Study	TR-20/WSP2	Grimes County	FEMA	2012
Harris County Flood Insurance Study	HEC-HMS/HEC-RAS	Harris County	FEMA	2019
Liberty County Flood Insurance Study	HEC-HMS/HEC-RAS/HEC-2/XP-SWMM/SCS WSP-2	Liberty County	FEMA	2018
Montgomery County Flood Insurance Study	HEC-1/HEC-2/HEC-HMS/HEC-RAS	Montgomery County	FEMA	2014
San Jacinto County Flood Insurance Study	HEC-RAS	San Jacinto County	FEMA	2018
Walker County Flood Insurance Study	HEC-1/HEC-RAS	Walker County	FEMA	2011
Waller County Flood Insurance Study	HEC-1/HEC-HMS/HEC-2/HEC-RAS	Waller County	FEMA	2019
Galveston County Master Drainage Study	HEC-RAS/HEC-HMS	Galveston County	Galveston County	2020
Addicks Tributary Watershed Planning Study	HEC-HMS/HEC-RAS	Addicks tributaries within Harris County	Harris County Flood Control District	2021
Armand Bayou Watershed Planning Project	HEC-HMS/HEC-RAS	Armand Bayou tributaries within Harris County	Harris County Flood Control District	2021
Brookglen Flooding Mitigation Analysis	HEC-HMS/HEC-RAS	Harris County	Harris County Flood Control District	2020
Carpenters Bayou Watershed Planning Project	HEC-HMS/HEC-RAS	Carpenters Bayou tributaries within Harris County	Harris County Flood Control District	2021
Cedar Bayou Flood Risk Reduction Study	HEC-HMS/HEC-RAS	Cedar Bayou Watershed	Harris County Flood Control District	2017

Model Title	Software	Study Area	Sponsor	Date
Cypress Creek Overflow Management Plan	HEC-HMS/HEC-RAS	Cypress Creek Watershed; Watersheds that drain to Addicks and Barker	Harris County Flood Control District	2015
Galveston Bay Watershed Planning Project	HEC-HMS/HEC-RAS	Galveston Bay tributaries within Harris County	Harris County Flood Control District	2021
Goose Creek Watershed Planning Project	HEC-HMS/HEC-RAS	Goose Creek tributaries within Harris County	Harris County Flood Control District	2021
Inwood Forest Stormwater Detention Basin	HEC-HMS/HEC-RAS	White Oak Creek, Inwood Forest subdivision	Harris County Flood Control District	2020
Jackson Bayou Watershed Planning Project	HEC-HMS/HEC-RAS	Jackson Bayou tributaries within Harris County	Harris County Flood Control District	2021
Kingwood Drainage Analysis	HEC-HMS/HEC-RAS	Kingwood Neighborhood in the City of Houston	Harris County Flood Control District	2020
Luce Bayou Watershed Planning Project	HEC-HMS/HEC-RAS	Luce Bayou tributaries within Harris County	Harris County Flood Control District	2021
Saltwater Ditch Drainage Study	HEC-HMS/HEC-RAS/XPSWMM	Saltwater ditch in Sims Bayou and surrounding storm sewer	Harris County Flood Control District	2021
Spring Creek Watershed Planning Project	HEC-HMS/HEC-RAS	Spring Creek tributaries within Harris County	Harris County Flood Control District	2021
Spring Gully Watershed Planning Project	HEC-HMS/HEC-RAS	Spring Gully tributaries within Harris County	Harris County Flood Control District	2021
Vince Bayou Watershed Planning Project	HEC-HMS/HEC-RAS	Vince Bayou tributaries within Harris County	Harris County Flood Control District	2021
Willow Creek Watershed Planning Project	HEC-HMS/HEC-RAS	Willow Creek tributaries within Harris County	Harris County Flood Control District	2021
Little Cypress Creek Master Drainage Plan	HEC-HMS/HEC-RAS	Little Cypress Creek Watershed	Harris County Flood Control District	2018
San Jacinto River Regional Watershed Master Drainage Plan	HEC-HMS/HEC-RAS	Lake Houston Watershed	Harris County Flood Control District, Montgomery County, San Jacinto River Authority, City of Houston	2020

Model Title	Software	Study Area	Sponsor	Date
Missouri City Master Drainage Plan	HEC-HMS/HEC-RAS	Missouri City	Missouri City	2020
West Fork San Jacinto River Flood Protection Planning Study	HEC-HMS/HEC-RAS	Lake Conroe and Alligator Creek Watersheds in Montgomery County	San Jacinto River Authority, City of Conroe, Montgomery County	2019
Upper Barker Flood Protection Planning Study	HEC-HMS/HEC-RAS	Waller County near I-10	Waller County	2014
Upper Cypress Flood Protection Planning Study	HEC-HMS/HEC-RAS	City of Waller	Waller County	2012
MAAPnext	HEC-HMS/HEC-RAS	Harris County	Harris County Flood Control District	Not Published Yet
GLO Central Region River Basin Flood Study	HEC-HMS/HEC-RAS	Clear Creek, Dickinson Bayou, Mustang Bayou-Halls Bayou	Texas General Land Office	2025
San Jacinto Regional Watershed Master Drainage Plan	HEC-HMS/HEC-RAS	San Jacinto Regional Watershed	San Jacinto River Authority	2020
Chambers County Flood Infrastructure Fund Study	HEC-HMS/HEC-RAS	Chambers County, Cedar Bayou, SawPit, Staples	Chambers County	2025
1D/2D BLE	HEC-RAS	San Jacinto Region	FEMA	2018

Infeasible FMSs and FMPs

The process of drafting the list of infeasible actions has been described in the **Feasibility Assessment** section. In compliance with Exhibit C, Section 2.4.B - Task 4B, Item 1, Attachment J, the list of infeasible actions has been provided in **Appendix 4-D**.

Task 4B - Technical Memorandum Deliverables

The following table lists the final supplemental deliverables that are submitted in support of Task 4B.

Table 17: Task 4B Deliverables

Checklist Item #	Deliverable Name	Requirement Reference	Deliverable location
16	Map 6	Exhibit C Task 4B Item C	Included in **Appendix 4-E**
31	Map 14	Exhibit C Task 4B Item F	Included in **Appendix 4-E**
44	Infeasible FMS/FMPs	Exhibit C Task 4B Item J	Included in **Appendix 4-D**
45	Model Coverage	Exhibit D Table 1	Included in geodatabase digital submittal
46	List of available flood-related models	Exhibit C Task 4B Item E	Included as **Table 16**
48	Ongoing Flood Studies	Exhibit C Task 4B Item B	Included as **Table 15**
49	Approval from RFPG to submit	Contract	Included in Additional Files Deliverable Folder

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APPENDICES

Appendix 1-A – List of Special District Political Subdivisions

List of Special District Political Subdivisions

Entity	Actively Involved in Flood Planning?
Deep East Texas Council of Governments	Yes
Houston-Galveston Area Council	No
Trinity River Authority of Texas	No
Brazos River Authority	No
Gulf Coast Water Authority	No
Fort Bend County MUD 134 C	No
Cinco Southwest MUD 3	No
Cinco Southwest MUD 2	No
West Keegans Bayou Improvement District	No
Quail Valley Utility District	No
Sienna Plantation LID	No
Chambers County Improvement District 3	No
Gulf Coast Waste Disposal Authority	No
Chambers-Liberty Counties Navigation District	No
Fort Bend County MUD 21	No
Brazos Bend Water Authority	No
Waller County MUD 1	No
Chambers County Improvement District 1	No
Coastal Water Authority	No
Fort Bend County WCID 2	No
Fort Bend County FWSD 2	No
Palmer Plantation MUD 2	No
Thunderbird Utility District	No
Fort Bend County FWSD 1	No
Fort Bend County LID 12	Yes
Burney Road MUD	No
Meadowcreek MUD	No
Fort Bend County MUD 23	No
Phelps SUD	No
North Mission Glen MUD	No
Fort Bend County MUD 2	No
Grand Mission MUD 2	No
Tarkington SUD	No
Fort Bend County MUD 30	No
Grand Mission MUD 1	No
Fort Bend County MUD 45	No
Fort Bend County MUD 131	No
Baytown Area Water Authority	No
Fort Bend County MUD 50	No
Fort Bend County MUD 156	No
Fort Bend County MUD 142	No
Fort Bend County MUD 173	No
Fort Bend County MUD 206	No
Fort Bend County MUD 48	No
Kingsbridge MUD	No
Fort Bend County MUD 189	No

List of Special District Political Subdivisions

Entity	Actively Involved in Flood Planning?
Fort Bend County MUD 182	No
North Fort Bend Water Authority	No
Fulshear MUD 3	No
Fort Bend Coutny MUD 133	No
Brazoria County MUD 70	No
Fort Bend County MUD 141	No
Chambers County MUD 3	No
Waller County MUD 34	No
Liberty County Drainage District	Yes
Brazoria County MUD 77	No
Texas Heritage Parkway ID	No
Waller County WCID 3	No
Chambers County MUD 2	No
Southeast Texas Flood Control District	Yes
Gulf Coast Protection District	Yes
Lower Trinity SWCD # 435	Yes
Polk-San Jacinto SWCD #436	Yes
Walker County SWCD #453	Yes
Navasota SWCD #440	Yes
Trinity Bay SWCD #434	Yes
North Harris County Regional Water Authority	No
Harris County MUD 571	No
West Harris County MUD 5	No
Trail of the Lakes MUD	No
Harris County MUD 458	No
West Harris County MUD 1	No
Sunbelt FWSD	No
East Montgomery County Improvement District	No
Greater East End MGMT District	No
Harris County MUD 200	No
Harris County Improvement District 20	No
Harris County Improvement District 21	No
Harris County Improvement District 5	No
Harris County Improvement District 9	No
Montgomery County MUD 125	No
Brazoria County MUD 57	No
Kickapoo FWSD of Waller County	No
Harris County MUD 393	No
Plum Creek FWSD 1	No
Northwest Harris County MUD 36	No
Galveston County MUD 34	No
Harris County MUD 415	No
Harris County Improvement District 1	No
Brazoria County MUD 29	No
Central Harris County Regional Water Authority	No
Montgomery County MUD 132	No

List of Special District Political Subdivisions

Entity	Actively Involved in Flood Planning?
Harris County MUD 531	No
Harris County MUD 360	No
Harris County MUD 460	No
Magnolia Woods MUD 1	No
Galveston County MUD 61	No
Galveston County MUD 62	No
Galveston County MUD 63	No
Harris County MUD 319	No
Harris County MUD 491	No
Montgomery County MUD 115	No
Harris County MUD 401	No
Harris County WCID 119	No
Harris County MUD 233	No
Harris County MUD 557	No
Magnolia Woods MUD 1	No
Porter SUD	No
Galveston County WCID 1	No
Bauer Landing WCID	No
Harris County MUD 476	No
Harris County MUD 520	No
Harris County MUD 1	No
Harris County MUD 388	No
CNP Utility District	No
Harris County MUD 497	No
Harris County MUD 477	No
West Harris County MUD 11	No
Harris County Improvement District 7	No
Airline Improvement District	No
Montgomery County MUD 161	No
Galveston County MUD 72	No
West Harris County RWA	No
Montgomery County MUD 83	No
Harris County MUD 144	No
Harris County MUD 11	No
Interstate MUD	No
Harris County MUD 104	No
Kleinwood MUD	No
Terranova West MUD	No
Harris County MUD 82	No
Liberty County MUD 6	No
Fort Bend-Waller Counties MUD 2	No
Brazoria County MUD 38	No
Montgomery County MUD 162	No
Montgomery County MUD 163	No
Fort Bend County MUD 57	No
Harris County WCID 96	No

List of Special District Political Subdivisions

Entity	Actively Involved in Flood Planning?
Brazoria County MUD 25	No
Harris County Utility District 16	No
Harris County MUD 439	No
Montgomery County MUD 15	No
Harris County MUD 382	No
Harris County MUD 148	No
Montgomery County MUD 6	No
Harris County MUD 421	No
Cinco MUD 14	No
Fort Bend County MUD 161	No
Roman Forest Consolidated MUD	No
East Montgomery County MUD 13	No
Green Trails MUD	No
Faulkey Gully MUD	No
Emerald Forest Utility District	No
Harris County MUD 536	No
Chambers County Improvement District 2	No
Harris County MUD 502	No
Waller County MUD 9	No
CY Fair Community Improvement District	No
Harris County MUD 503	No
Harris County MUD 518	No
Harris County MUD 525	No
Southern Montgomery County MUD	No
Montgomery County MUD 103	No
Harris County MUD 505	No
Brazoria County MUD 2	No
West Park MUD	No
Harris County MUD 504	No
Montgomery County MUD 107	No
Montgomery County MUD 101	No
Northwest Harris County MUD 32	No
Northeast Harris County MUD 1	No
Harris County MUD 127	No
Harris County MUD 437	No
East Montgomery County MUD 8	No
East Montgomery County MUD 9	No
East Montgomery County MUD 10	No
East Montgomery County MUD 11	No
Montgomery County WCID 1	No
Clear Lake City Water Authority	No
Hardin Store Road MUD 1	No
Chambers-Liberty Counties Improvement District	No
Galveston County MUD 64	No
Brazoria-Fort Bend County MUD 1	No
Harris County MUD 191	No

List of Special District Political Subdivisions

Entity	Actively Involved in Flood Planning?
Cinco Southwest MUD 4	No
Harris County Improvement District 8	No
Harris County Improvement District 13	No
Harris County Improvement District 15	No
Harris County MUD 290	No
Montgomery County MUD 84	No
Chambers County MUD 1	No
Montgomery County MUD 102	No
Harris County MUD 427	No
Harris County MUD 428	No
Harris County MUD 429	No
Galveston County WCID 8	No
Montgomery County MUD 98	No
Montgomery County MUD 94	No
Harris County MUD 572	No
Montgomery County MUD 177	No
East Montgomery County MUD 14	No
Galveston County MUD 65	No
Montgomery County MUD 128	No
Montgomery County MUD 124	No
Montgomery County WCID 3	No
Southeast Montgomery County MUD 1	No
Montgomery County MUD 127	No
Harris County MUD 478	No
Montgomery County MUD 130	No
Luce Bayou PUD	No
Galveston County MUD 54	No
Brazoria County MUD 34	No
Harris County MUD 498	No
Addicks Utility District	No
Brazoria County MUD 31	No
Highland MUD	No
Montgomery County MUD 100	No
Harris County Road Improvement District 2	No
Harris County MUD 499	No
Prestonwood Forest Utility District	No
Montgomery County MUD 104	No
Montgomery County MUD 117	No
Harris County MUD 189	No
Spring West MUD	No
Harris County WCID 132	No
Harris-Waller Counties MUD 2	No
Spring Creek Utility District	No
Westwood Magnolia Parkway Improvement District	No
Blaketree MUD 1 of Montgomery County	No
Harris County MUD 286	No

List of Special District Political Subdivisions

Entity	Actively Involved in Flood Planning?
Harris County MUD 70	No
Brazoria County MUD 3	No
Harris County MUD 186	No
Harris County MUD 257	No
Harris County MUD 231	No
Camfield MUD	No
Harris County MUD 346	No
Montgomery County MUD 85	No
Montgomery County MUD 87	No
Harris County MUD 342	No
Fort Bend County MUD 37	No
Galveston County MUD 13	No
Harris County MUD 19	No
Harris County MUD 6	No
Harris County MUD 69	No
Harris County MUD 535	No
Liberty Lakes FWSD 1	No
Cinco MUD 8	No
Rolling Creek Utility District	No
Harris County MUD 150	No
Harris County Improvement District 16	No
Harris Fort Bend Counties MUD 1	No
Grand Northwest MUD	No
Harris County FWSD 6	No
Windfern Forest Utility District	No
Porter MUD	No
Brazoria County MUD 26	No
Town Center Improvement District	No
Chimney Hill MUD	No
Fort Bend County MUD 199	No
Harris County MUD 368	No
Timberlake Improvement District	No
Harris County WCID 136	No
Grimes County MUD 1	No
Galveston County FWSD 6	No
South Shore Harbor MUD 6	No
Harris County MUD 515	No
Harris County MUD 354	No
Harris County MUD 359	No
Harris County WCID 133	No
Harris County WCID 74	No
Brazoria County MUD 55	No
Harris County WCID 160	No
Harris County MUD 514	No
Harris County MUD 250	No
Cinco MUD 7	No

List of Special District Political Subdivisions

Entity	Actively Involved in Flood Planning?
Harris County MUD 275	No
Fort Bend County MUD 124	No
San Leon MUD	No
Galveston County MUD 3	No
Galveston County MUD 2	No
Galveston County MUD 12	No
Corinthian Point MUD 2	No
Chateau Woods MUD	No
Montgomery County Utility District 3	No
Wood Trace MUD 3	No
River Plantation MUD	No
Flamingo Isles MUD	No
Bayview MUD	No
Bacliff MUD	No
Cinco MUD 9	No
Cinco MUD 6	No
Grand Lakes MUD 4	No
Harris County FWSD 48	No
Harris County Improvement District 12	No
East Plantation Utility District	No
Harris County WCID-Fondren Road	No
Kirkmont MUD	No
Klein PUD	No
Pine Bough PUD	No
Harris County WCID 50	No
Harris County WCID 145	No
Harris County WCID 89	No
Harris County WCID 113	No
League City Improvement District	No
Harris County MUD 321	No
Waller County WCID 2	No
Galveston County MUD 52	No
Cinco Southwest MUD 1	No
Galveston County MUD 68	No
Montgomery County MUD 92	No
Galveston County MUD 46	No
Crosby MUD	No
The Woodlands MUD 1	No
Texas National MUD	No
Roman Forest PUD 4	No
Roman Forest PUD 3	No
New Caney MUD	No
Harris County MUD 463	No
Galveston County MUD 55	No
Galveston County MUD 57	No
Harris County FWSD 52	No

List of Special District Political Subdivisions

Entity	Actively Involved in Flood Planning?
Harris County MUD 370	No
Northwest Harris County MUD 29	No
Weston MUD	No
West Memorial MUD	No
Woodcreek MUD	No
Tara Glen MUD	No
Harris County MUD 468	No
Harris County MUD 454	No
North Park PUD	No
Harris County MUD 537	No
Harris County MUD 154	No
Harris County MUD 261	No
Brazoria County MUD 30	No
Bissonnet MUD	No
Parkway Utility District	No
Montgomery County MUD 99	No
Five Corners Improvement District	No
Harris County Improvement District 10A	No
Horsepen Bayou MUD	No
Post Wood MUD	No
Ponderosa Forest Utility District	No
Brazoria County MUD 16	No
Montgomery County MUD 116	No
Harris County MUD 425	No
Harris County MUD 426	No
Harris County MUD 485	No
Harris County MUD 483	No
Harris County MUD 484	No
Harris County WCID 158	No
Lake MUD	No
Harris County MUD 282	No
H-M-W SUD	No
Harris County MUD 433	No
Harris County MUD 449	No
Clear Brook City MUD	No
Harris County MUD 106	No
Galveston County MUD 30	No
Smith Ridge MUD	No
Harris County MUD 211	No
Galveston County MUD 18	No
Sheldon Road MUD	No
Heatherloch MUD	No
Kings Manor MUD	No
Cypress Forest PUD	No
Harris County WCID 157	No
Brazoria County MUD 36	No

List of Special District Political Subdivisions

Entity	Actively Involved in Flood Planning?
Harris County MUD 167	No
Harris County MUD 271	No
Harris County Improvement District 4	No
Harris County MUD 372	No
Oakmont Public Utility District	No
Harris County MUD 130	No
Grand Lakes MUD 2	No
Grand Lakes WCID	No
Liberty County MUD 7	No
Rolling Fork PUD	No
Southwest Harris County MUD 1	No
Spencer Road PUD	No
Spring Creek Forest PUD	No
Tattor Road MUD	No
Bay Colony West MUD	No
Brazoria County MUD 35	No
Grand Oaks MUD	No
Ricewood MUD	No
Galveston County MUD 44	No
Harris County MUD 173	No
Harris County MUD 239	No
Harris County WCID 99	No
Timber Lane Utility District	No
Harris County MUD 287	No
Harris County MUD 36	No
Fort Bend County MUD 26	No
Harris County MUD 55	No
Harris County MUD 432	No
Harris County MUD 457	No
Harris Fort Bend Counties MUD 5	No
Harris Fort Bend Counties MUD 3	No
Harris County WCID 156	No
Mission Bend MUD 2	No
North Green MUD	No
Galveston County MUD 45	No
Harris County MUD 71	No
Harris County MUD 61	No
Cimarron MUD	No
Intercontinental MUD	No
Montgomery County Utility District 4	No
Northwest Harris County MUD 12	No
Harris County MUD 188	No
Harris County WCID 159	No
Harris County MUD 58	No
Fort Bend County MUD 123	No
Northwest Park MUD	No

List of Special District Political Subdivisions

Entity	Actively Involved in Flood Planning?
Northwest Harris County MUD 21	No
Northwest Harris County MUD 24	No
Northwest Harris County MUD 28	No
Harris County MUD 53	No
Harris County MUD 281	No
Northwest Harris County MUD 5	No
Harris County MUD 451	No
Montgomery County MUD 68	No
West Harris County MUD 2	No
Harris County MUD 371	No
Galveston County MUD 14	No
Harris County MUD 96	No
Harris County MUD 364	No
Harris County MUD 405	No
Harris County MUD 411	No
Brazoria County MUD 6	No
Brazoria County MUD 23	No
Cypress Creek Utility District	No
Northwest Harris County MUD 9	No
Harris County MUD 422	No
Harris County MUD 462	No
Memorial Hills Utility District	No
Harris County MUD 238	No
Harris County MUD 205	No
Harris County MUD 172	No
Harris County MUD 390	No
Harris County MUD 285	No
Harris County WCID 92	No
Fort Bend County MUD 151	No
Richey Road MUD	No
Harris County MUD 280	No
Harris County WCID 110	No
Fallbrook Utility District	No
Harris County MUD 171	No
Forest Hills MUD	No
Harris County MUD 153	No
Harris County MUD 355	No
Montgomery County MUD 18	No
Galveston County MUD 60	No
Galveston County MUD 32	No
Harris County MUD 375	No
Harris County MUD 410	No
Harris County MUD 473	No
Harris County MUD 25	No
Montgomery County MUD 137	No
Harris County WCID 36	No

List of Special District Political Subdivisions

Entity	Actively Involved in Flood Planning?
Montgomery County MUD 138	No
Montgomery County MUD 142	No
Royalwood MUD	No
Baybrook MUD 1	No
Lake Conroe Hills MUD	No
Harris County MUD 452	No
Harris County FWSD 47	No
Montgomery County MUD 7	No
Montgomery County MUD 9	No
Montgomery County MUD 39	No
Harris County MUD 91	No
Harris County MUD 119	No
Harris County MUD 132	No
Harris County MUD 149	No
Harris County MUD 180	No
Reid Road MUD 1	No
Harris County WCID 70	No
Harris County MUD 65	No
Harris County FWSD 1-B	No
Harris County MUD 344	No
Harris County MUD 276	No
Montgomery County MUD 16	No
Martin Creek MUD	No
Galveston County MUD 58	No
Galveston County MUD 43	No
Harris County MUD 185	No
Harris County MUD 389	No
Sagemeadow Utility District	No
Harris County MUD 48	No
Montgomery County MUD 19	No
Harris County MUD 450	No
Galveston County MUD 53	No
Harris County MUD 489	No
Cinco MUD 12	No
Montgomery County MUD 56	No
Montgomery County FWSD 6	No
Harris County FWSD 45	No
Mission Bend MUD 1	No
Memorial MUD	No
Beechnut MUD	No
Mayde Creek MUD	No
Mason Creek Utility District	No
Harris County FWSD 51	No
Harris County MUD 170	No
Harris County MUD 168	No
Harris County MUD 500	No

List of Special District Political Subdivisions

Entity	Actively Involved in Flood Planning?
Memorial Villiages Water Authority	No
Morton Road MUD	No
Harris County MUD 221	No
Langham Creek Utility District	No
Point Aquarius MUD	No
Stanley Lake MUD	No
Galveston County MUD 6	No
Northwest Harris County MUD 20	No
Brazoria County MUD 19	No
Harris Fort Bend Counties MUD 4	No
Harris County MUD 163	No
Harris County MUD 162	No
Harris County MUD 16	No
Harris County MUD 155	No
Harris County MUD 152	No
Harris County MUD 151	No
Harris County MUD 122	No
Harris County MUD 118	No
Harris County MUD 50	No
Harris County MUD 46	No
Harris County MUD 438	No
Harris County MUD 494	No
Harris County MUD 449	No
Harris County MUD 243	No
Harris County MUD 225	No
Harris County MUD 213	No
Harris County MUD 166	No
Harris County MUD 156	No
Harris County MUD 147	No
Harris County MUD 101	No
Northgate Crossing Road Utility District	No
Montgomery County MUD 36	No
Harris County MUD 358	No
Reid Road MUD 2	No
Harris County MUD 49	No
Montgomery County MUD 123	No
Harris County MUD 44	No
Harris County MUD 345	No
Harris County MUD 341	No
Harris County MUD 33	No
Harris County MUD 316	No
Harris County MUD 284	No
Harris County MUD 264	No
Harris County MUD 255	No
Galveston County MUD 29	No
Bilma PUD	No

List of Special District Political Subdivisions

Entity	Actively Involved in Flood Planning?
Harris County MUD 26	No
Harris County MUD 278	No
Rankin Road West MUD	No
Baker Road MUD	No
Jackrabbit Road PUD	No
Louetta Road Utility District	No
North Channel Water Authority	No
Harris County Improvement District 18	No
Harris County FWSD 61	No
Waller County Road Improvement District 1	No
Harris-Liberty Counties MUD 1	No
La Porte Area Water Authority	No
Liberty County MUD 2	No
Liberty County MUD 3	No
Galveston County MUD 35	No
East Montgomery County MUD 4	No
Harris County MUD 404	No
Galveston County MUD 51	No
Harris County MUD 403	No
Pine Foest MUD	No
Pine Village PUD	No
Renn Road MUD	No
Sedona Lakes MUD 1 of Brazoria County	No
Cinco MUD 2	No
Inverness Forest Improvement District	No
Harris County WCID 116	No
Harris County WCID 1	No
West Harris County MUD 6	No
West Harris County MUD 4	No
West Harris County MUD 16	No
West Harris County MUD 14	No
West Harris County MUD 10	No
Spanish Cove PUD	No
Southbend MUD	No
Sequoia Improvement District	No
Robin PUD	No
Northwest Harris County MUD 27	No
Cinco MUD 5	No
Cinco MUD 3	No
Cinco MUD 10	No
Cinco MUD 1	No
Chelford City MUD	No
Blue Ridge West MUD	No
Fort Bend County MUD 53	No
Galveston County WCID 19	No
Harris County MUD 23	No

List of Special District Political Subdivisions

Entity	Actively Involved in Flood Planning?
Harris County MUD 222	No
Harris County MUD 215	No
Harris County MUD 322	No
Harris County MUD 208	No
Harris County MUD 183	No
Harris County MUD 179	No
Northwest Freeway MUD	No
Northwest Harris County MUD 22	No
Northwood MUD 1	No
Clear Creek Forest MUD 2	No
Clear Creek Forest MUD 1	No
El Dorado Utility District	No
Clovercreek MUD	No
Lazy River Improvement District	No
Montgomery County Utility District 2	No
Brazoria County MUD 17	No
Harris County MUD 407	No
Fort Bend County MUD 35	No
Harris County MUD 480	No
Harris County MUD 374	No
The Woodlands Metro Center MUD	No
Harris County MUD 373	No
Harris County MUD 273	No
Harris County MUD 459	No
Nottingham Country MUD	No
Northgate Crossing MUD 1	No
Harris County MUD 81	No
Harris County MUD 62	No
West Harris County MUD 9	No
Westador MUD	No
Harris County WCID 91	No
Harris County Utility District 15	No
Harris County Utility District 14	No
Shasla PUD	No
Harris County WCID 84	No
Fry Road MUD	No
Montgomery County MUD 167	No
Enchanted Place PUD	No
Castlewood MUD	No
Oak Manor MUD	No
Brazoria County MUD 7	No
South Shore Harbor MUD 7	No
Montgomery County MUD 8	No
Harris County MUD 409	No
Harris County MUD 318	No
Harris County MUD 317	No

List of Special District Political Subdivisions

Entity	Actively Involved in Flood Planning?
Spring Meadows MUD	No
Bear Creek MUD	No
Tower Oaks Plaza MUD	No
Old Town Spring Improvement District	No
Cedar Bayou Park Utility District	No
Harris County MUD 217	No
Montgomery County MUD 96	No
Briar Ridge MUD	No
Beltway 8 MUD 3	No
Beltway 8 MUD 2	No
Beltway 8 MUD 1	No
Cypresswood Utility District	No
Cornerstones MUD	No
Clay Road MUD	No
Chelford One MUD	No
Harris County MUD 80	No
Harris County FWSD 27	No
Harris County MUD 63	No
Galveston County WCID 12	No
Grand Lakes MUD 1	No
Harris County MUD 516	No
Harris County MUD 517	No
Harris County MUD 436	No
Far Hills Utility District	No
Montgomery County MUD 86	No
Montgomery County MUD 66	No
Wood Trace MUD 2	No
Wood Trace MUD 1	No
Galveston County MUD 66	No
Aldine PUD	No
Arcadian Gardens MUD	No
Westlake MUD 1	No
Montgomery County MUD 30	No
Montgomery County MUD 38	No
Montgomery County MUD 45	No
Harris County MUD 136	No
Woodcreek Reserve MUD	No
Montgomery County FWSD 7	No
Harris County MUD 43	No
Forests Edge MUD	No
Harris County MUD 306	No
Harris County MUD 327	No
Harris County MUD 8	No
Harris County MUD 366	No
Montgomery County MUD 111	No
Montgomery County MUD 164	No

List of Special District Political Subdivisions

Entity	Actively Involved in Flood Planning?
Harris County WCID 163	No
Waller County MUD 17	No
Northwest Harris County MUD 19	No
Harris County MUD 220	No
Cypress Hill MUD 1	No
Fort Bend County MUD 163	No
Blaketree MUD 2 of Montgomery County	No
Conroe MUD 1	No
Harris County MUD 105	No
Mills Road MUD	No
Harris County MUD 216	No
Harris County MUD 109	No
Harris County MUD 492	No
Harris County MUD 554	No
Harris County MUD 506	No
Harris County MUD 542	No
Harris County MUD 566	No
Willow Point MUD	No
East Montgomery County MUD 6	No
East Montgomery County MUD 7	No
Montgomery County MUD 24	No
Montgomery County MUD 42	No
Harris County MUD 416	No
Harris County MUD 418	No
Charterwood MUD	No
Brazoria County MUD 53	No
Harris County MUD 558	No
Harris County MUD 461	No
Montgomery County MUD 95	No
Montgomery County MUD 106	No
Montgomery County MUD 90	No
Montgomery County MUD 46	No
Brazoria County MUD 28	No
Brazoria County MUD 39	No
Harris County MUD 391	No
Harris County MUD 493	No
White Oak Bend MUD	No
Harris County MUD 434	No
Harris County MUD 387	No
West Harris County MUD 15	No
Harris County WCID 155	No
Fort Bend County MUD 185	No
Greenwood Utility District	No
Montgomery County MUD 89	No
Montgomery County MUD 88	No
Charleston MUD	No

List of Special District Political Subdivisions

Entity	Actively Involved in Flood Planning?
Harris County MUD 481	No
Brazoria County MUD 32	No
Harris County MUD 424	No
Harris County MUD 482	No
Galveston County MUD 36	No
Harris County MUD 249	No
Bammel Utility district	No
Fort Bend-Waller Counties MUD 3	No
Montgomery County MUD 114	No
Harris County MUD 532	No
Harris County MUD 519	No
Montgomery County MUD 135	No
Montgomery County MUD 139	No
Montgomery County MUD 136	No
Harris-Brazoria Counties MUD 509	No
Harris County Utility District 6	No
Harris County MUD 158	No
Harris County WCID 109	No
Woodridge MUD	No
Harris County MUD 412	No
Longhorn Town Utility District	No
Fort Bend County MUD 168	No
Harris County Improvement District 3	No
Hunter's Glen MUD	No
Montgomery County MUD 131	No
Brazoria County MUD 48	No
Brazoria County MUD 49	No
Brazoria County MUD 50	No
Northwest Harris County MUD 30	No
Brazoria County MUD 43	No
Newport MUD	No
Barker Cypress MUD	No
East Montgomery County MUD 5	No
Harris County MUD 465	No
Northwest Harris County MUD 16	No
Northwest Harris County MUD 23	No
Harris County MUD 5	No
Fort Bend County MUD 58	No
Harris County MUD 86	No
Harris County MUD 547	No
Magnolia East MUD	No
Brazoria County MUD 42	No
Harris County MUD 441	No
Montgomery County MUD 140	No
Harris County MUD 399	No
Harris County MUD 419	No

List of Special District Political Subdivisions

Entity	Actively Involved in Flood Planning?
Harris County MUD 304	No
Harris County MUD 397	No
Harris County MUD 406	No
Cypress-Klein Utiltiy District	No
Brazoria County MUD 56	No
Harris County MUD 365	No
Montgomery County MUD 113	No
Grant Road PUD	No
Galveston County MUD 31	No
Harris County WCID 161	No
East Montgomery County MUD 3	No
Harris County MUD 530	No
Harris County MUD 529	No
Waller County Improvement District 2	No
Harris County MUD 120	No
Harris County MUD 501	No
Bridgestone MUD	No
Harris County MUD 538	No
Harris County MUD 551	No
Brazoria County MUD 66	No
Harris County MUD 18	No
Lake Forest Utility District	No
Harris County WCID 114	No
Harris County MUD 379	No
Montgomery County MUD 178	No
Harris County MUD 534	No
Harris County MUD 533	No
Brazoria County MUD 61	No
Harris County MUD 367	No
Willow Creek Farms MUD	No
Harris-montgomery Counties MUD 386	No
Dowdell PUD	No
Harris County MUD 400	No
Montgomery County MUD 47	No
Fort Bend County MUD 130	No
Meadowhill Regional MUD	No
Harris County MUD 376	No
Harris County MUD 378	No
Harris County MUD 396	No
Harris County Road Improvement District 1	No
Rayford Road MUD	No
West Harris County MUD 7	No
Harris County MUD 102	No
Harris County MUD 381	No
Fountainhead MUD	No
Waller County Improvement District 1	No

List of Special District Political Subdivisions

Entity	Actively Involved in Flood Planning?
Brazoria County MUD 22	No
Montgomery County MUD 67	No
Montgomery County MUD 126	No
North Forest MUD	No
Montgomery County MUD 119	No
Harris County FWSD 58	No
Harris County MUD 182	No
Louetta North PUD	No
Lago Bello MUD 1	No
Harris County MUD 570	No
Valley Ranch MUD 1	No
Galveston County MUD 15	No
Fort Bend County MUD 190	No
Mount Houston Road MUD	No
Harris County WCID 21	No
Galveston County MUD 76	No
North Belt Utility District	No
Northgate Crossing MUD 2	No
Harris County MUD 490	No
Harris County MUD 361	No
East Downtown Mgmt District	No
Brazoria County MUD 18	No
Brazoria County MUD 21	No
Fort Bend County MUD 122	No
Galveston County MUD 39	No
Big Oaks MUD	No
Montgomery County MUD 60	No
Northpointe WCID	No
Northwest Harris County MUD 6	No
Harris County MUD 496	No
Harris County MUD 420	No
Harris County MUD 383	No
Harris County MUD 544	No
Harris County MUD 540	No
Waller County MUD 33	No
Montgomery County MUD 154A	No
Brazoria County MUD 73	No
Harris County MUD 495	No
Harris County Improvemend District 25	No
Harris County MUD 64	No
Trinity Lakes MUD of Montgomery County	No
Brazoria County MUD 40	No
Greens Parkway MUD	No
Harris County MUD 230	No
Harris County MUD 196	No
Montgomery County MUD 180	No

List of Special District Political Subdivisions

Entity	Actively Involved in Flood Planning?
Harris County MUD 423	No
Montgomery County MUD 108	No
Montgomery County MUD 166	No
Galveston County MUD 56	No
Green Tree Park MUD	No
Harris County MUD 553	No
East Montgomery County MUD 12	No
Montgomery County MUD 158	No
Montgomery County MUD 179	No
Fort Bend County MUD 34	No
Harris County Improvement District 14	No
Harris County MUD 157	No
Brazoria County MUD 24	No
Harris County MUD 24	No
Montgomery County MUD 155	No
CY Champ PUD	No
Galveston County MUD 59	No
West Harris County MUD 17	No
Montgomery County MUD 176	No
Harris County Improvement District 24	No
Harris County MUD 165	No
Northwest Harris County MUD 15	No
West Harris County MUD 21	No
Harris County MUD 544	No
Harris County FWSD 1A	No
Montgomery County WCID 4	No
Harris County MUD 565	No
Harris Waller Counties MUD 4	No
Harris County MUD 248	No
Northwest Harris County MUD 10	No
Lakewood MUD 2	No
Montgomery County MUD 105	No
Montgomery County MUD 112	No
Montgomery County MUD 121	No
Montgomery County MUD 159	No
Lakewood MUD 3	No
Lakewood Improvement District	No
Harris County MUD 552	No
Brazoria County MUD 69	No
Harris County MUD 569	No
Montgomery County MUD 175	No
Harris County MUD 555	No
Encanto Real Utility District	No
Wood Trace WCID of Montgomery County	No
Northampton MUD	No
Wood Trace MUD 4	No

List of Special District Political Subdivisions

Entity	Actively Involved in Flood Planning?
Brazoria-Fort Bend Counties MUD 3	No
Montgomery County MUD 174	No
Malcomson Road Utility District	No
Harris County Improvement District 27	No
Harris County MUD 568	No
Liberty Grand MUD 1	No
Remington MUD 1	No
Montgomery County MUD 165	No
Galveston County MUD 73	No
Galveston County MUD 74	No
Brazoria County MUD 51	No
Waller County MUD 35	No
Harris-Waller Counties MUD 3	No
Lakewood MUD 1	No
Harris County MUD 202	No
Montgomery County MUD 157	No
Montgomery County MUD 173	No
Richfield Ranch WCID	No
Harris County MUD 377	No
Harris County MUD 380	No
Montgomery County MUD 148	No
Woodlands Water Agency	Yes
Liberty County Water Control District 1	No

Appendix 2-A – Task 2A Maps

Map 4: Existing Condition Flood Hazard

Legend

Flood Hazard Area

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Watersheds
- Municipality
- County
- Region Boundary

N

0 5 10

Miles

Region 6 San Jacinto
2028 Regional Flood Plan
Existing Condition Flood Hazard

MAP 4

1 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP REGION 6

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Legend

Index

Walker County Page 3

San Jacinto County Page 4

Liberty County Page 5

E Montgomery County Page 6

W Montgomery County Page 7

Grimes County Page 8

Waller County Page 9

W Harris County Page 10

E Harris County Page 11

Central Harris County Page 14

Harris County Ship Channel Page 13

Chambers County Page 12

Fort Bend County Page 15

Brazoria County Page 16

Galveston County Page 17

Huntsville

Alabama-Coushatta Reservation

The Woodlands

Atascocita

Houston

Sugar Land

Rosenberg

Angleton

Lake Jackson

Bay City

Brazoria National Wildlife Refuge

San Bernard National Wildlife Refuge

N

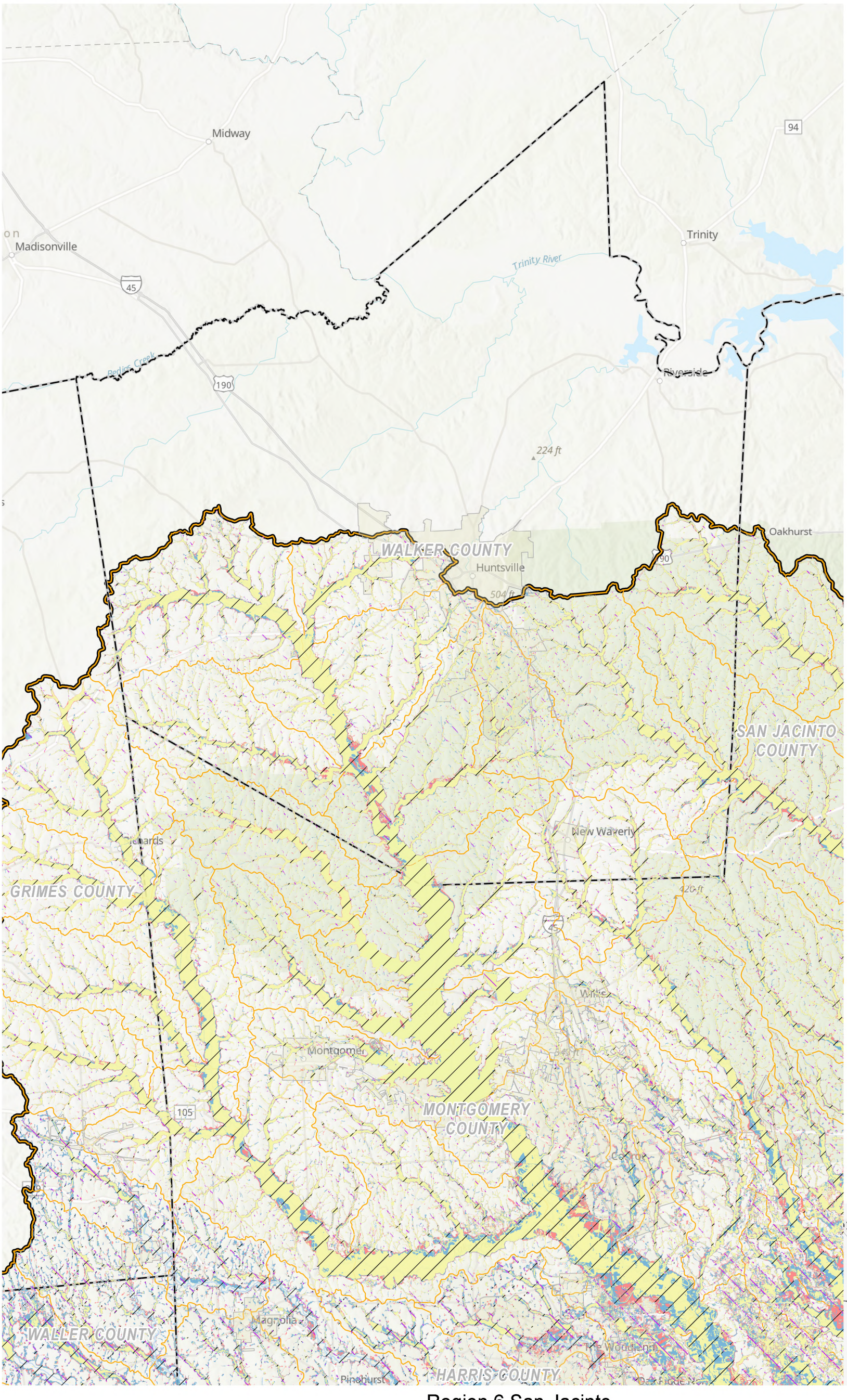
0 5 10

Miles

Region 6 San Jacinto
2028 Regional Flood Plan
Existing Condition Flood Hazard

MAP 4

2 of 17 in series



Legend

Flood Type

- Riverine
- Other
- Coastal
- Local

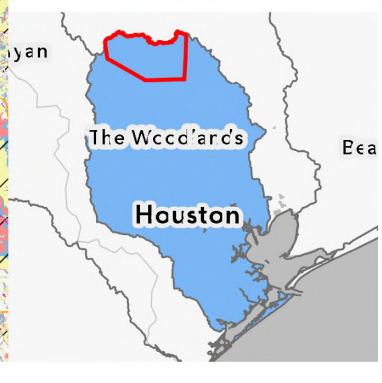
Flood Hazard Area

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 3.5 7

Miles



SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Hazard

MAP 4
3 of 17 in series

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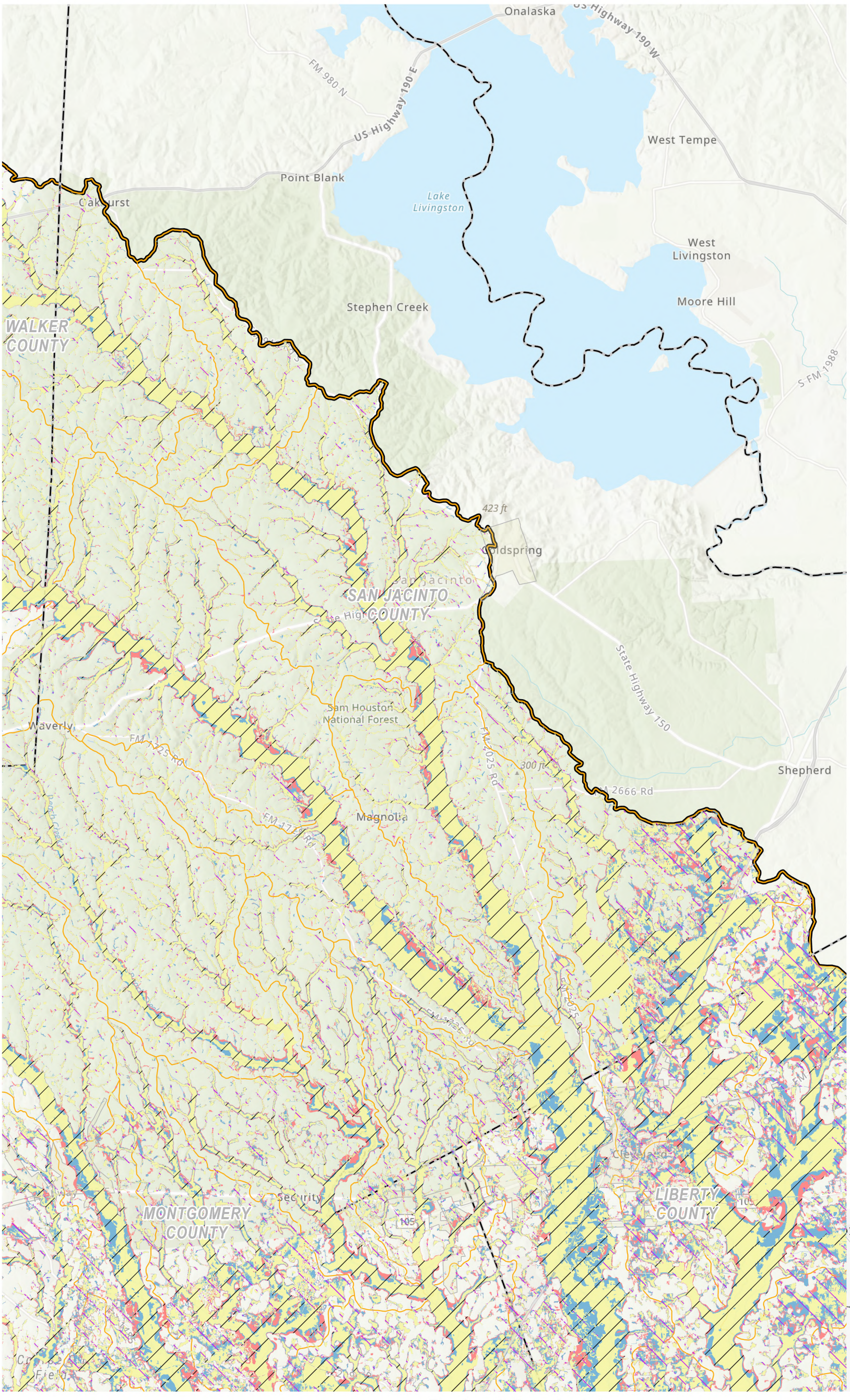

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Hazard

MAP 4
4 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Legend

Flood Type

- Riverine
- Other
- Coastal
- Local

Flood Hazard Area

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 2.25 4.5

Miles

Region 6 San Jacinto
2028 Regional Flood Plan
Existing Condition Flood Hazard

MAP 4

5 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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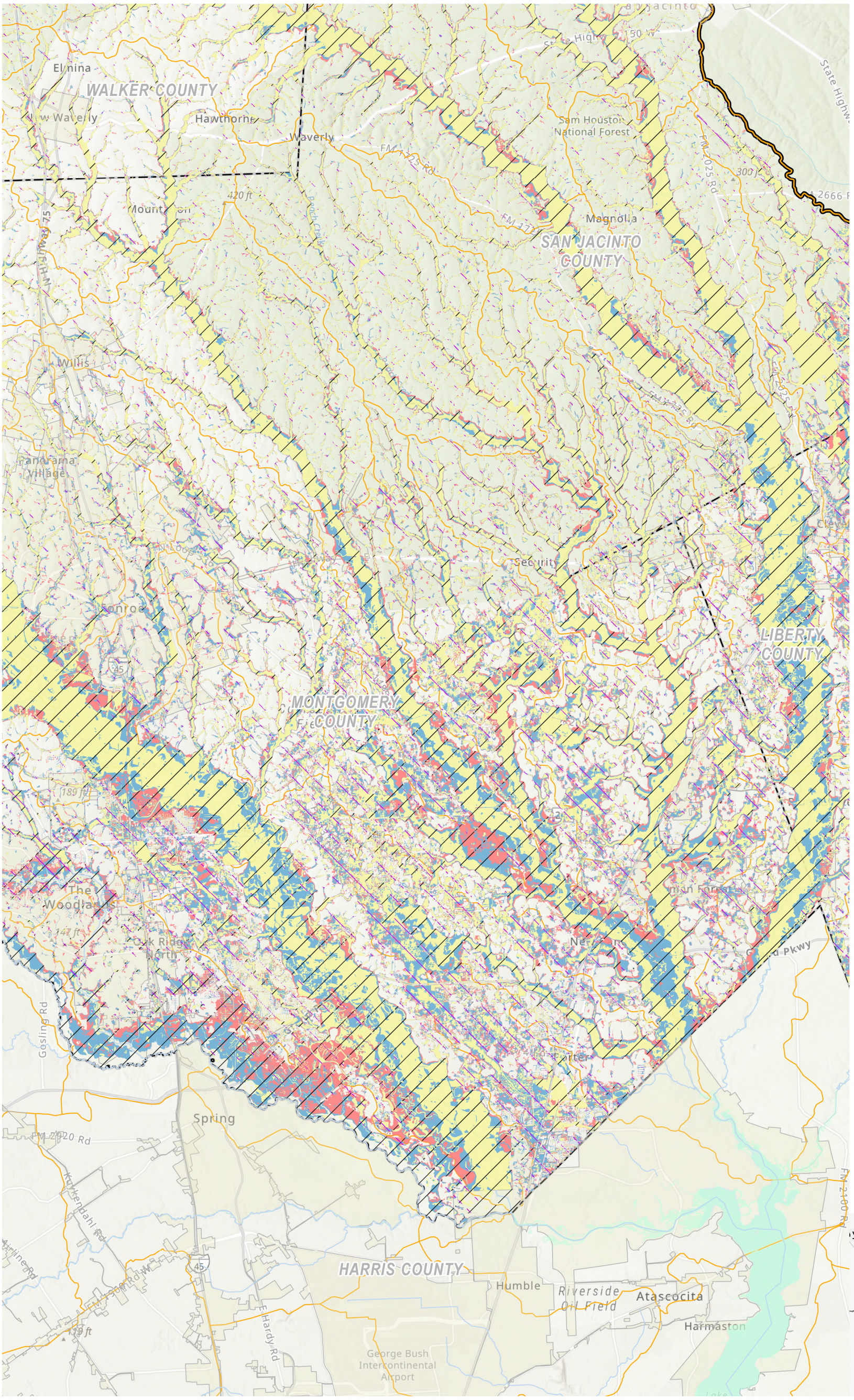

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Hazard

MAP 4
6 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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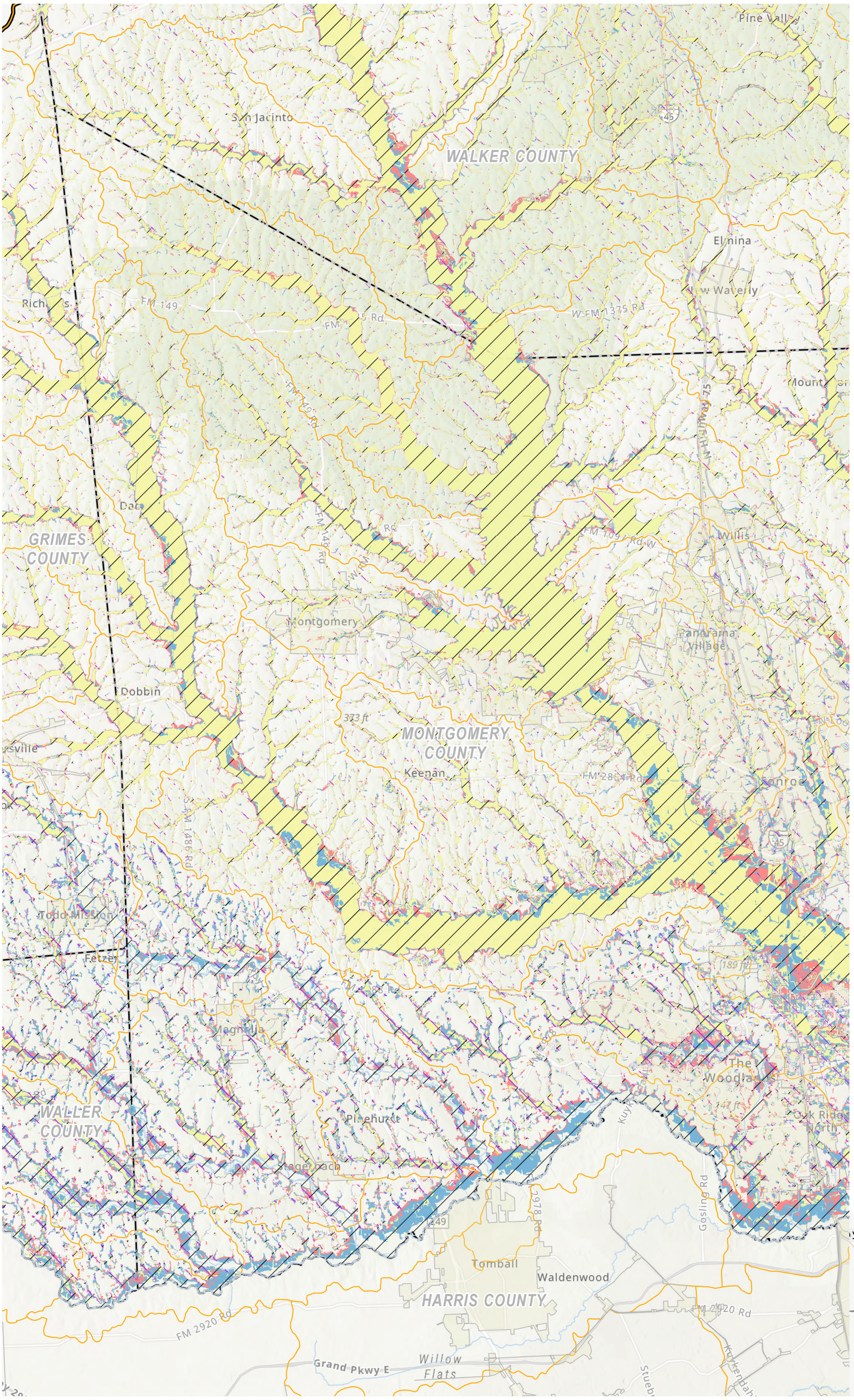
NAD 1983 StatePlane Texas South Central FIPS 4204 Feet



Legend

Flood Type

- Riverine
- Other
- Coastal
- Local

Flood Hazard Area

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 2.25 4.5

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Hazard

MAP 4
7 of 17 in series

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

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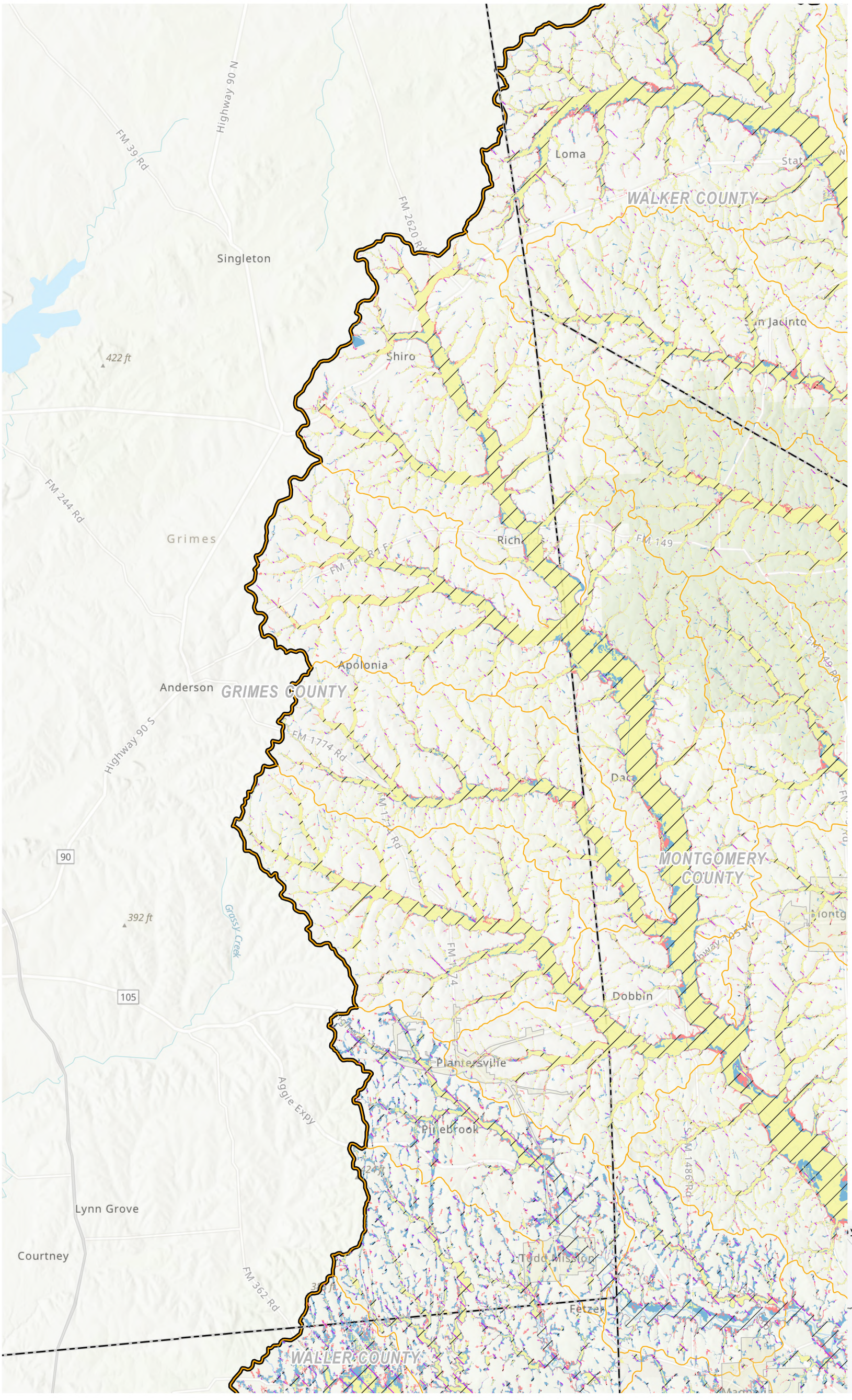
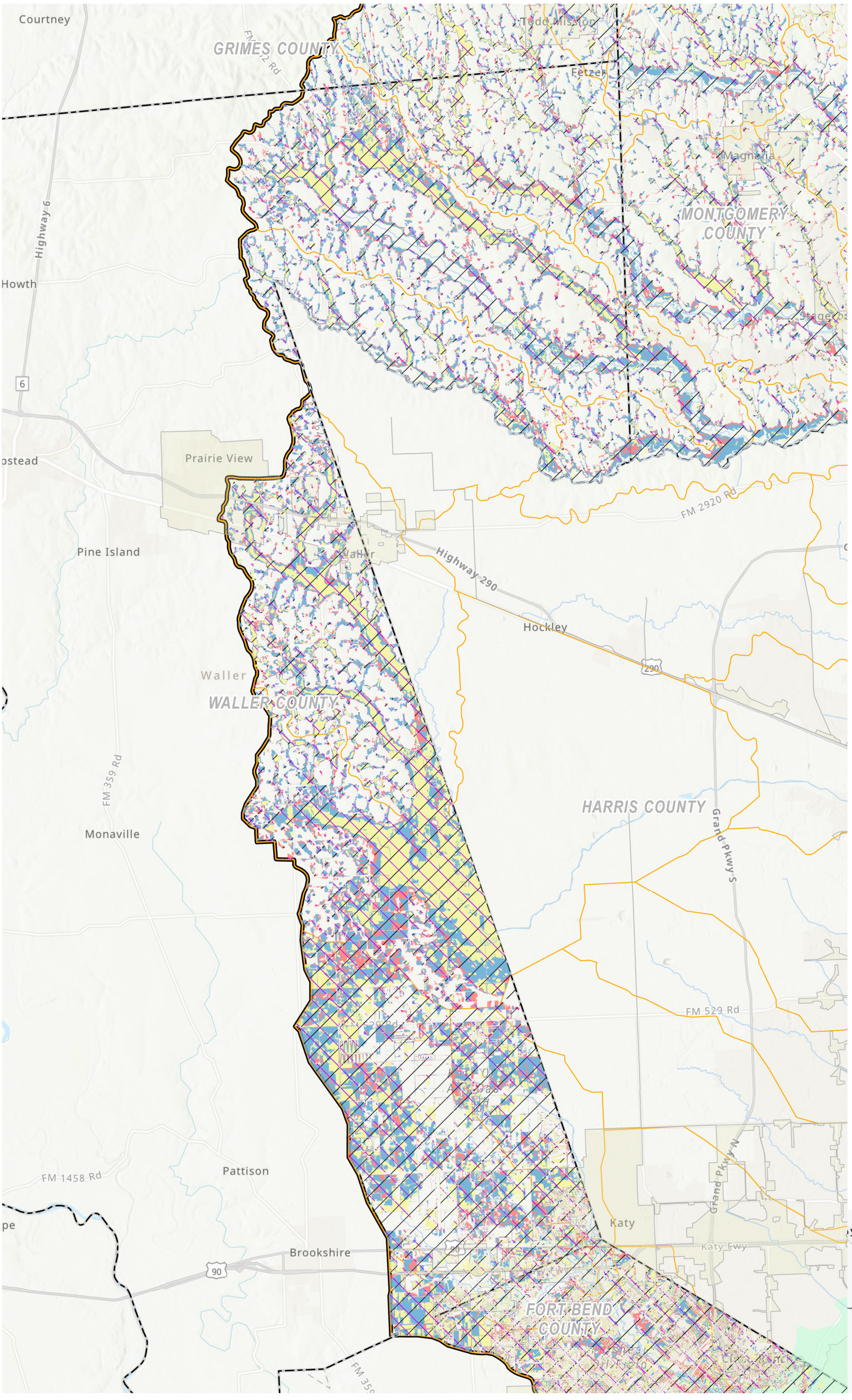


Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Hazard

MAP 4
8 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6



Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Hazard

MAP 4
9 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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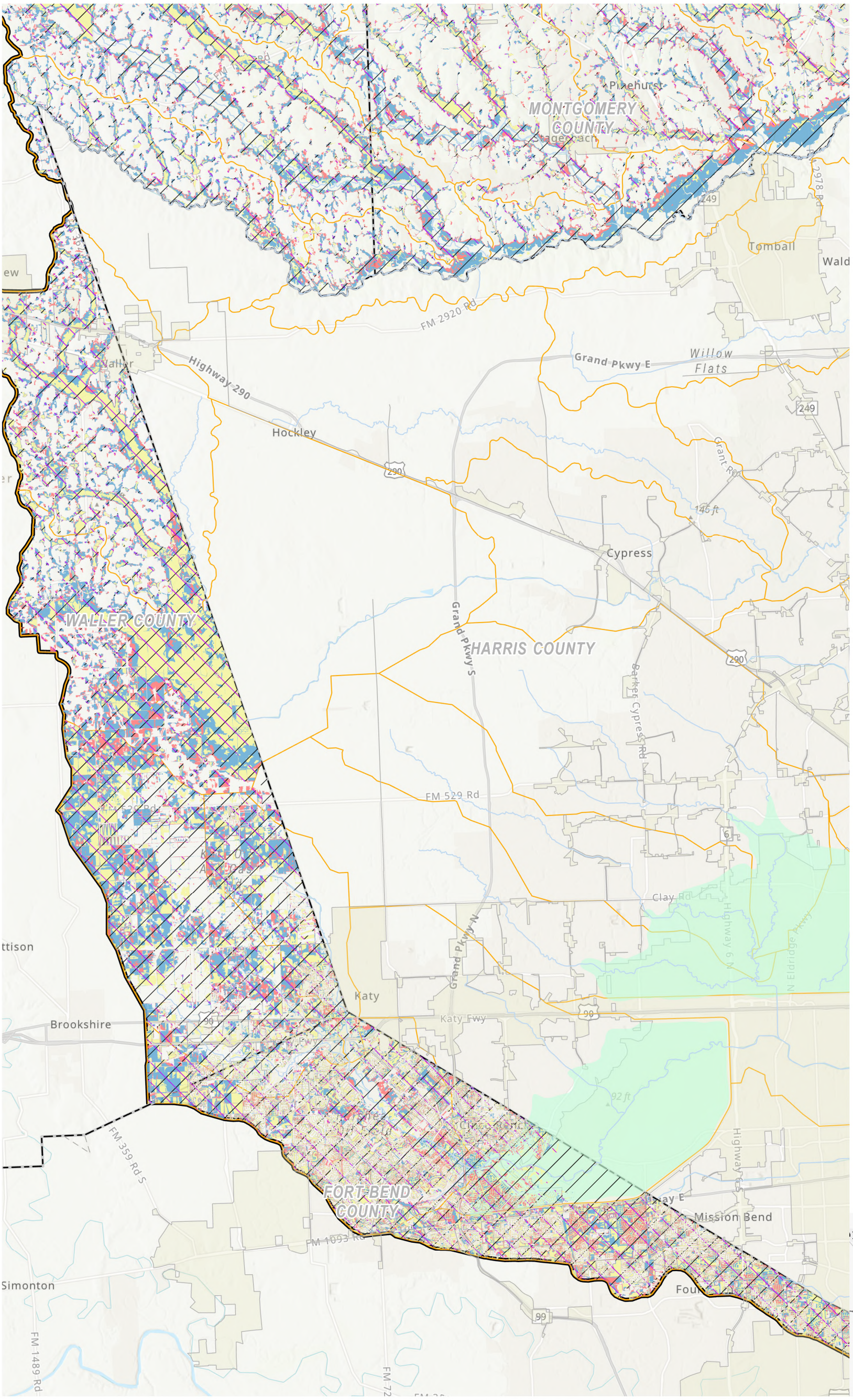

Legend

Flood Type

- Riverine
- Other
- Coastal
- Local

Flood Hazard Area

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
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- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 2 4

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Hazard

MAP 4
10 of 17 in series

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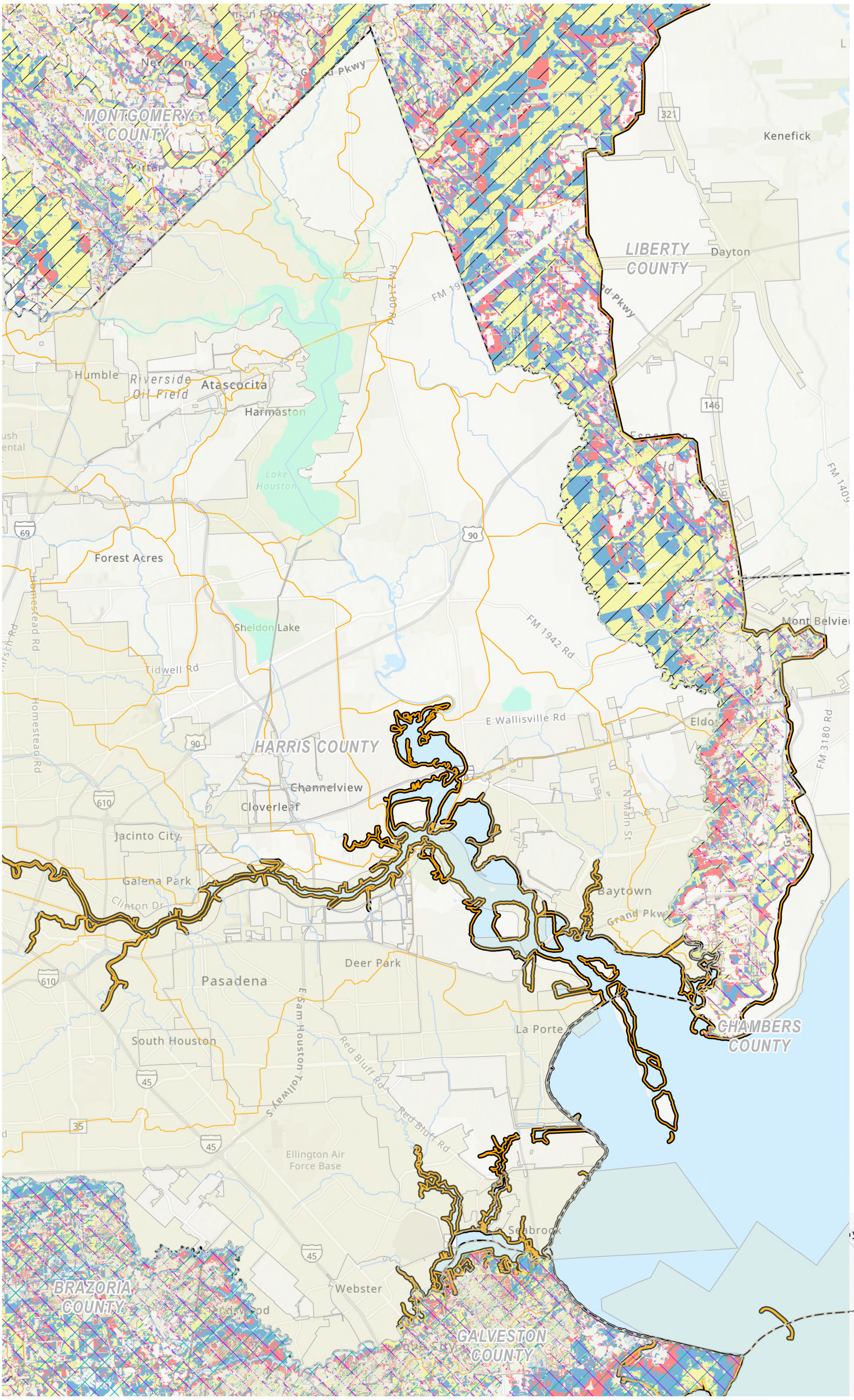

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Hazard

MAP 4
11 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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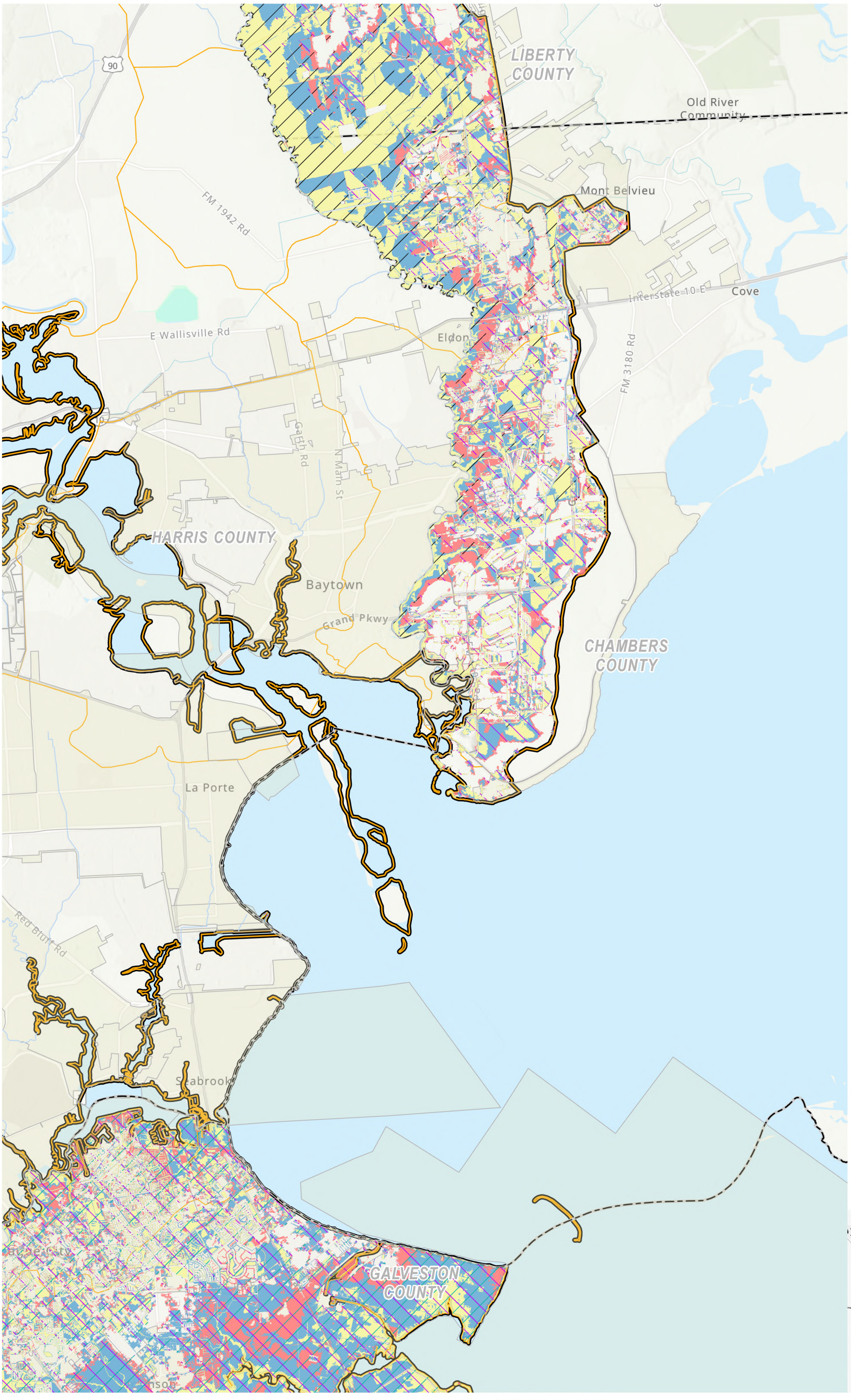

Legend

Flood Type

- Riverine
- Other
- Coastal
- Local

Flood Hazard Area

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 1.75 3.5

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Hazard

MAP 4
12 of 17 in series

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

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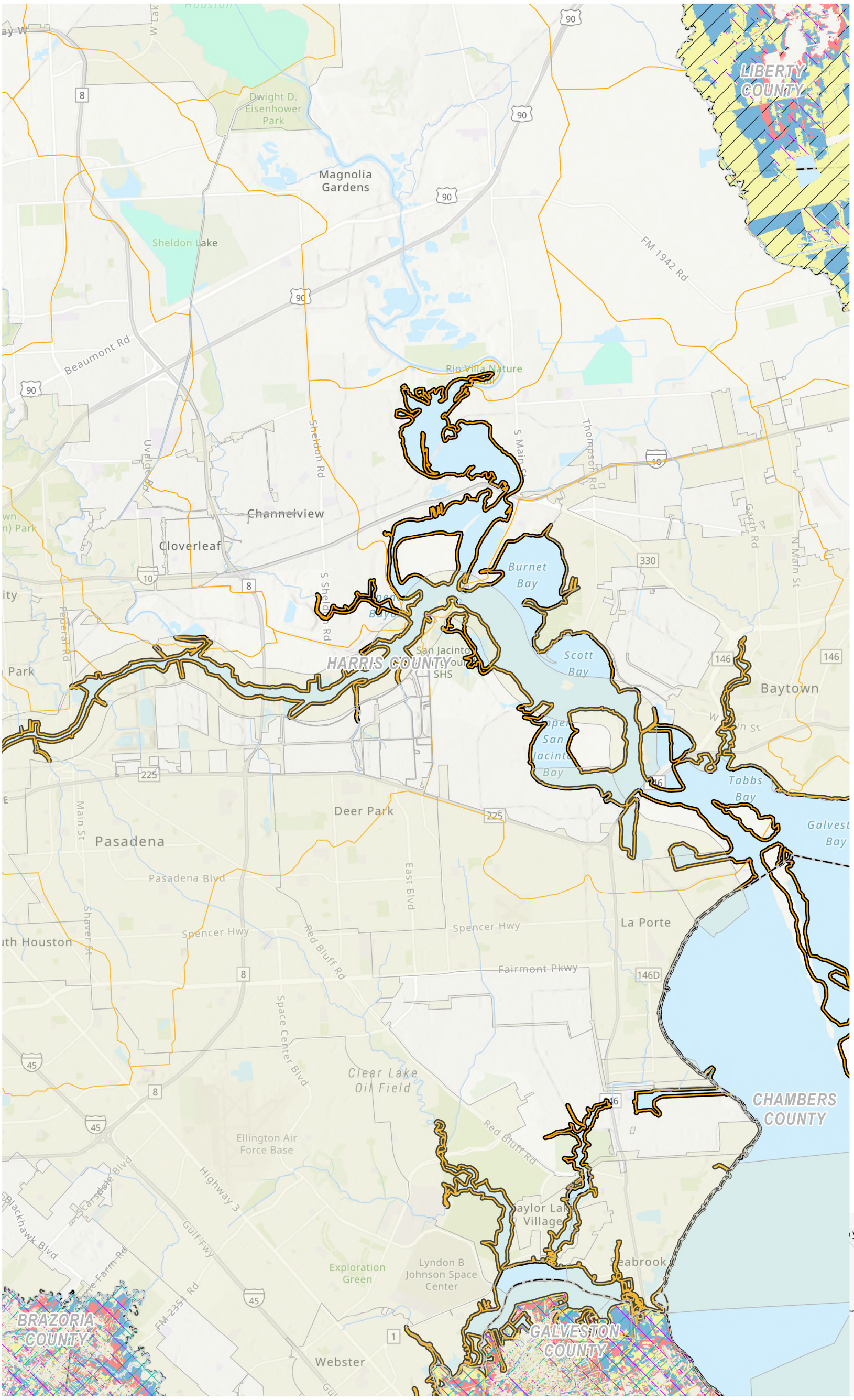
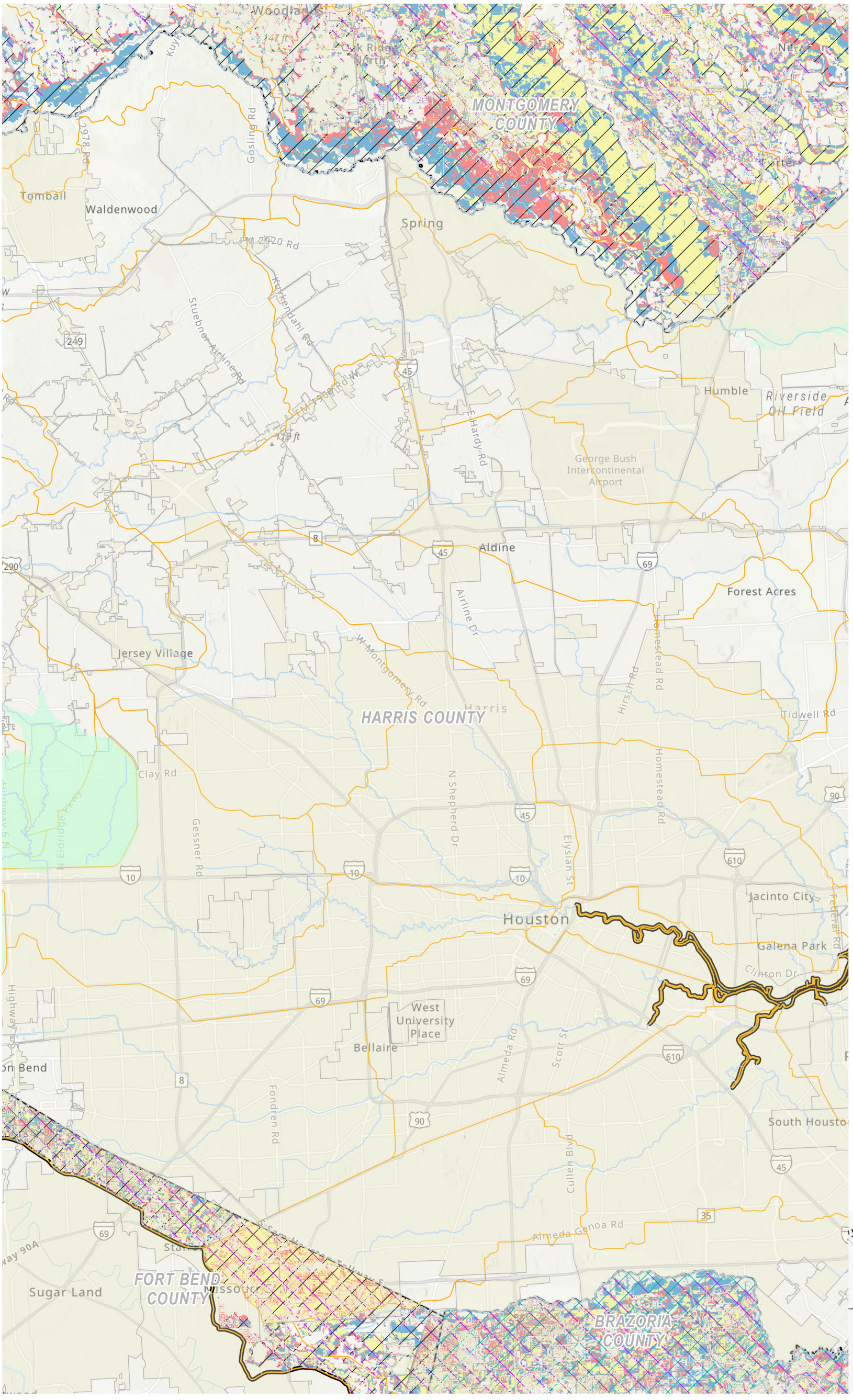


Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Hazard

MAP 4
13 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6



Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Hazard

MAP 4
14 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP REGION 6

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NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Legend

Flood Type

- Riverine
- Other
- Coastal
- Local

Flood Hazard Area

- 0.2% Annual Chance Flood Hazard
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- Flood Prone Area
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- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 2.75 5.5

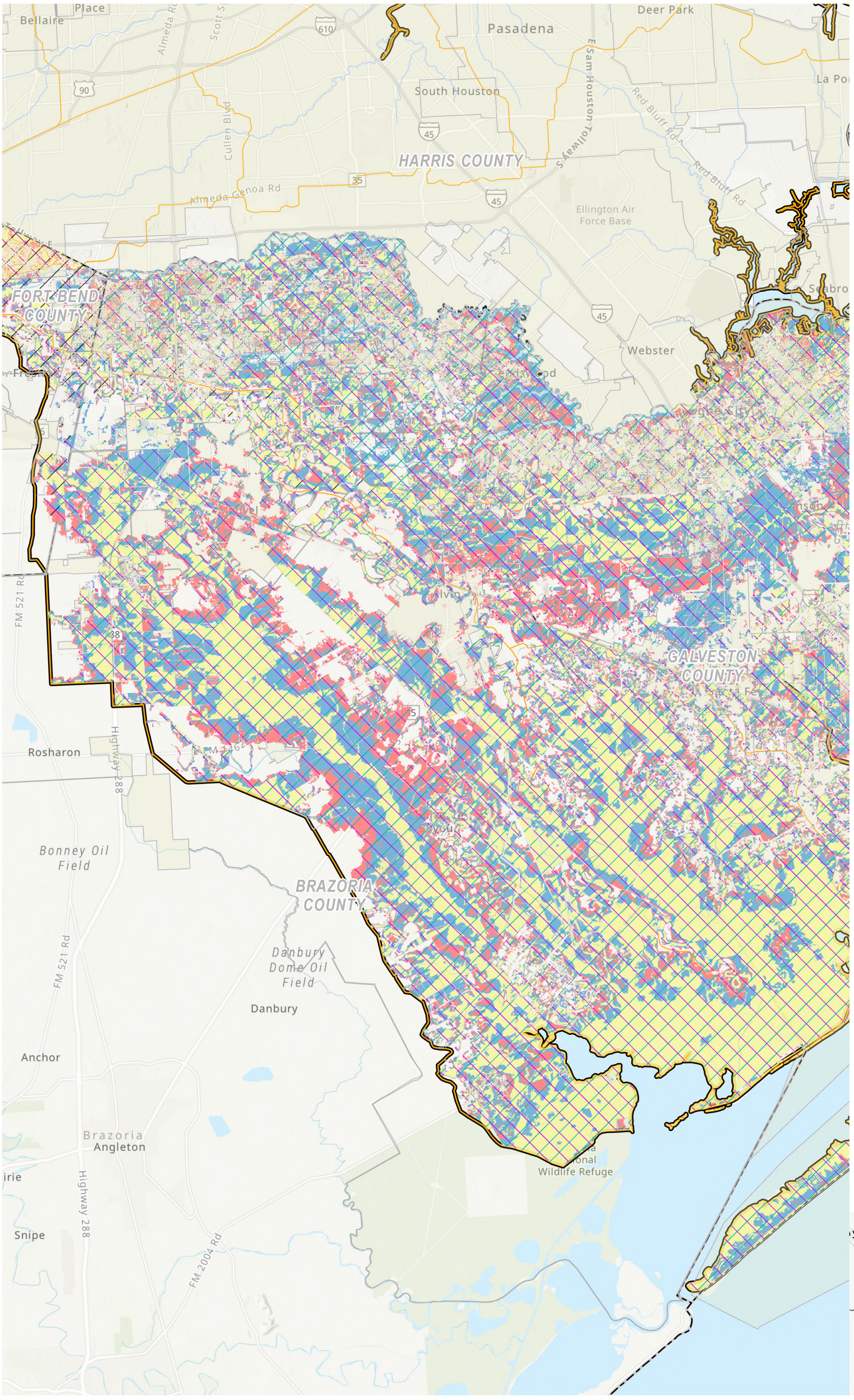
Miles

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Hazard

MAP 4
15 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

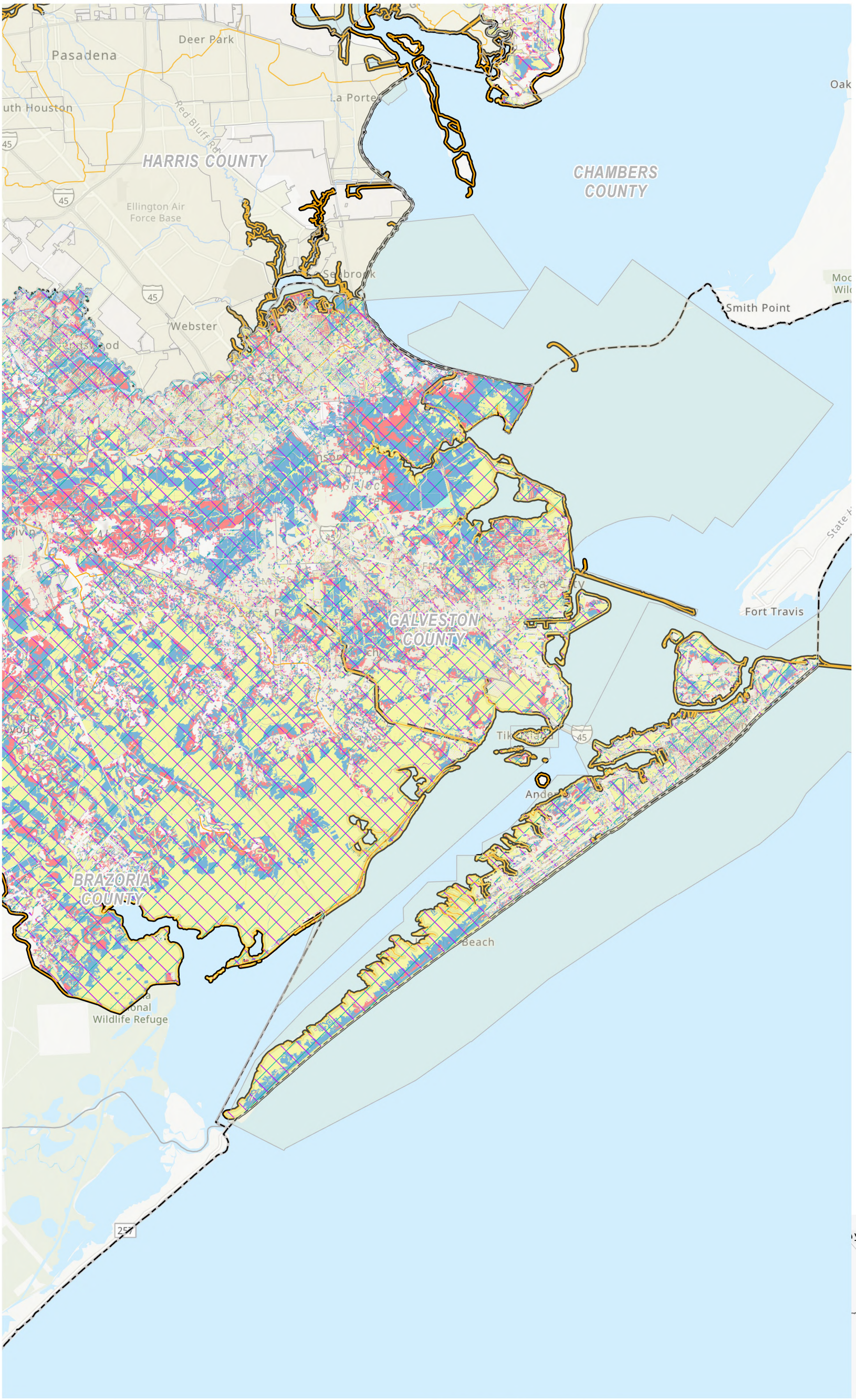


Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Hazard

MAP 4
16 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6



Legend

Flood Type

- Riverine
- Other
- Coastal
- Local

Flood Hazard Area

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 3 6

Miles

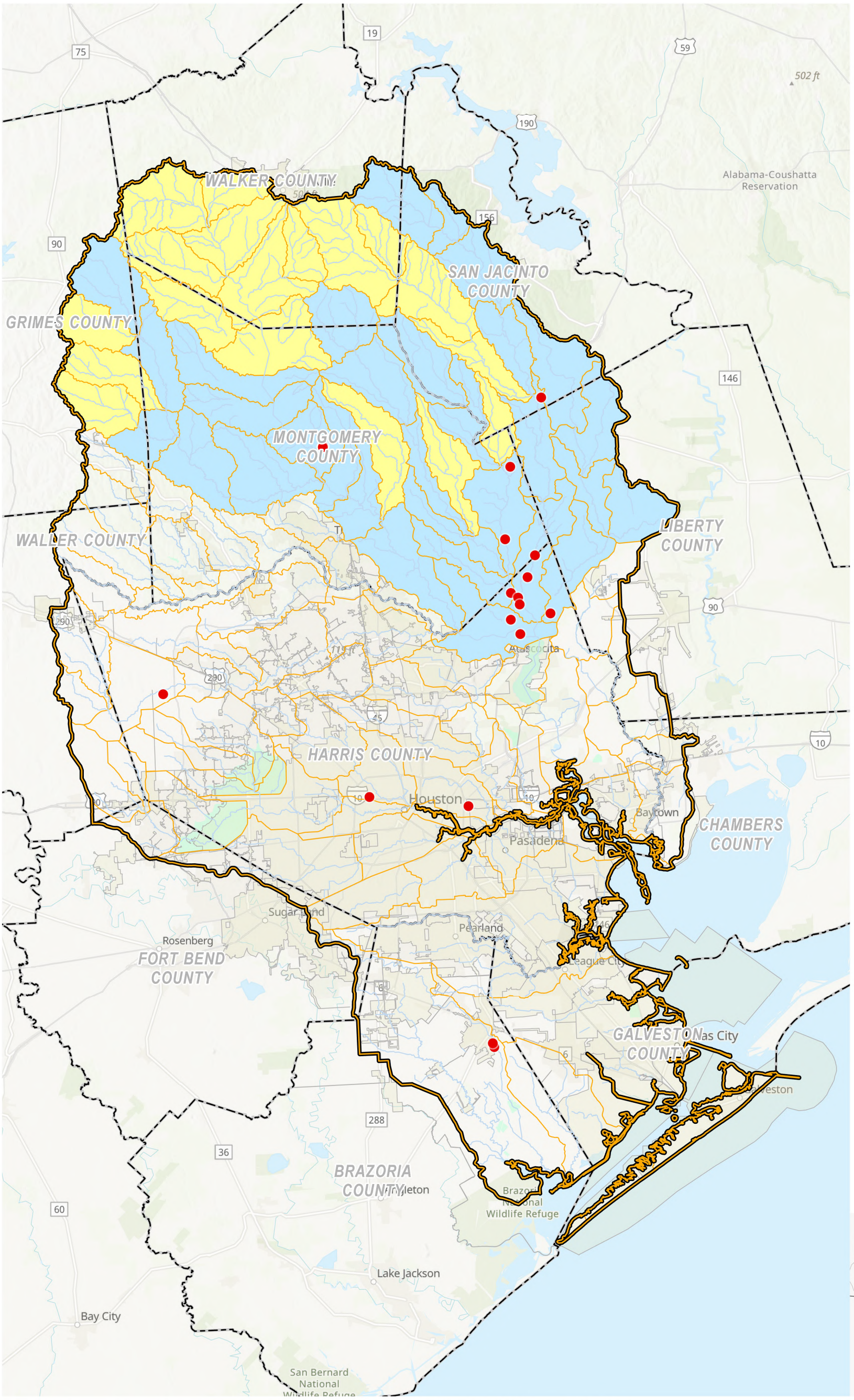
SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Hazard

MAP 4
17 of 17 in series

Map 5: Existing Condition Flood Hazard – Gaps in Inundation Boundary Mapping and Identify known Flood Prone Areas



Legend

- Public Reported Flood Prone Areas

Reason Description

- Approximate Data
- Incomplete Coverage
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 5 10

Miles

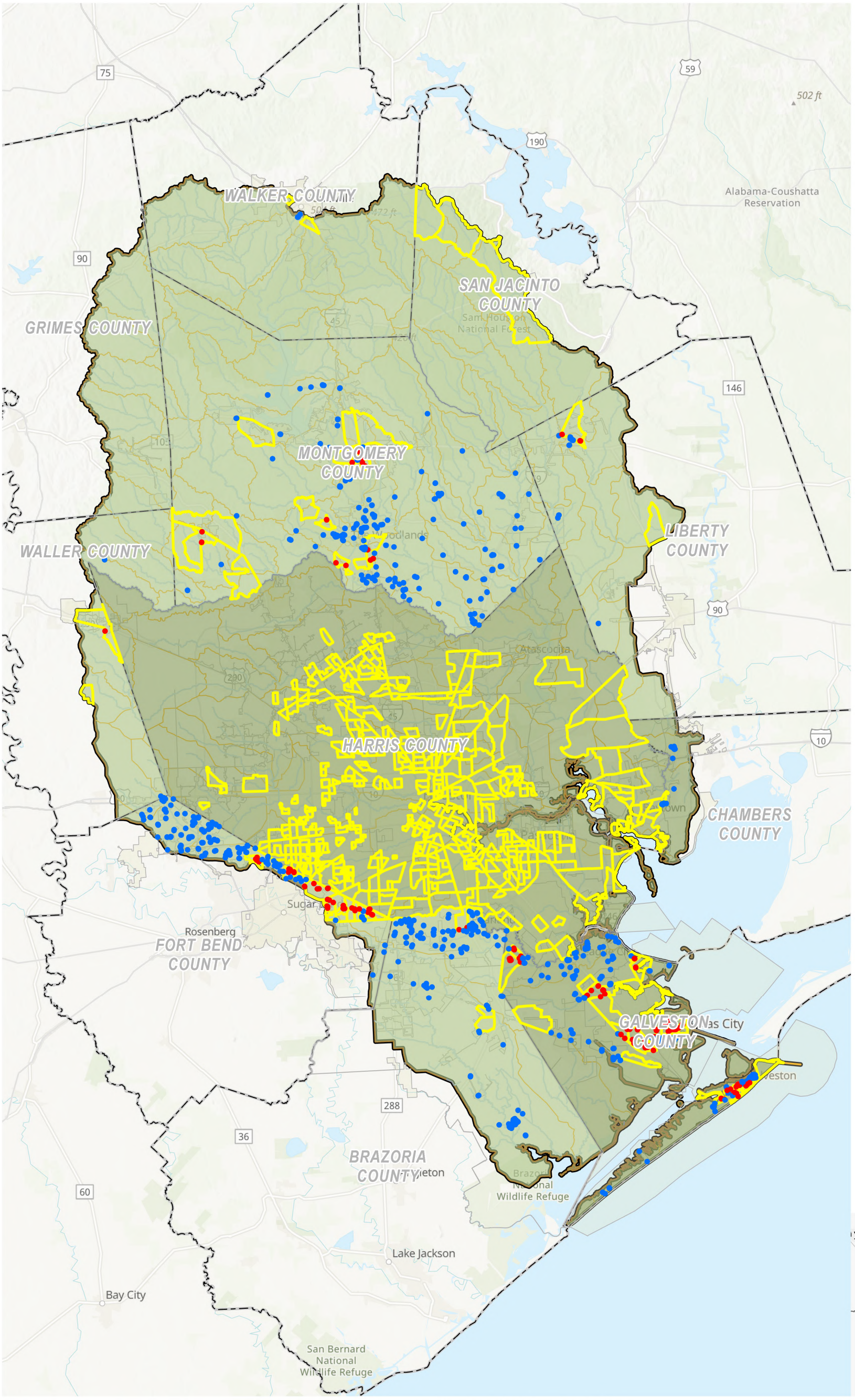
SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Hazard Map Gaps

MAP 5

Map 7: Existing Condition Vulnerability and Critical Infrastructure



Legend

Existing Critical Facilities TXF-SVI

- <0.75
- >0.75
- Census Tract TXF-SVI >0.75

Average County TXF-SVI

- < 0.35
- 0.35 - 0.50
- 0.50 - 0.75
- > 0.75
- Streams
- Municipality
- County
- Watersheds
- Region Boundary

N

0 5 10

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Vulnerability

MAP 7
1 of 17 in series

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NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Legend

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Harris County Ship Channel Page 13

Central Harris County Page 14

Fort Bend County Page 15

Brazoria County Page 16

Galveston County Page 17

N

0 5 10

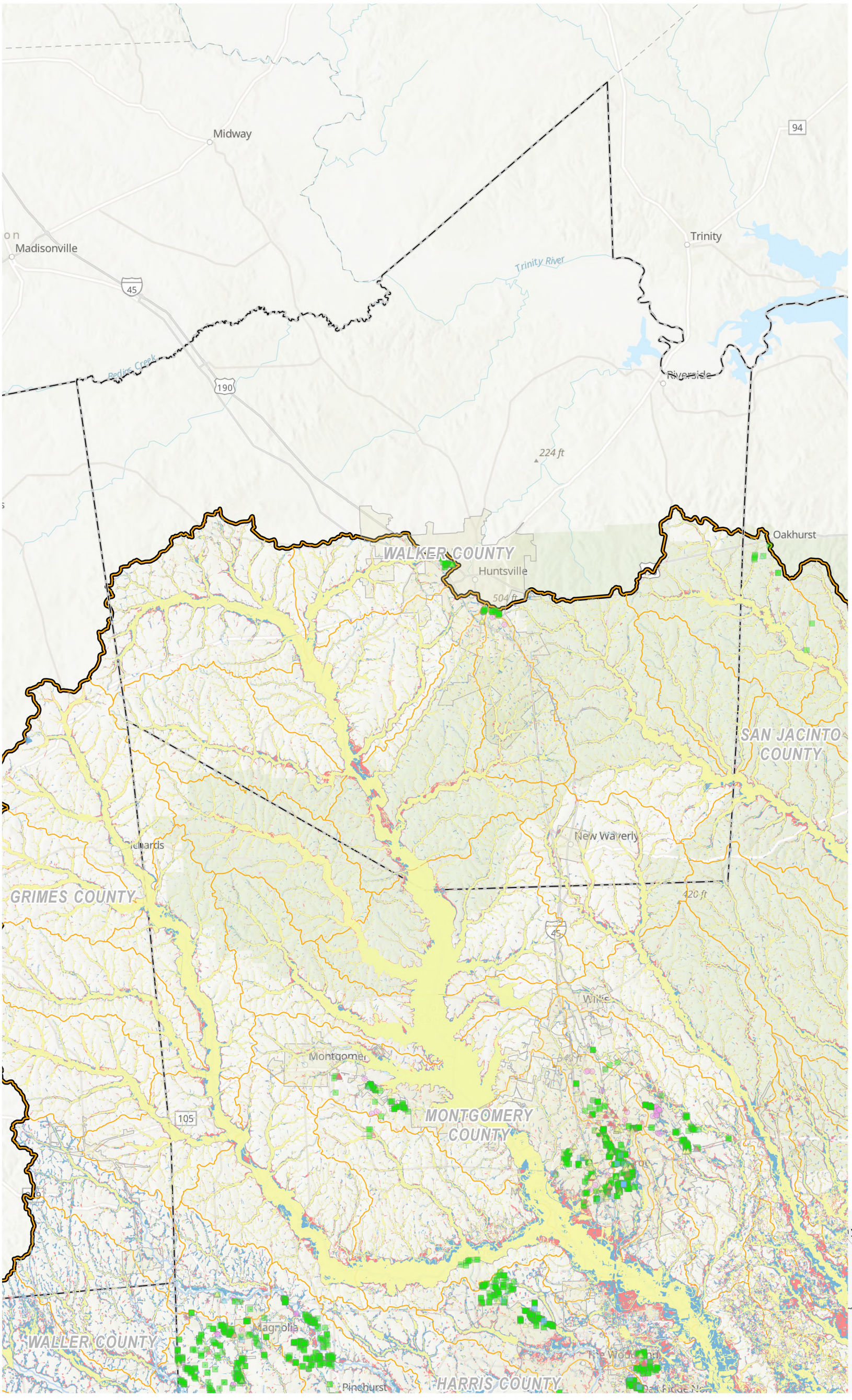
Miles

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Vulnerability

MAP 7

2 of 17 in series



Legend

Existing Flood Exposure TXF-SVI >0.75

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land

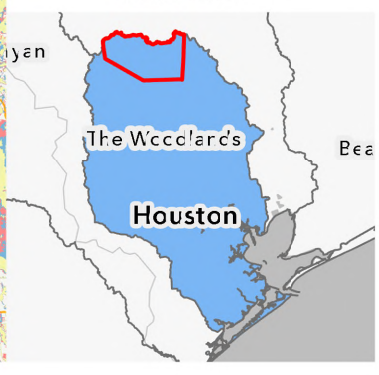
Existing Flood Hazard Area

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Reservoir
- Municipality
- County
- Watersheds
- Region Boundary

N

0 2.75 5.5

Miles



SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Vulnerability

MAP 7
3 of 17 in series

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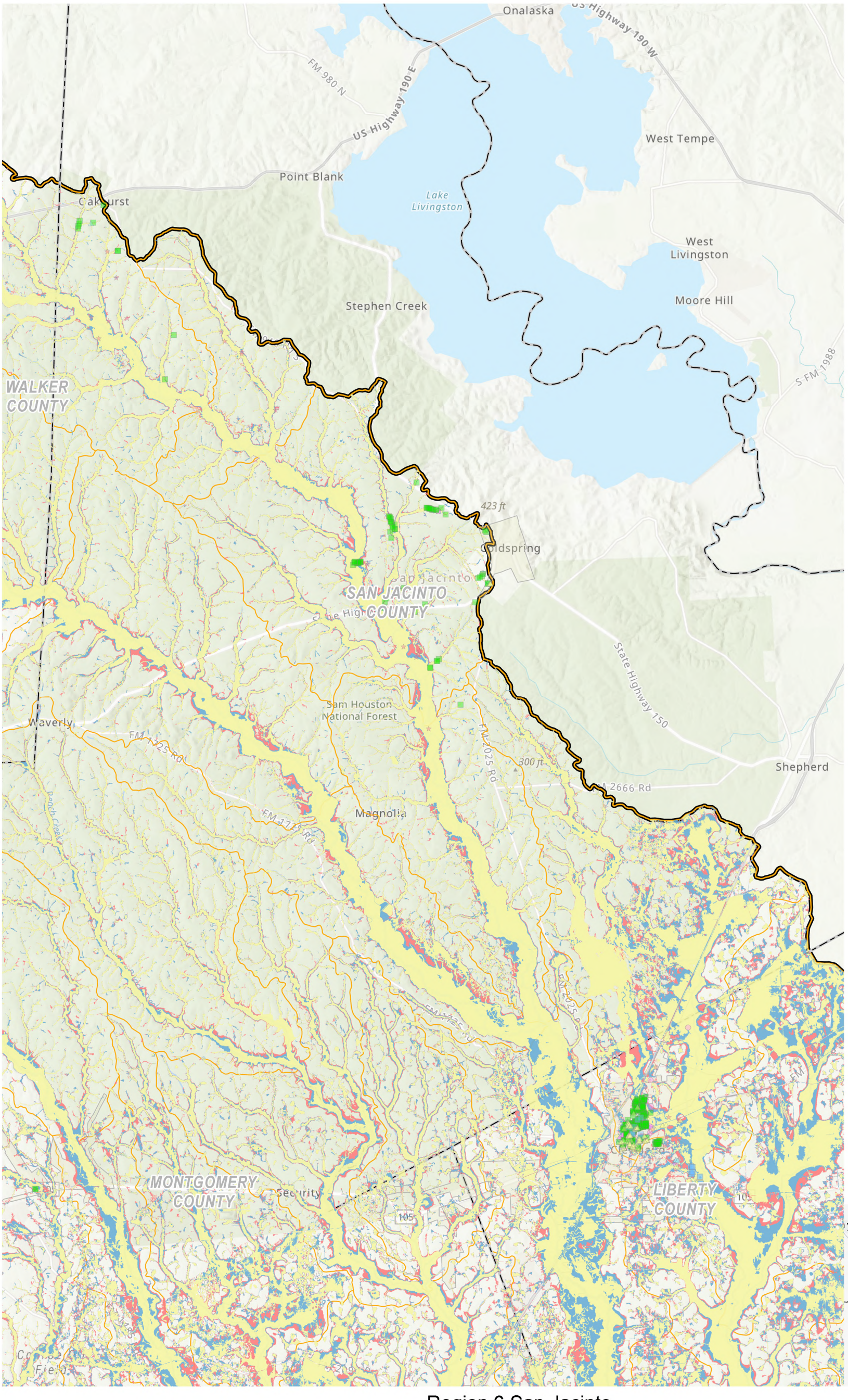

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Vulnerability

MAP 7
4 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Legend

Existing Flood Exposure TXF-SVI >0.75

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land

Existing Flood Hazard Area

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Reservoir
- Municipality
- County
- Watersheds
- Region Boundary

N

0 1.75 3.5

Miles

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Vulnerability

MAP 7
5 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP REGION 6

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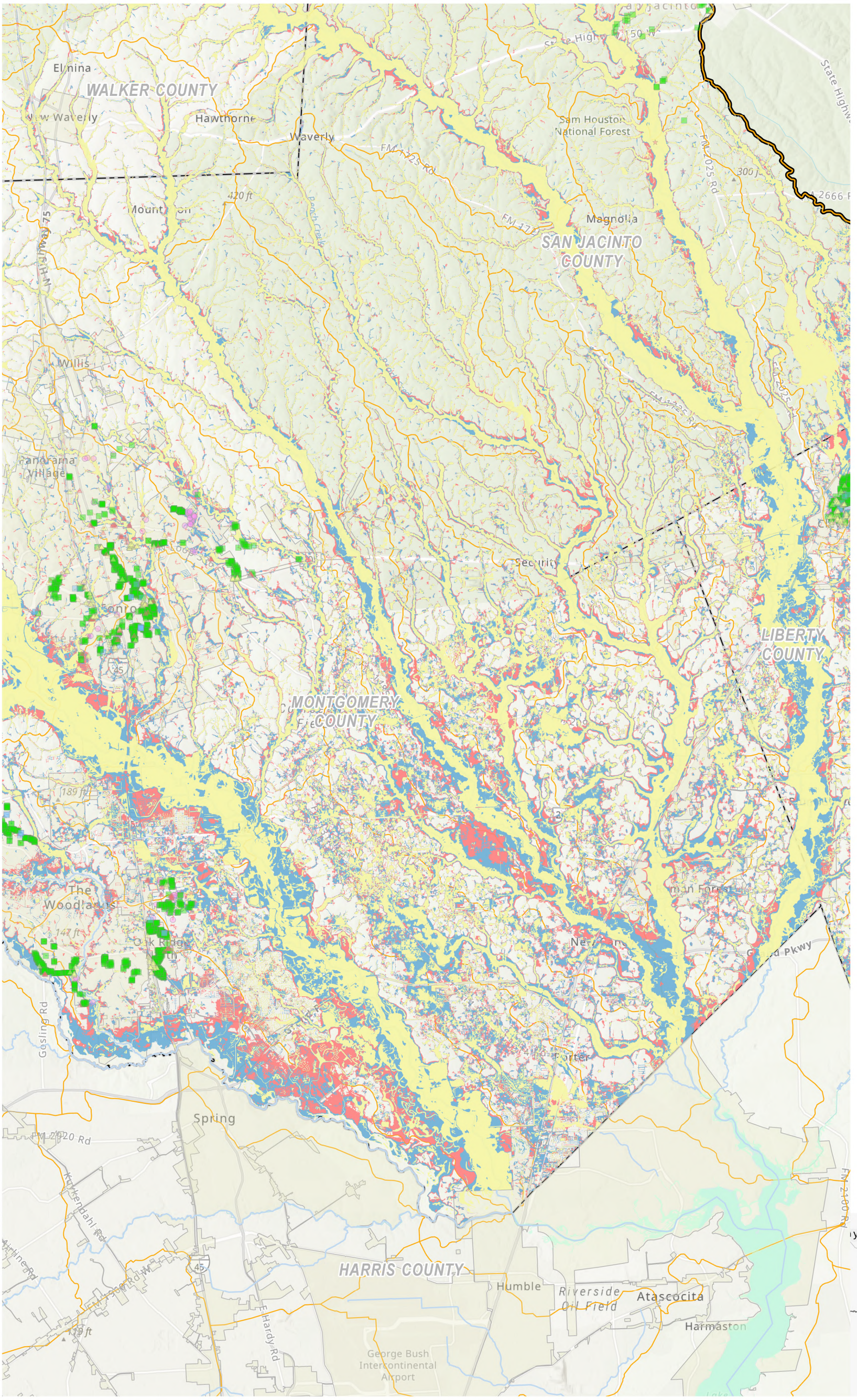
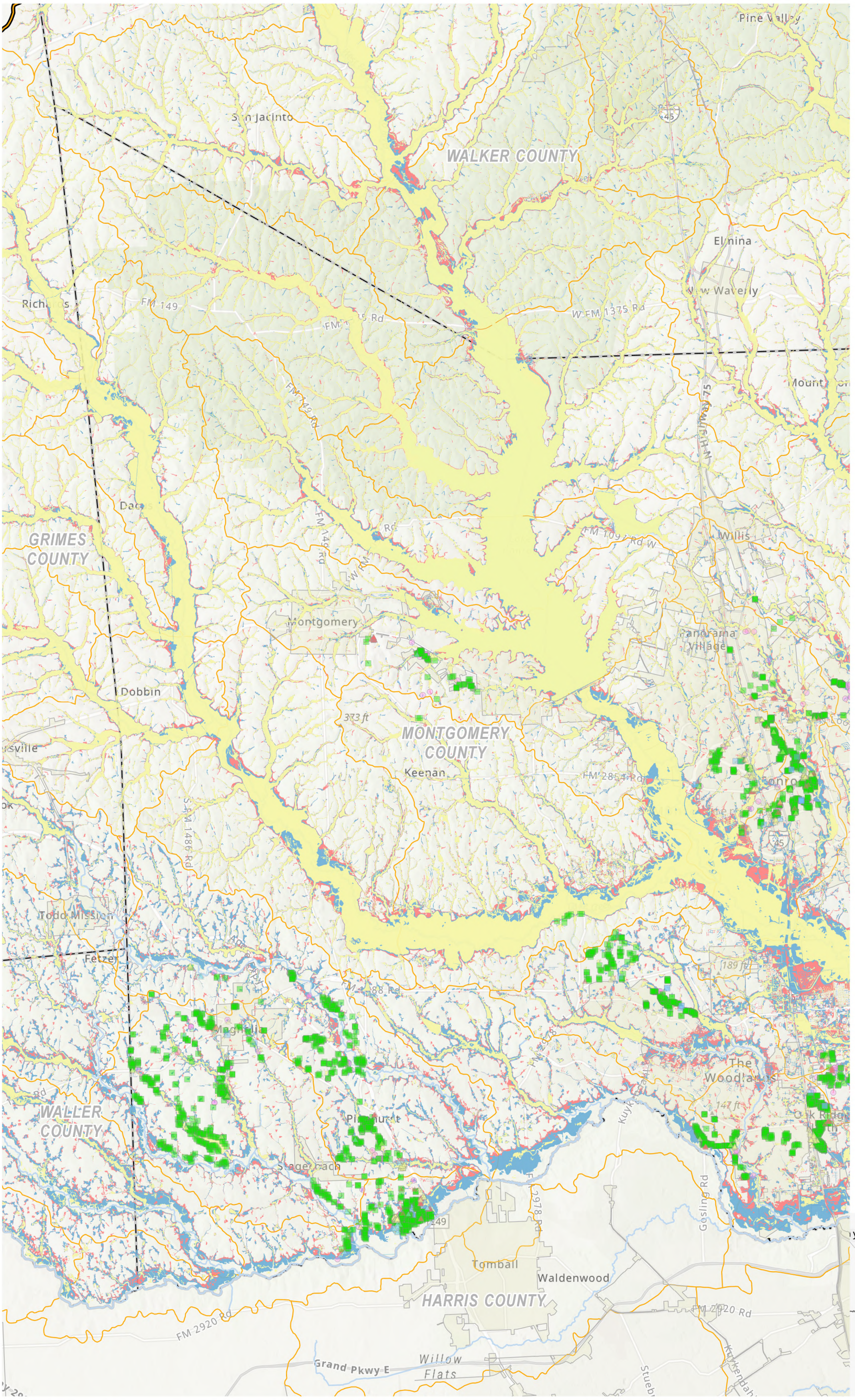


SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Vulnerability

MAP 7
6 of 17 in series



Legend

Existing Flood Exposure TXF-SVI >0.75

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land

Existing Flood Hazard Area

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N

0 1.75 3.5

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Vulnerability

MAP 7
7 of 17 in series

Legend

Existing Flood Exposure TXF-SVI >0.75

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
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- Region Boundary

N

0 1.5 3

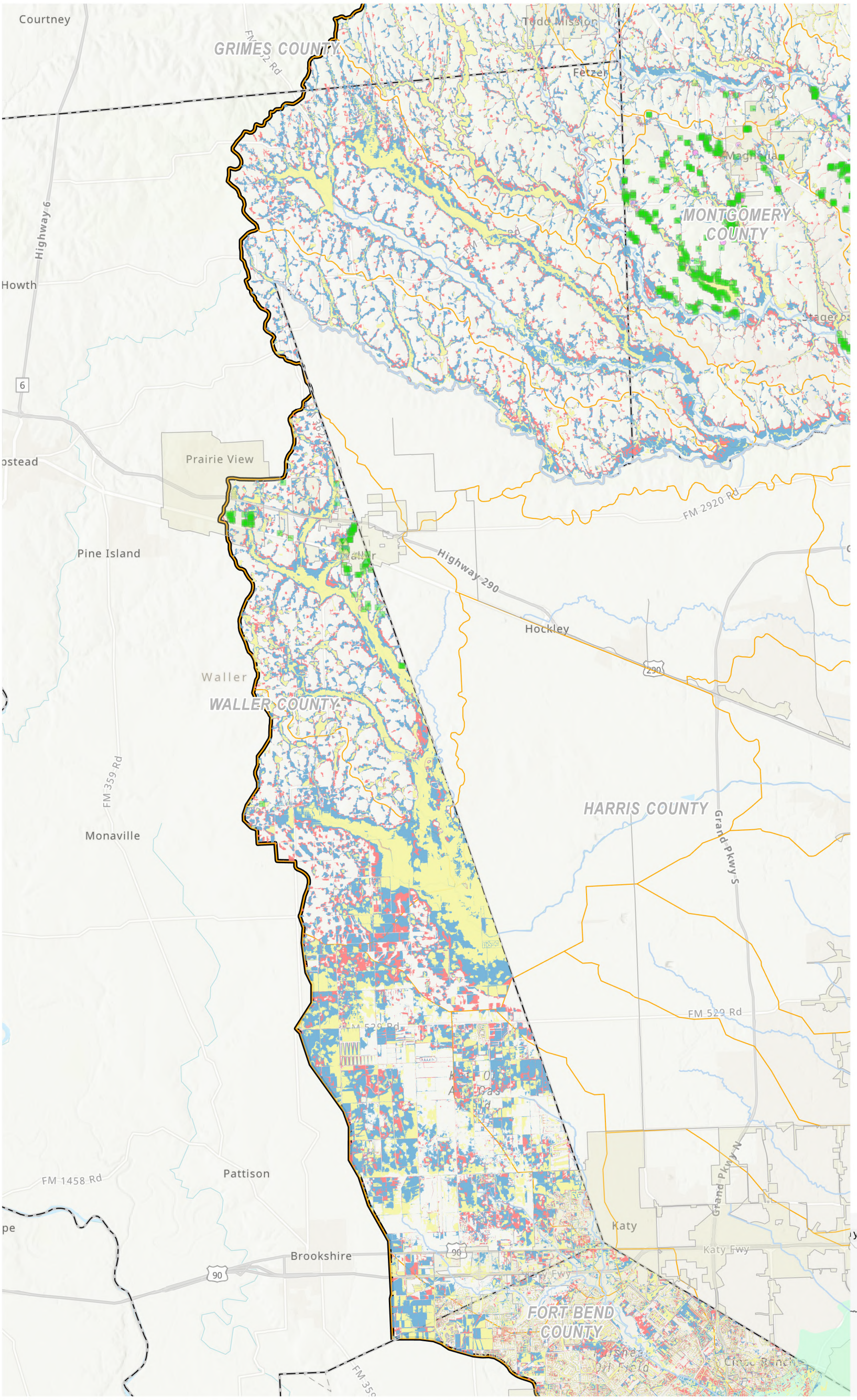
Miles

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Vulnerability

MAP 7
8 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

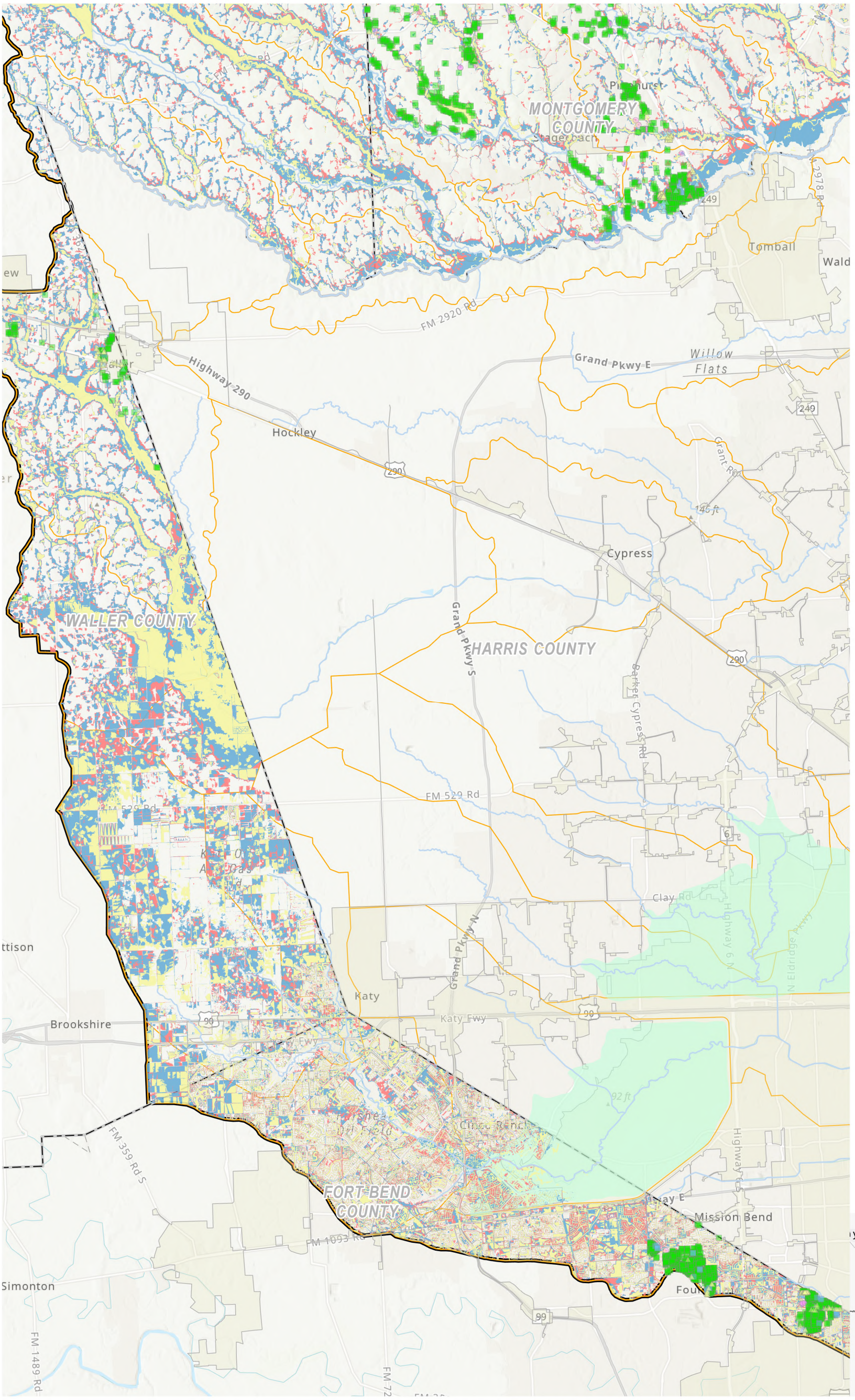


Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Vulnerability

MAP 7
9 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6



Legend

Existing Flood Exposure TXF-SVI >0.75

- Agricultural Bldg
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N

0 1.5 3

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Vulnerability

MAP 7
10 of 17 in series

Legend

Existing Flood Exposure TXF-SVI >0.75

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- Municipality
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- Region Boundary

N

0 2 4

Miles

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Vulnerability

MAP 7
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SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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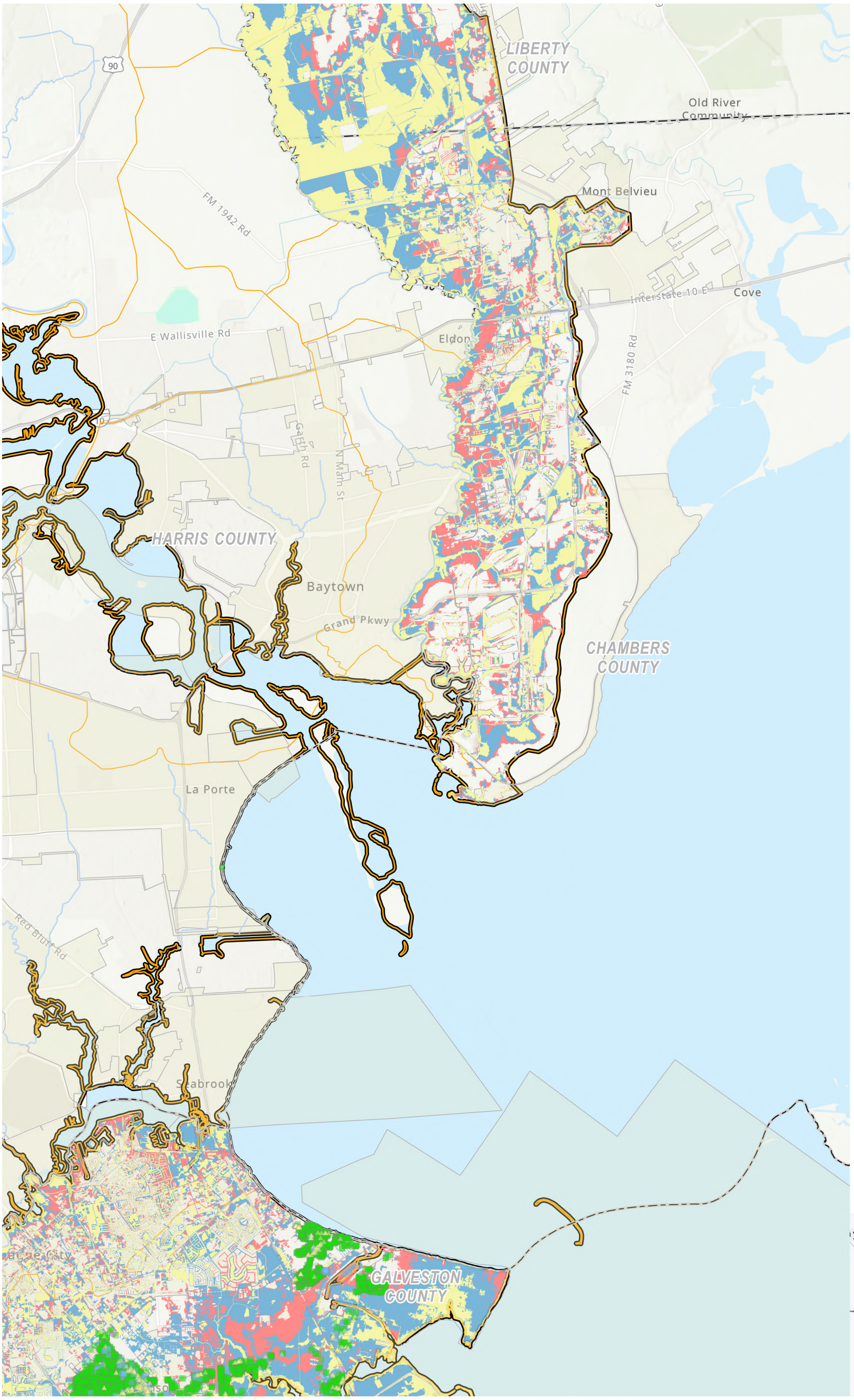

Legend

Existing Flood Exposure TXF-SVI >0.75

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N

0 1.25 2.5

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Vulnerability

MAP 7
12 of 17 in series

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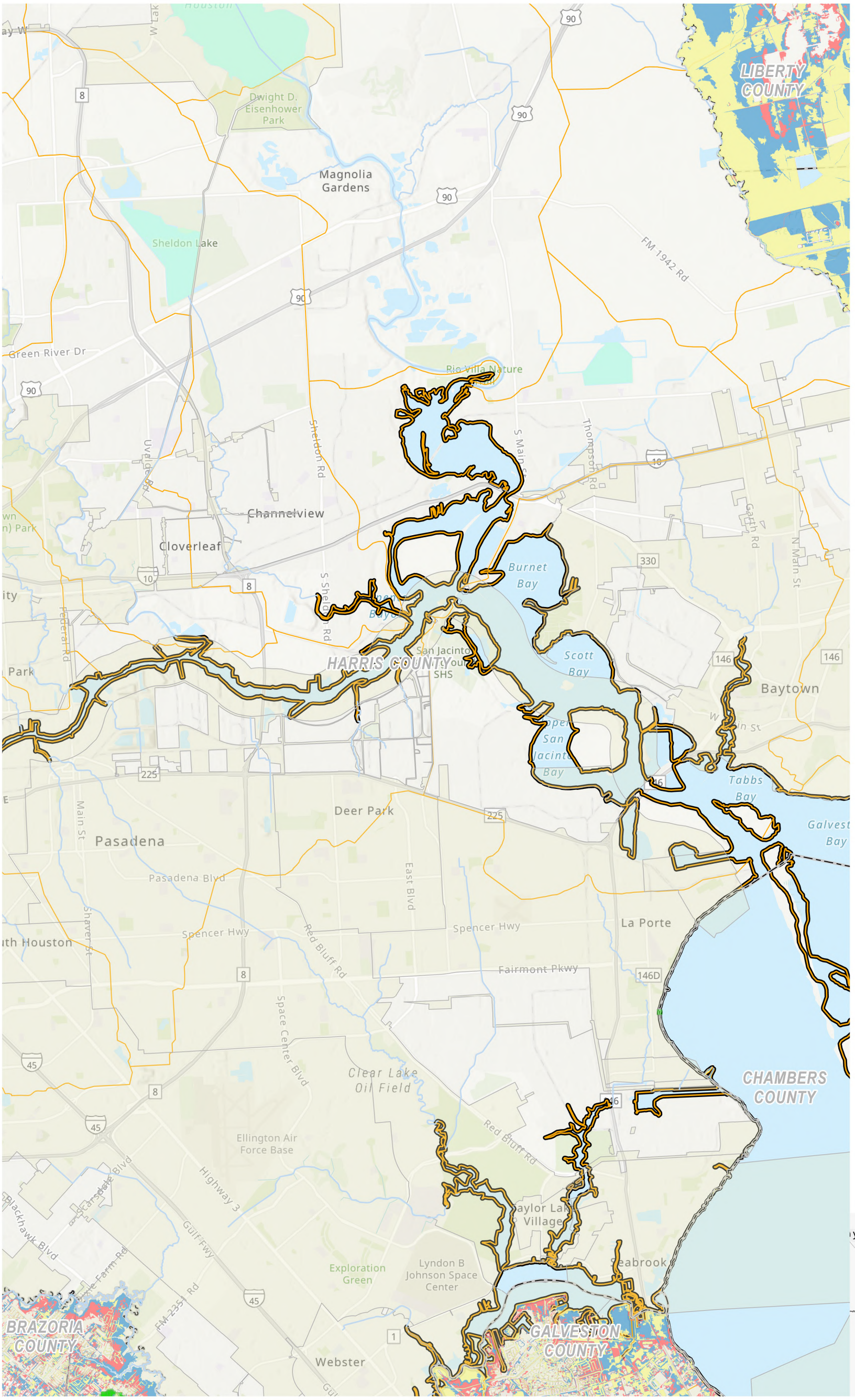

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Vulnerability

MAP 7
13 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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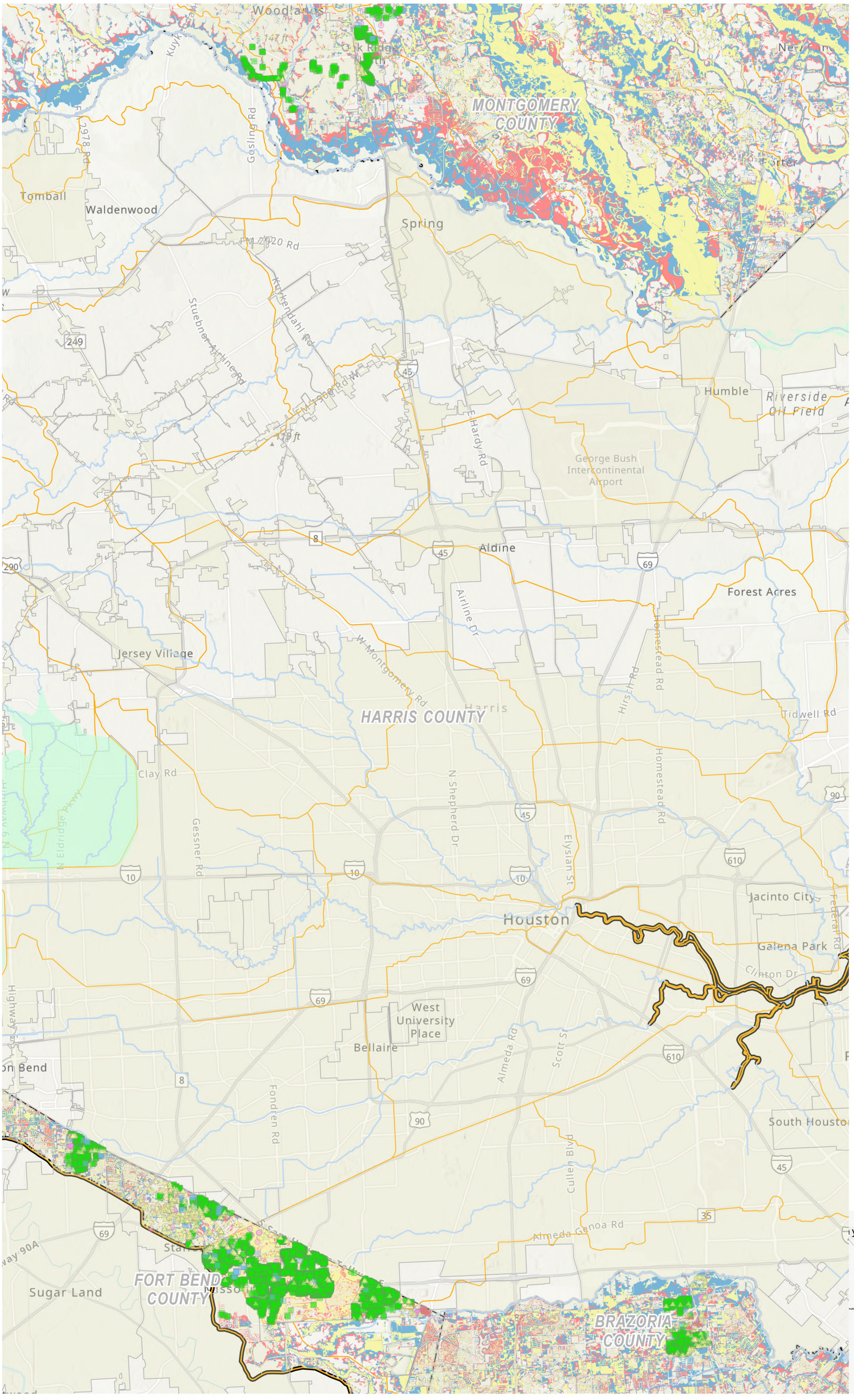

Legend

Existing Flood Exposure TXF-SVI >0.75

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SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Vulnerability

MAP 7
14 of 17 in series

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Prepared by Freese and Nichols, Inc.

NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Legend

Existing Flood Exposure TXF-SVI >0.75

- Agricultural Bldg
- Commercial Bldg
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- County
- Watersheds
- Region Boundary

N

0 1.75 3.5

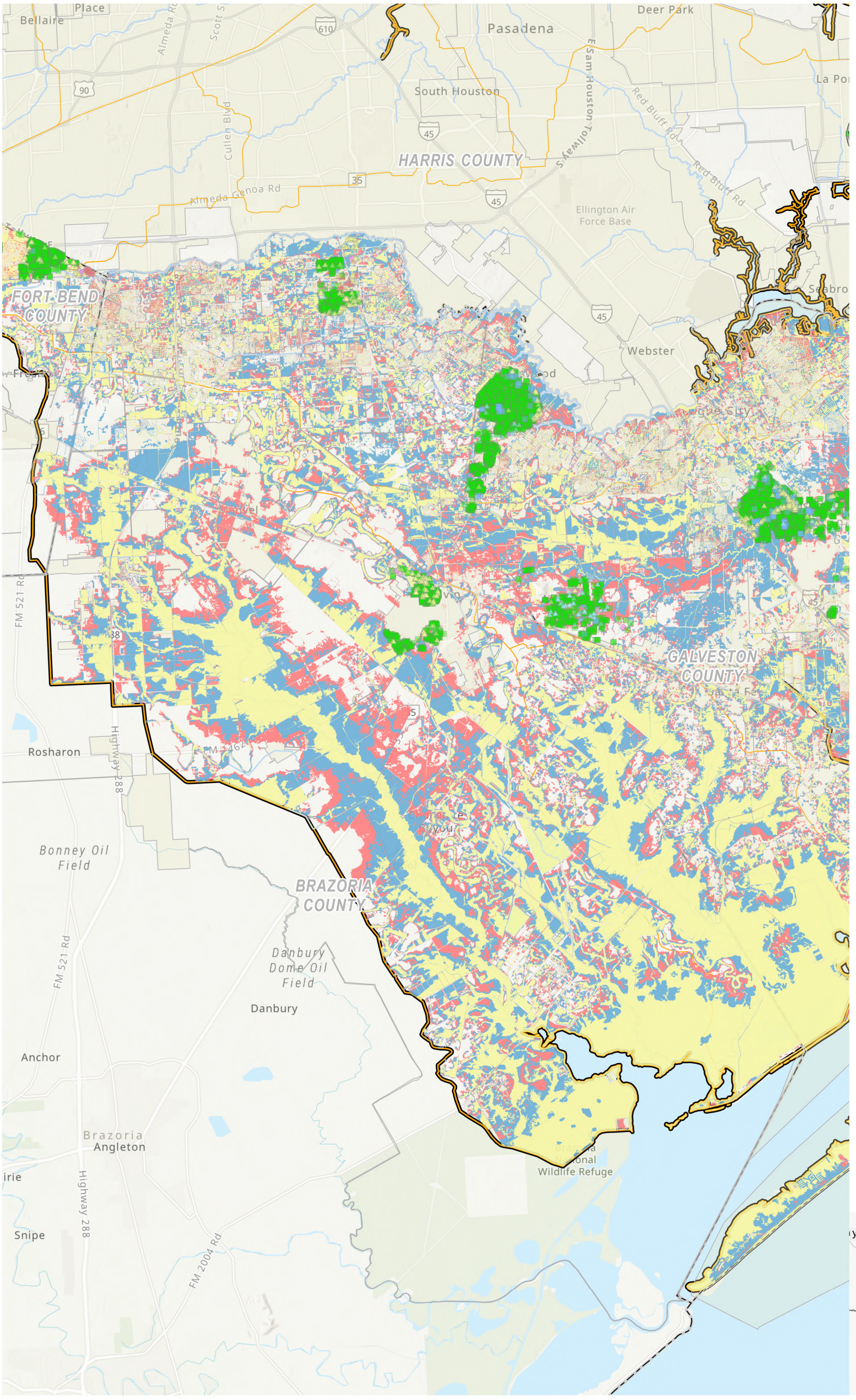
Miles

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Vulnerability

MAP 7
15 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6



Legend

Existing Flood Exposure TXF-SVI >0.75

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land

Existing Flood Hazard Area

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Reservoir
- Municipality
- County
- Watersheds
- Region Boundary

N

0 1.75 3.5

Miles

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Vulnerability

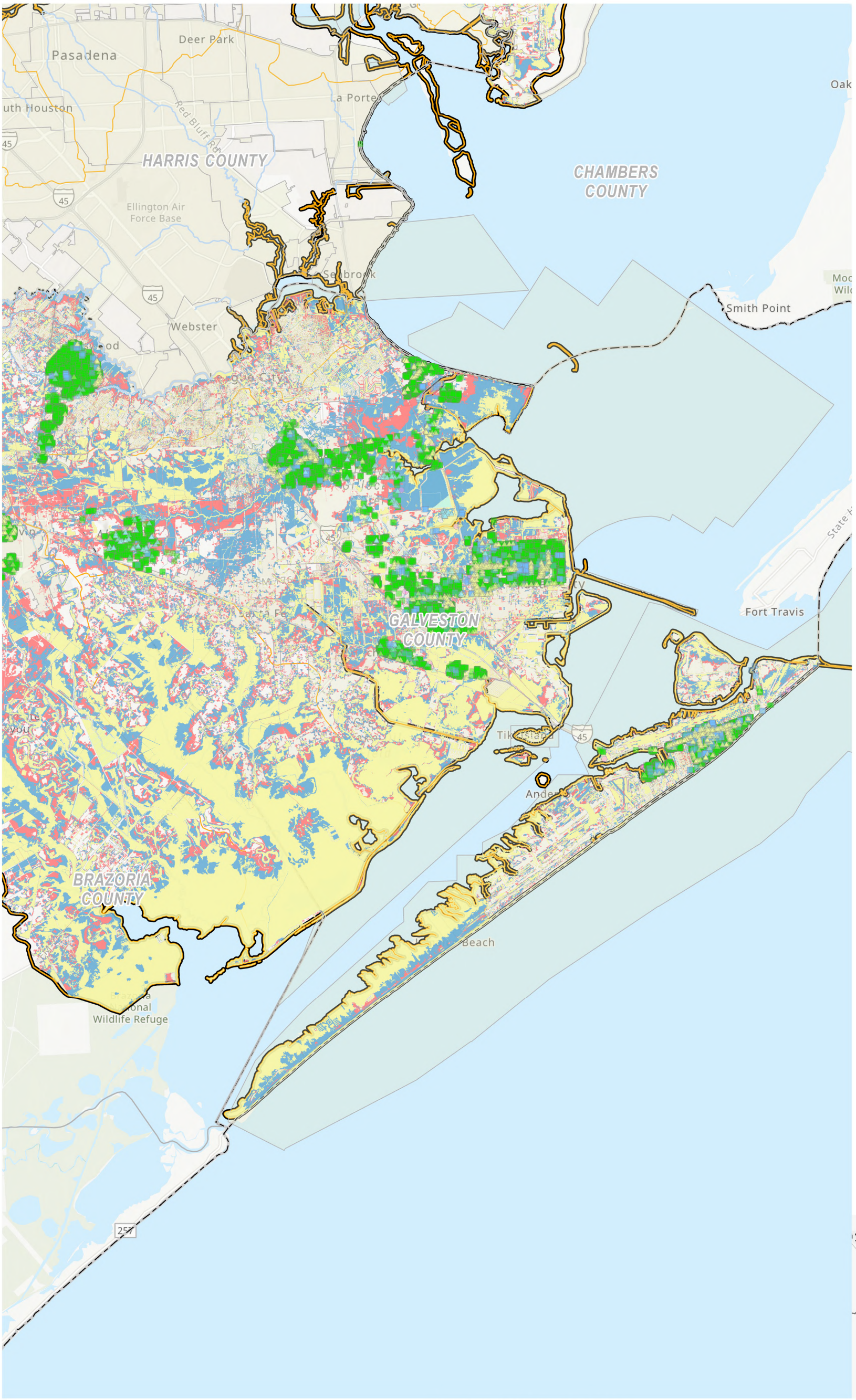
MAP 7
16 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

Prepared by Freese and Nichols, Inc.

NAD 1983 StatePlane Texas South Central FIPS 4204 Feet



Legend

Existing Flood Exposure TXF-SVI >0.75

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land

Existing Flood Hazard Area

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Reservoir
- Municipality
- County
- Watersheds
- Region Boundary

N

0 2.25 4.5

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Vulnerability

MAP 7
17 of 17 in series

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

Prepared by Freese and Nichols, Inc.

NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Appendix 2-B – Task 2B Maps

Map 8: Future Condition Flood Hazard

Legend

Future Flood Hazard

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Watersheds
- Municipality
- County
- Region Boundary

N

0 5 10

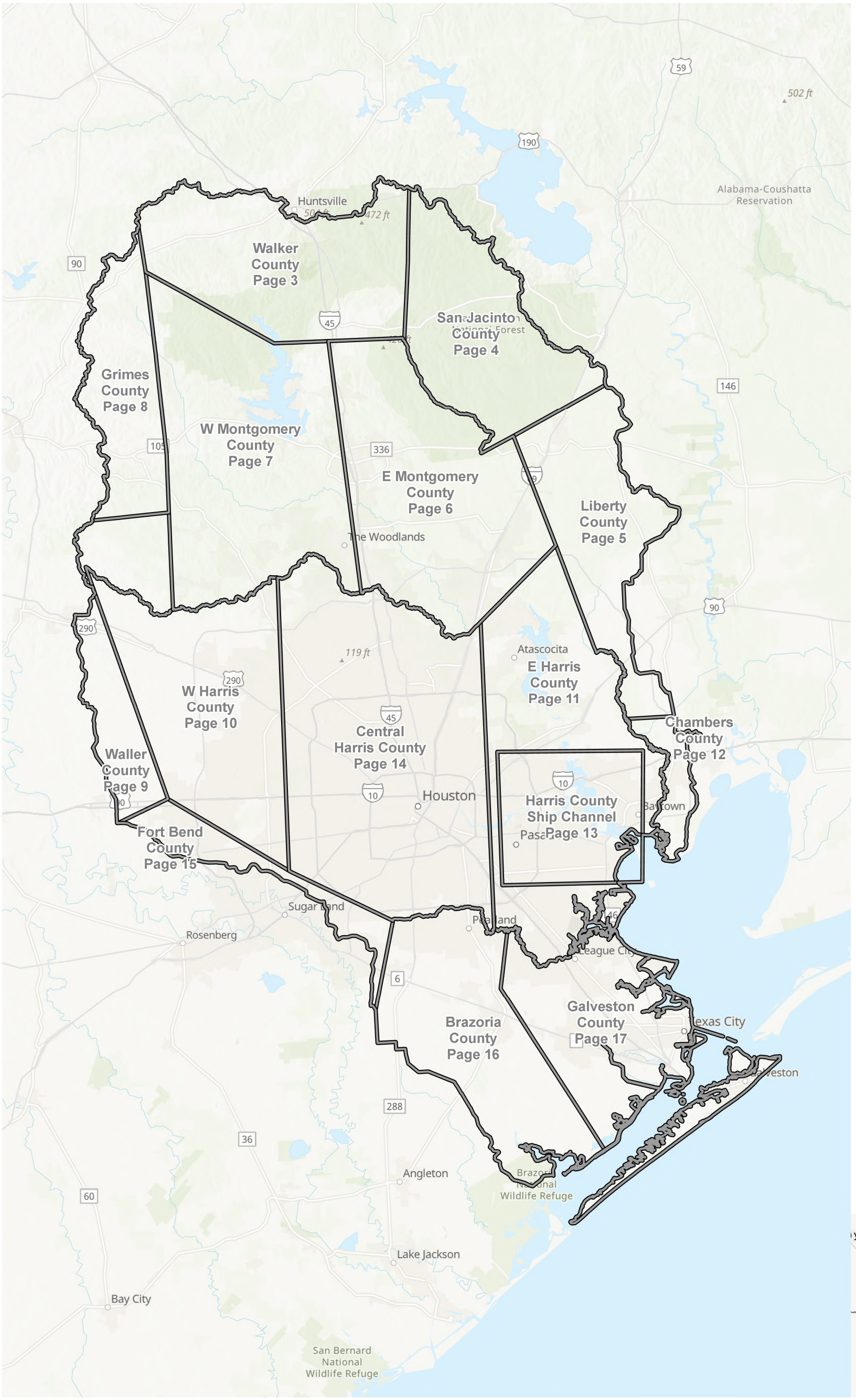
Miles

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Hazard

MAP 8
1 of 17 in series

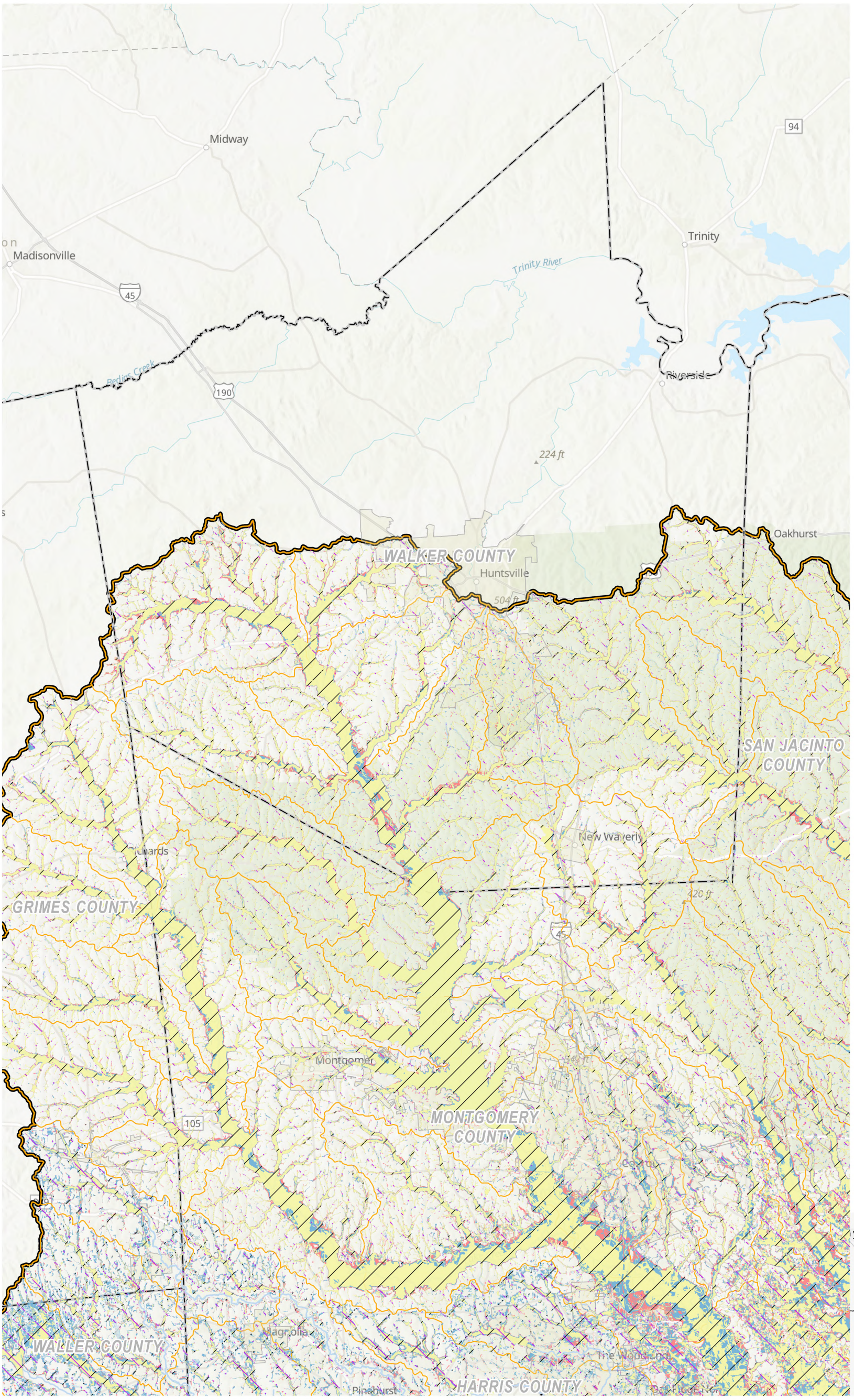
SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6



Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Hazard

MAP 8
2 of 17 in series



Legend

Flood Type

- Riverine
- Coastal
- Local

Future Flood Hazard

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 2.75 5.5

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

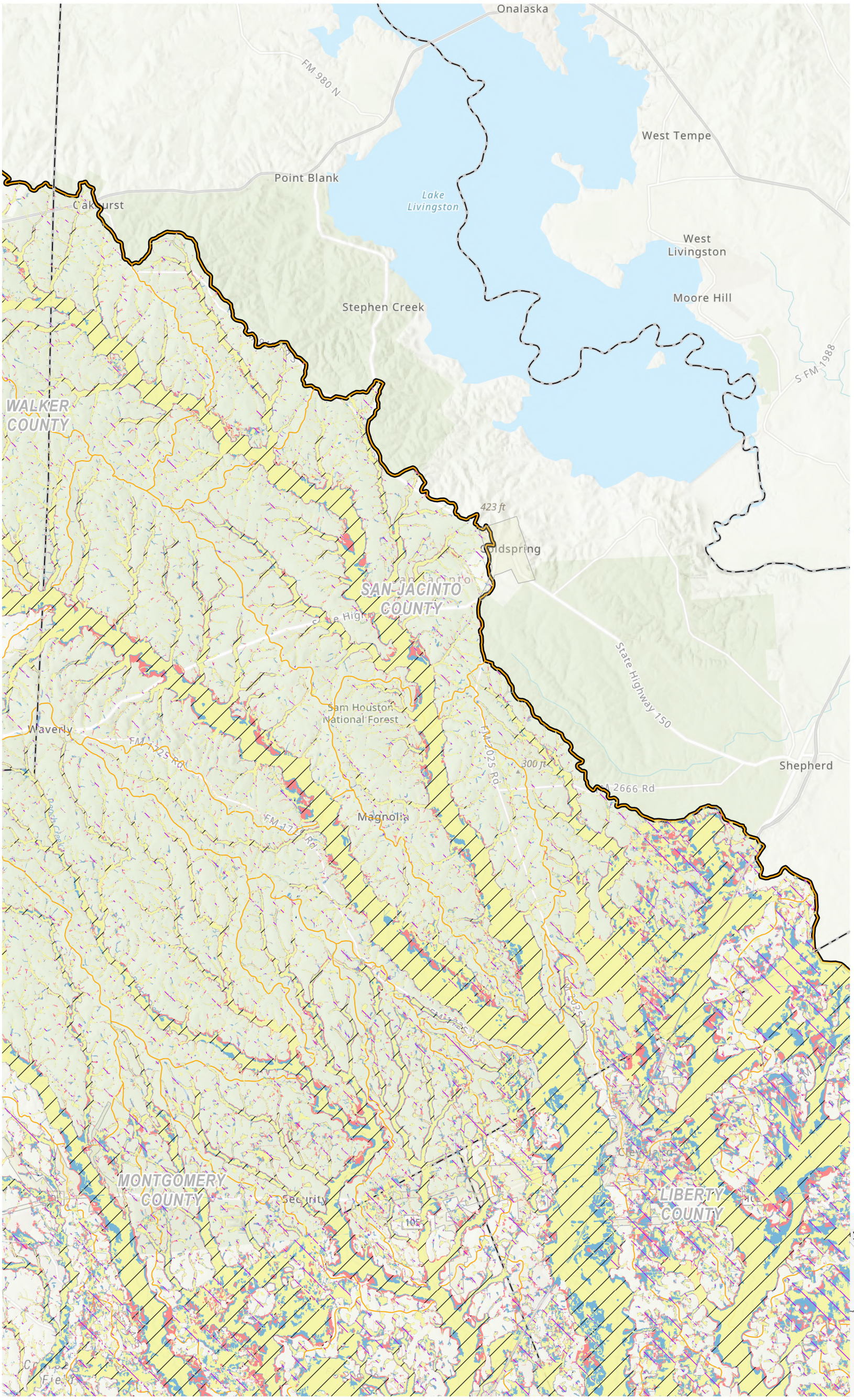
Future Condition Flood Hazard

MAP 8
3 of 17 in series

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

Prepared by Freese and Nichols, Inc.

NAD 1983 StatePlane Texas South Central FIPS 4204 Feet



Legend

Flood Type

- Riverine
- Coastal
- Local

Future Flood Hazard

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Hazard

MAP 8
4 of 17 in series

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

Prepared by Freese and Nichols, Inc.

NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Legend

Flood Type

- Riverine
- Coastal
- Local

Future Flood Hazard

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 1.75 3.5

Miles

Region 6 San Jacinto
2028 Regional Flood Plan
Future Condition Flood Hazard

MAP 8

5 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

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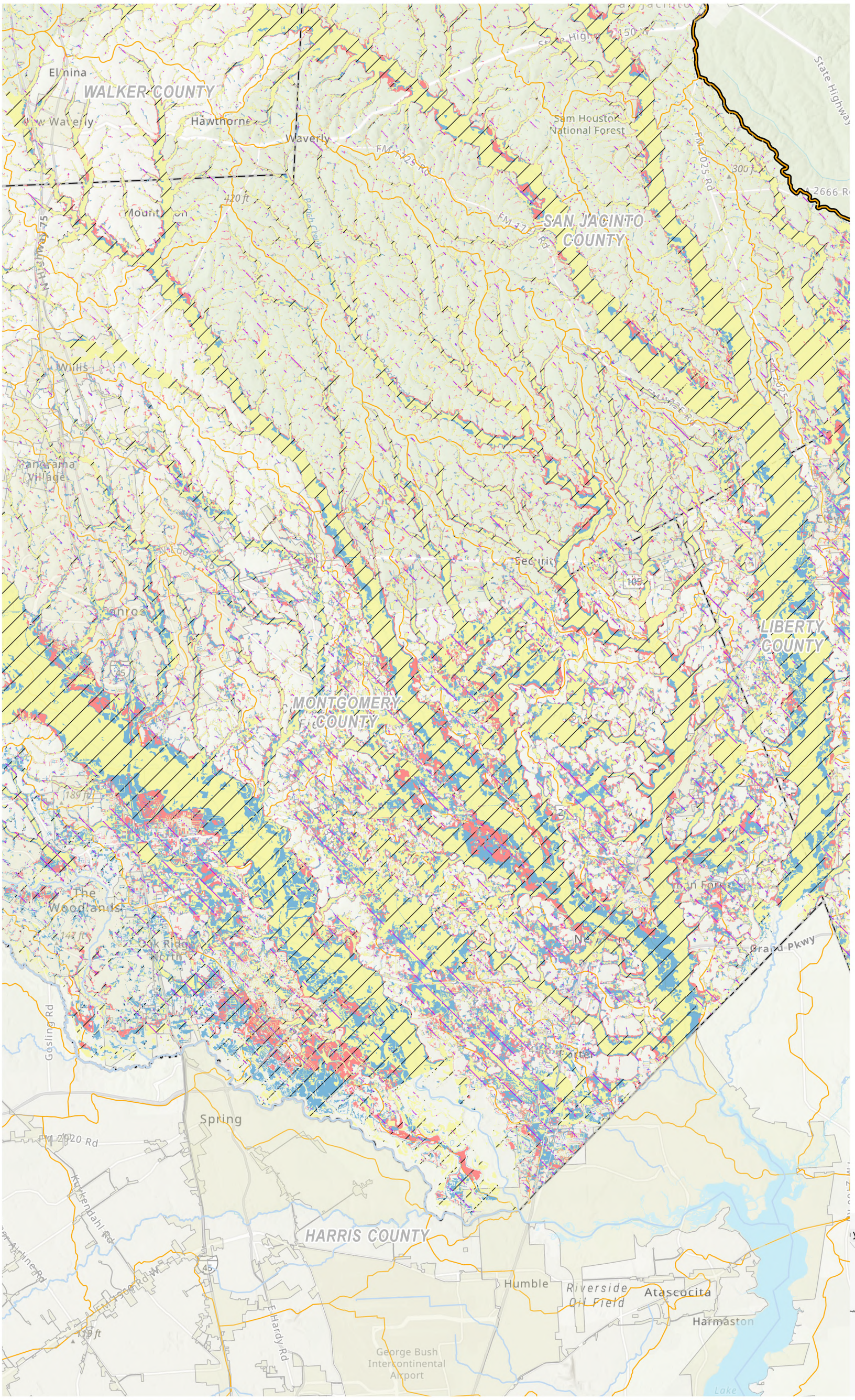

Legend

Flood Type

- Riverine
- Coastal
- Local

Future Flood Hazard

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 1.75 3.5

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan
Future Condition Flood Hazard

MAP 8

6 of 17 in series

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

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NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Legend

Flood Type

- Riverine
- Coastal
- Local

Future Flood Hazard

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 1.75 3.5

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Hazard

MAP 8
7 of 17 in series

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

Prepared by Freese and Nichols, Inc.

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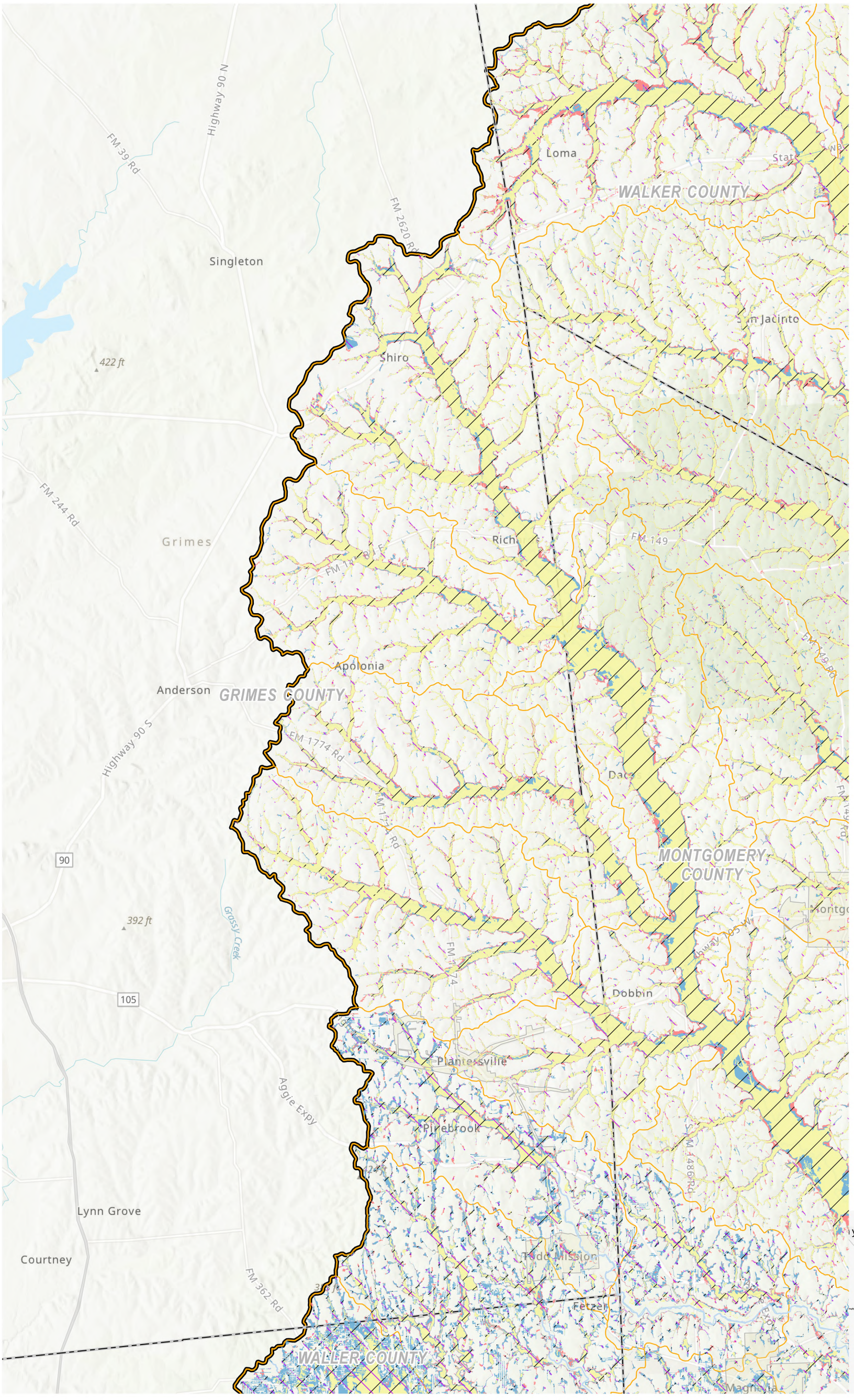
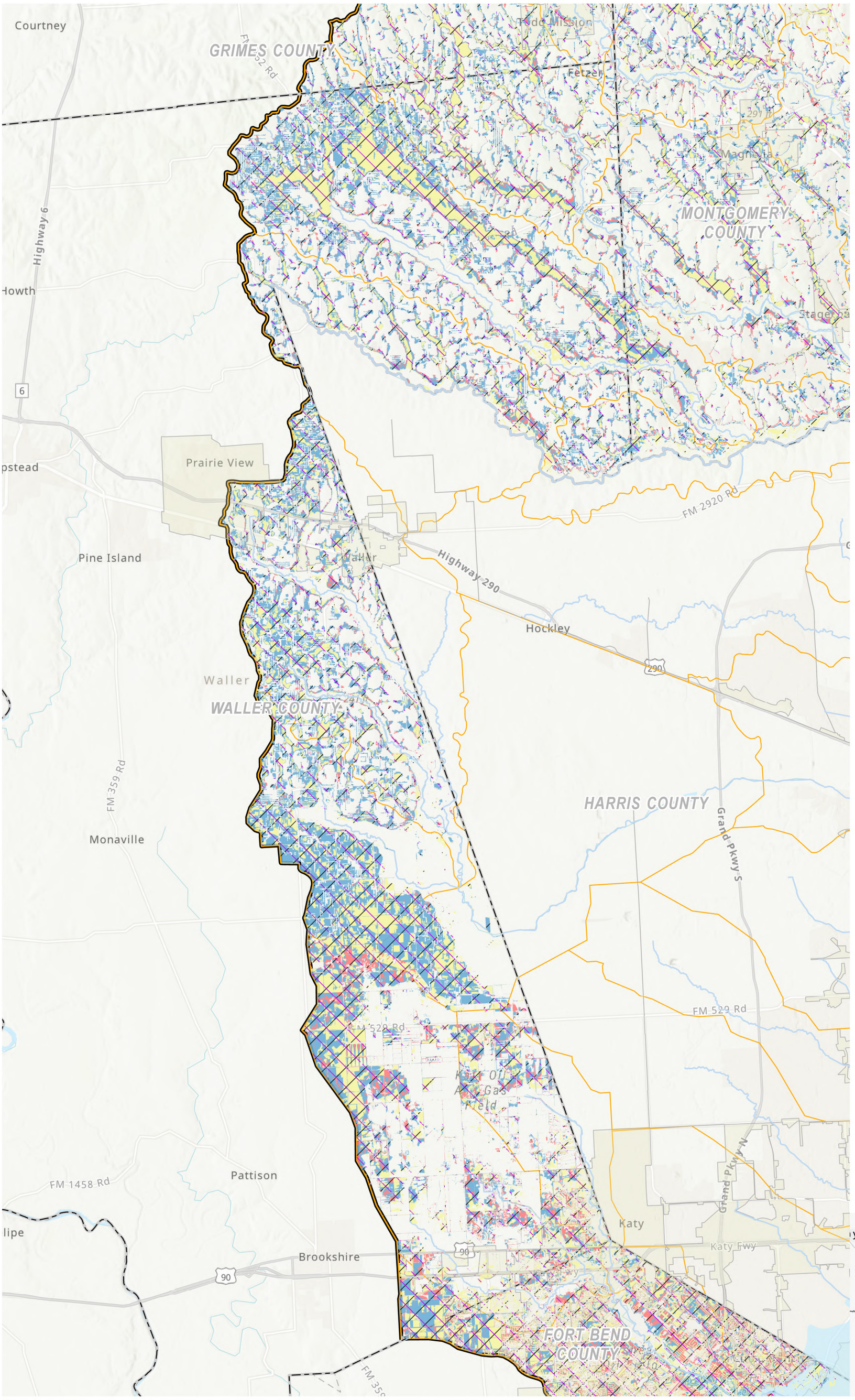


Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Hazard

MAP 8
8 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6



Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Hazard

MAP 8
9 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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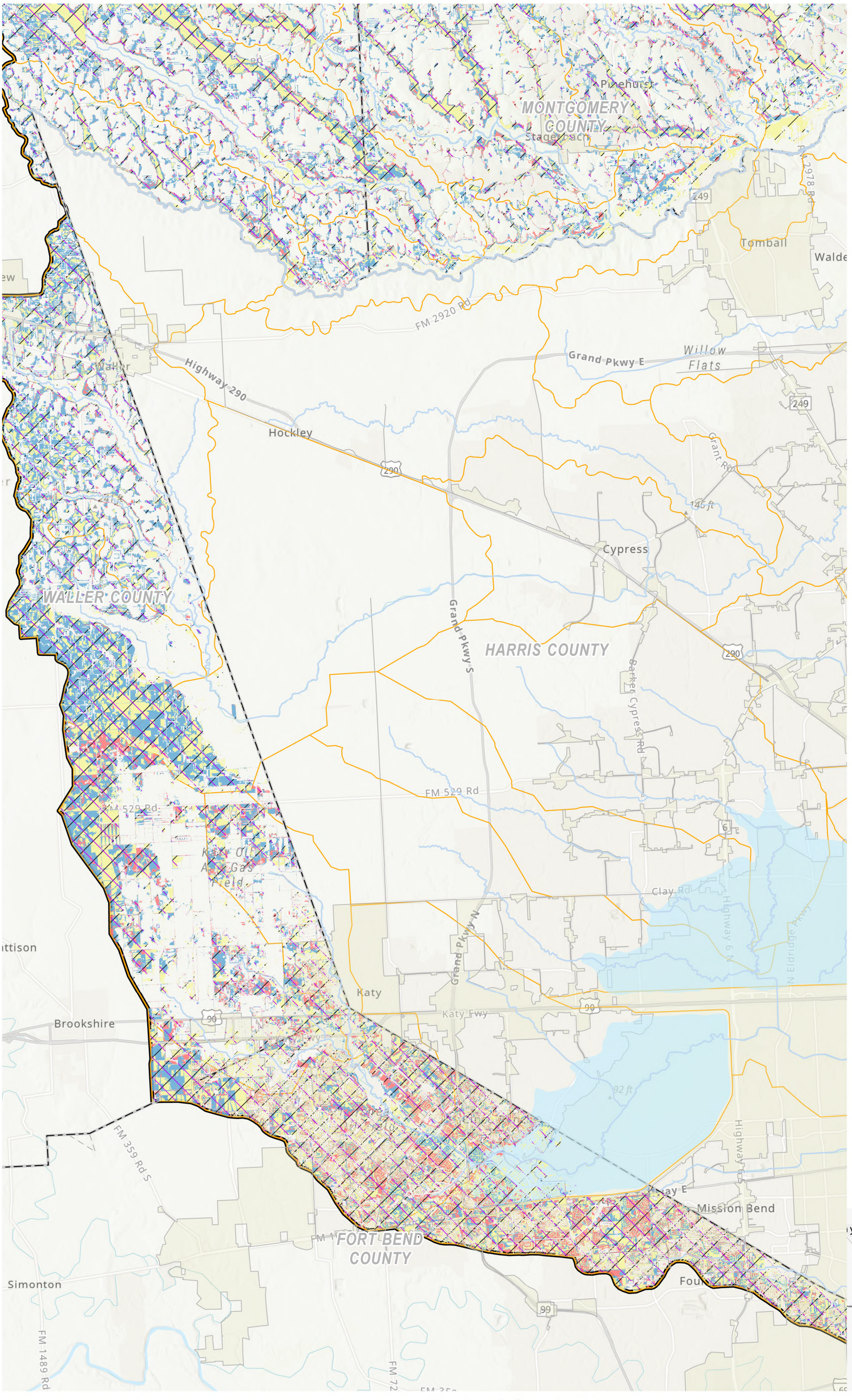

Legend

Flood Type

- Riverine
- Coastal
- Local

Future Flood Hazard

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area

- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 1.5 3

Miles

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Hazard

MAP 8
10 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

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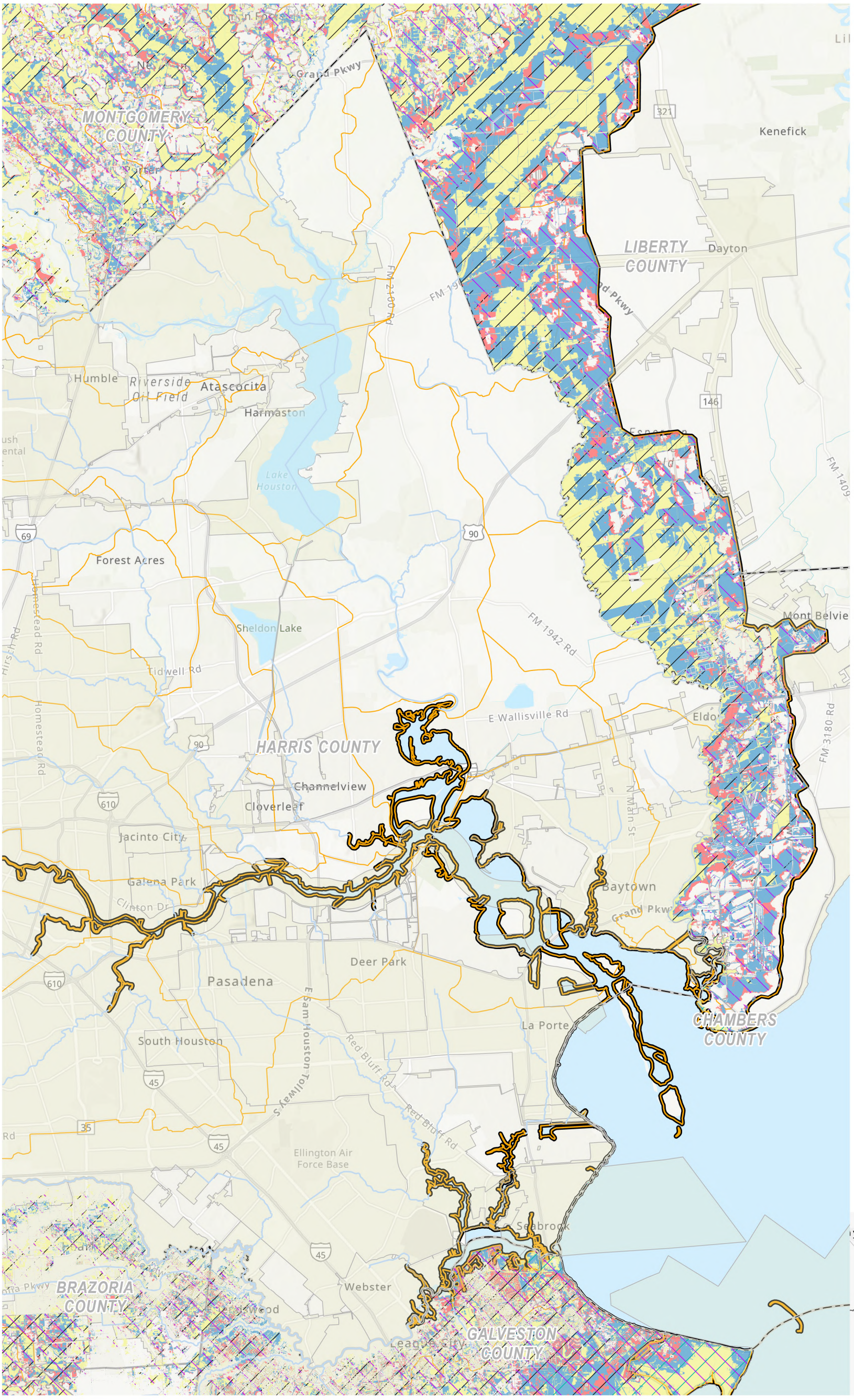

Legend

Flood Type

- Riverine
- Coastal
- Local

Future Flood Hazard

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area

- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan
Future Condition Flood Hazard

MAP 8
11 of 17 in series

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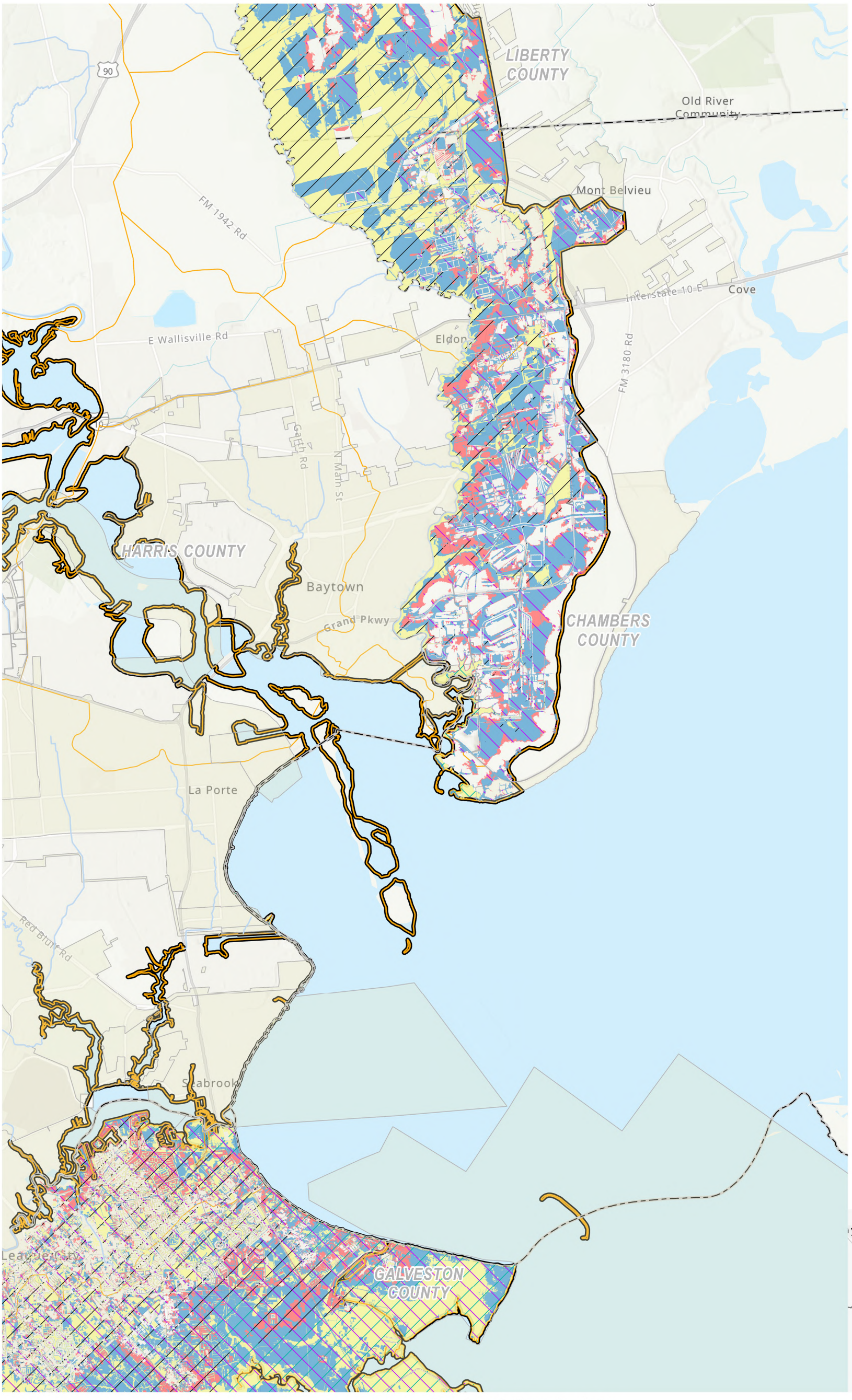

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Hazard

MAP 8
12 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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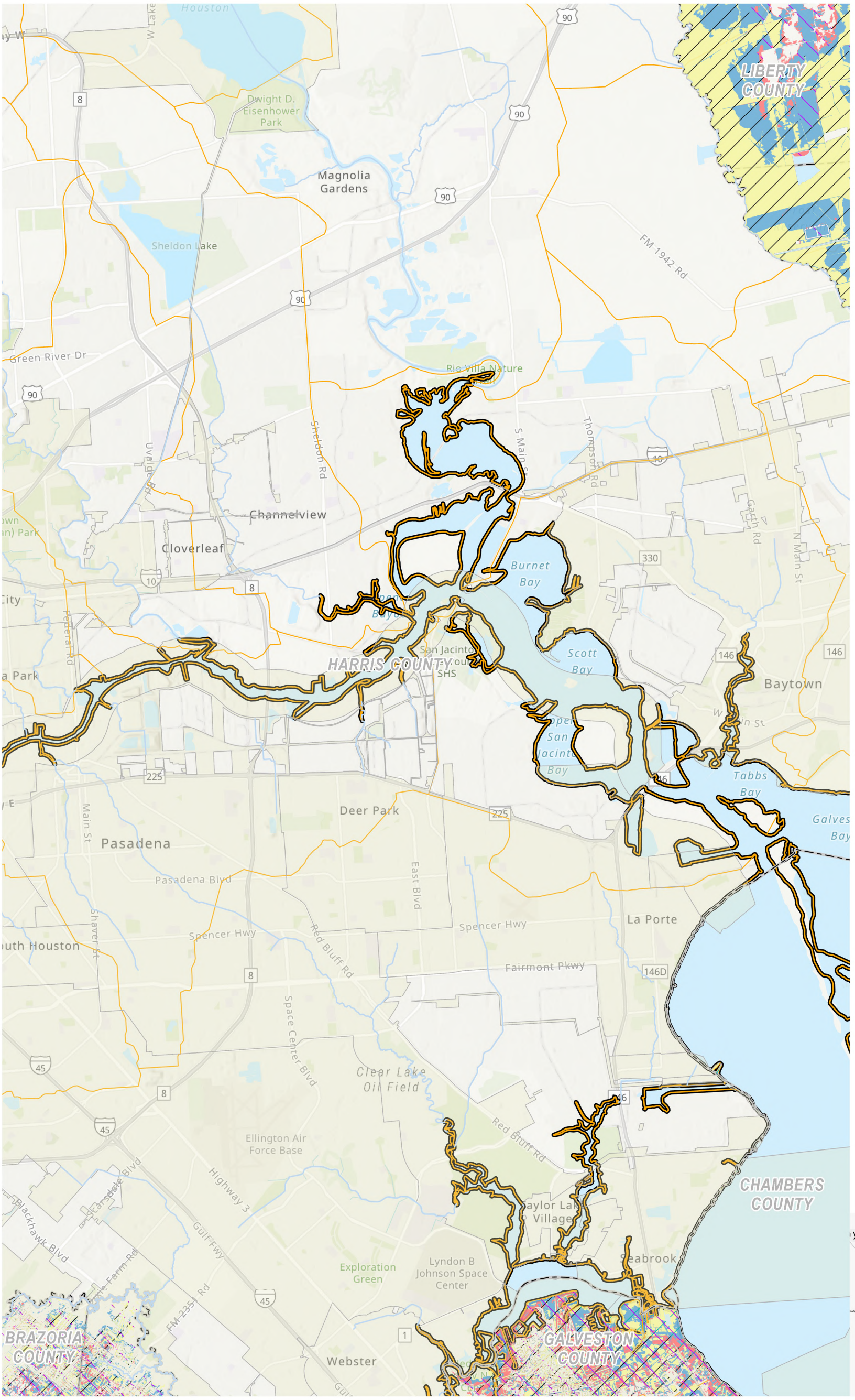

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Hazard

MAP 8
13 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Legend

Flood Type

- Riverine
- Coastal
- Local

Future Flood Hazard

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 1.75 3.5

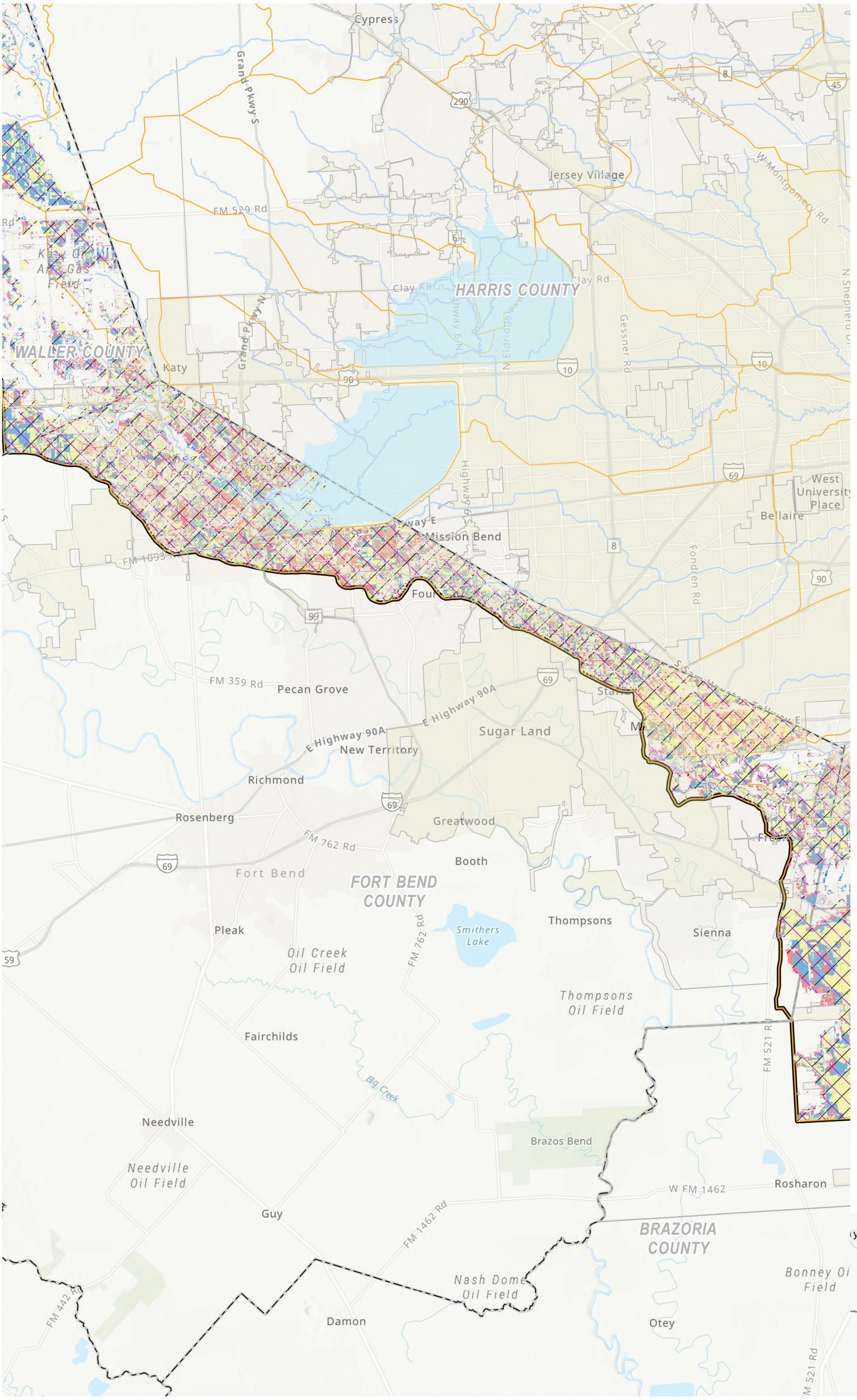
Miles

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Hazard

MAP 8
14 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6



Legend

Flood Type

- Riverine
- Coastal
- Local

Future Flood Hazard

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 1.75 3.5

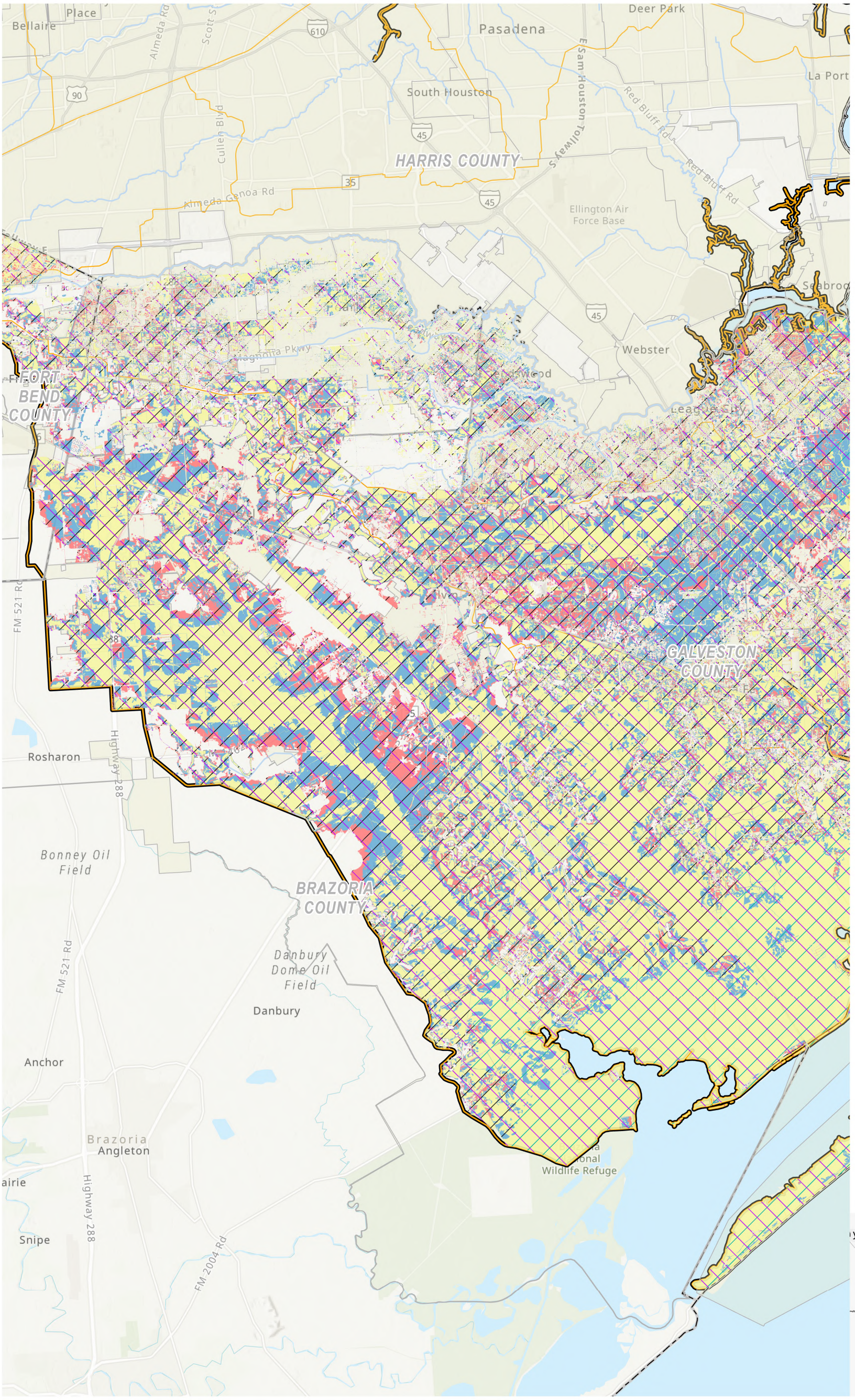
Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan
Future Condition Flood Hazard

MAP 8

15 of 17 in series



Legend

Flood Type

- Riverine
- Coastal
- Local

Future Flood Hazard

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 1.75 3.5

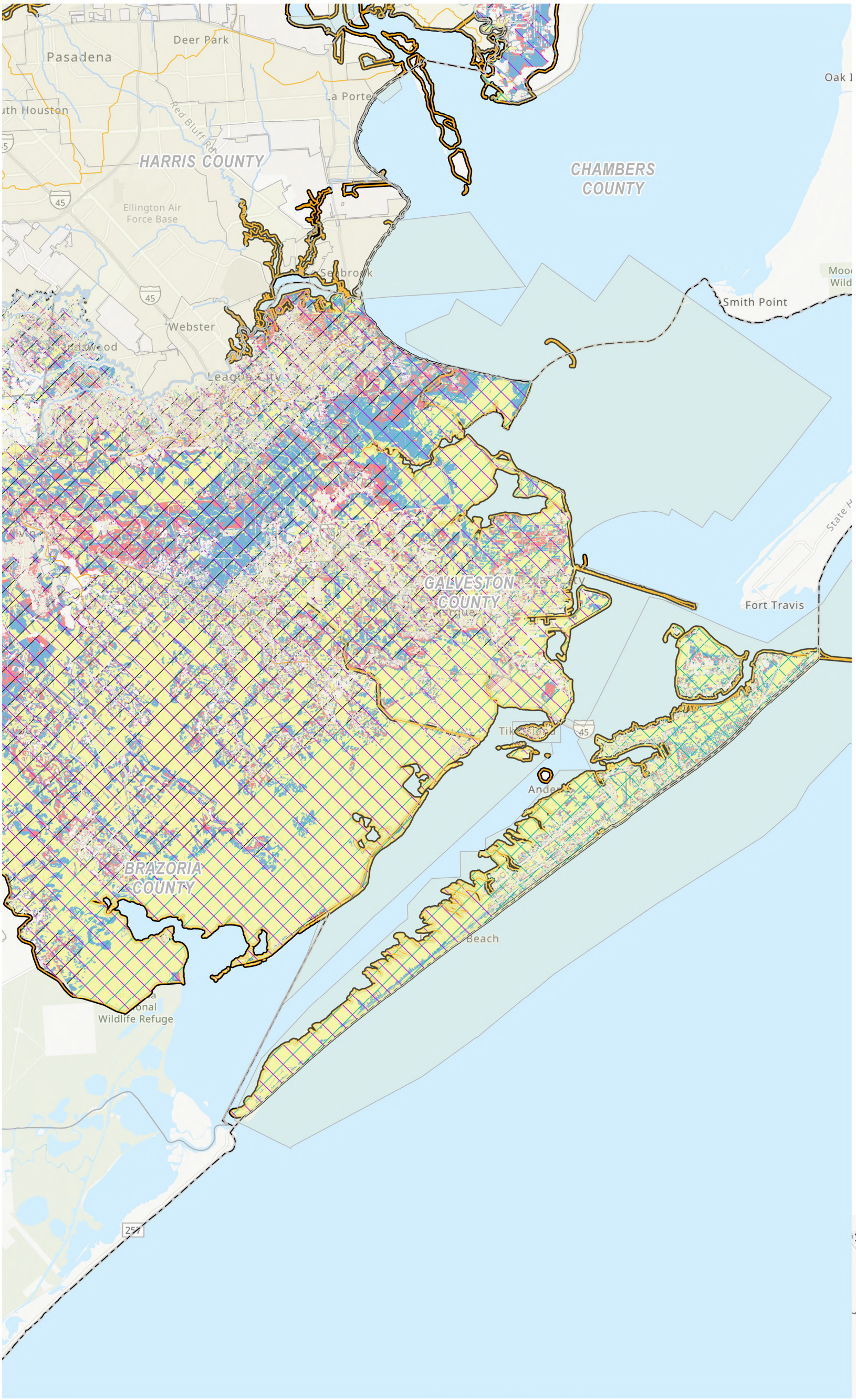
Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Hazard

MAP 8
16 of 17 in series



Legend

Flood Type

- Riverine
- Coastal
- Local

Future Flood Hazard

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area

- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 2.25 4.5

Miles

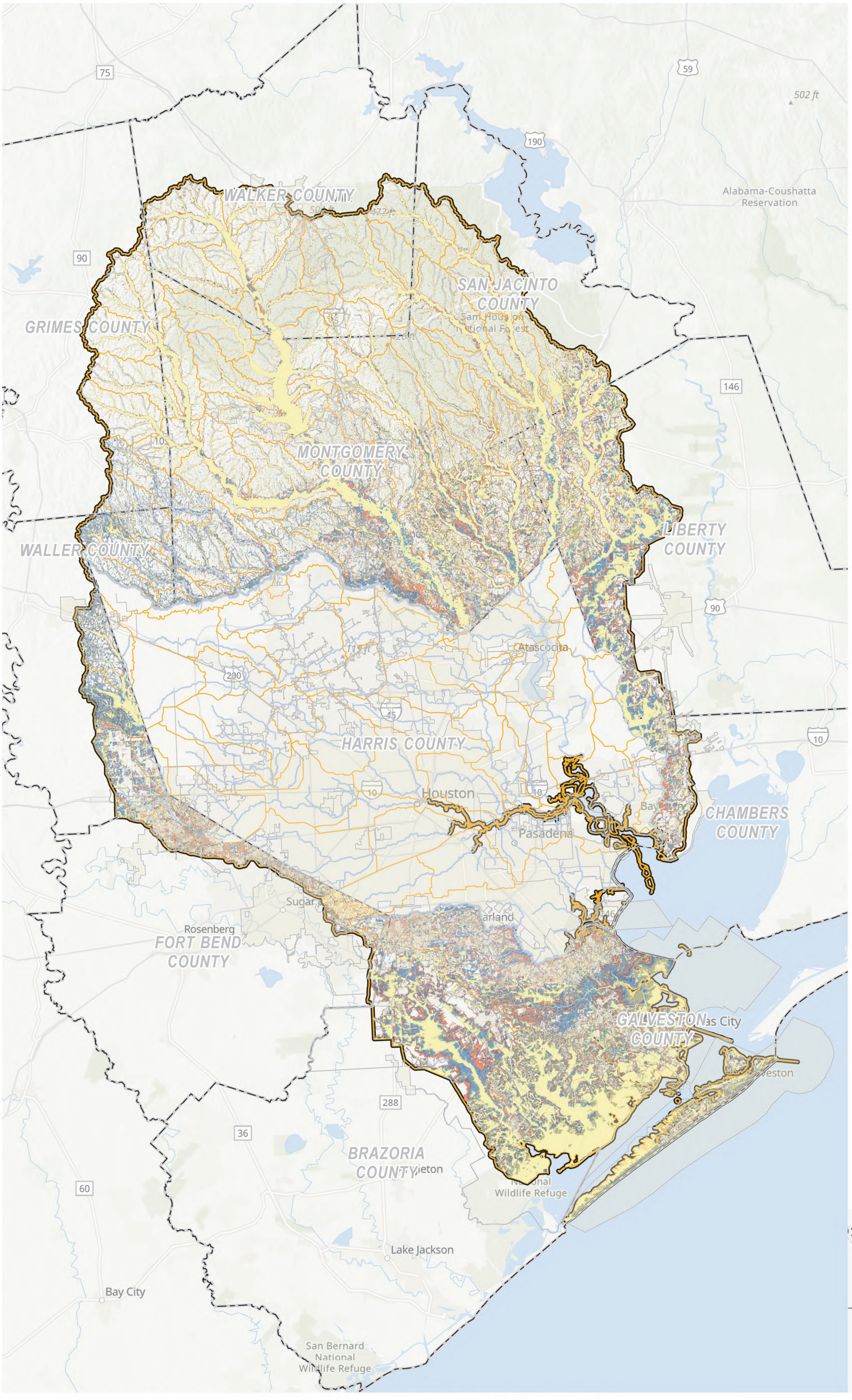
SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Hazard

MAP 8
17 of 17 in series

Map 9: Extent of Increase of Flood Hazard Compared to Existing Condition



Legend

Flood Hazard

- Existing 10yr
- Future10yr
- Existing 100yr
- Future 100yr
- Existing 500yr
- Future 500yr
- Streams
- Watersheds
- Municipality
- County
- Region Boundary

N

0 5 10

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan
Extent Increase of Flood Hazard

MAP 9

1 of 17 in series

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

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NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Legend

Index

Walker County Page 3

San Jacinto County Page 4

Grimes County Page 8

W Montgomery County Page 7

E Montgomery County Page 6

Liberty County Page 5

W Harris County Page 10

E Harris County Page 11

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Harris County Ship Channel Page 13

Chambers County Page 12

Fort Bend County Page 15

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Galveston County Page 17

Huntsville

The Woodlands

Atascocita

Houston

Sugar Land

Rosenberg

Angleton

Lake Jackson

Bay City

Alabama-Coushatta Reservation

Brazoria National Wildlife Refuge

San Bernard National Wildlife Refuge

N

0 5 10

Miles

Region 6 San Jacinto
2028 Regional Flood Plan
Extent Increase of Flood Hazard

MAP 9

2 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP REGION 6

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

Prepared by Freese and Nichols, Inc.

NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Legend

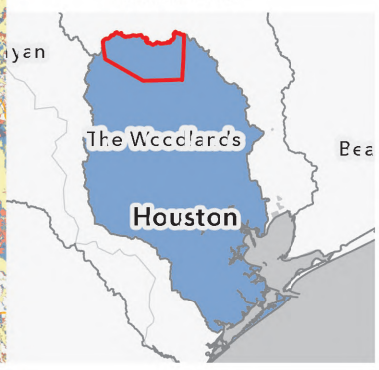
Flood Hazard

- Existing 10yr
- Future10yr
- Existing 100yr
- Future 100yr
- Existing 500yr
- Future 500yr
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 2.75 5.5

Miles



SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Extent Increase of Flood Hazard

MAP 9
3 of 17 in series

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

Prepared by Freese and Nichols, Inc.

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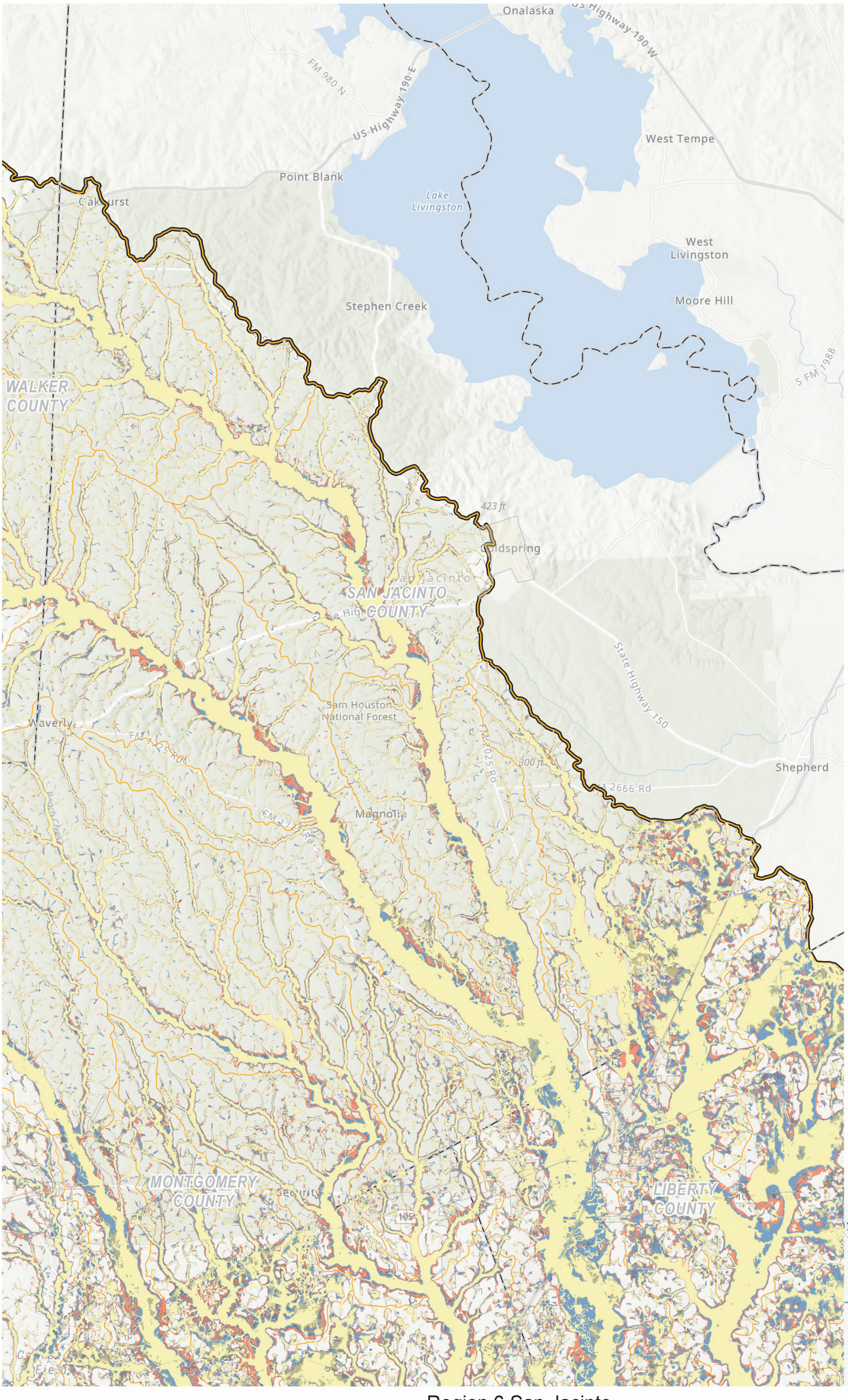

Legend

Flood Hazard

- Existing 10yr
- Future10yr
- Existing 100yr
- Future 100yr
- Existing 500yr
- Future 500yr
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Extent Increase of Flood Hazard

MAP 9
4 of 17 in series

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

Prepared by Freese and Nichols, Inc.

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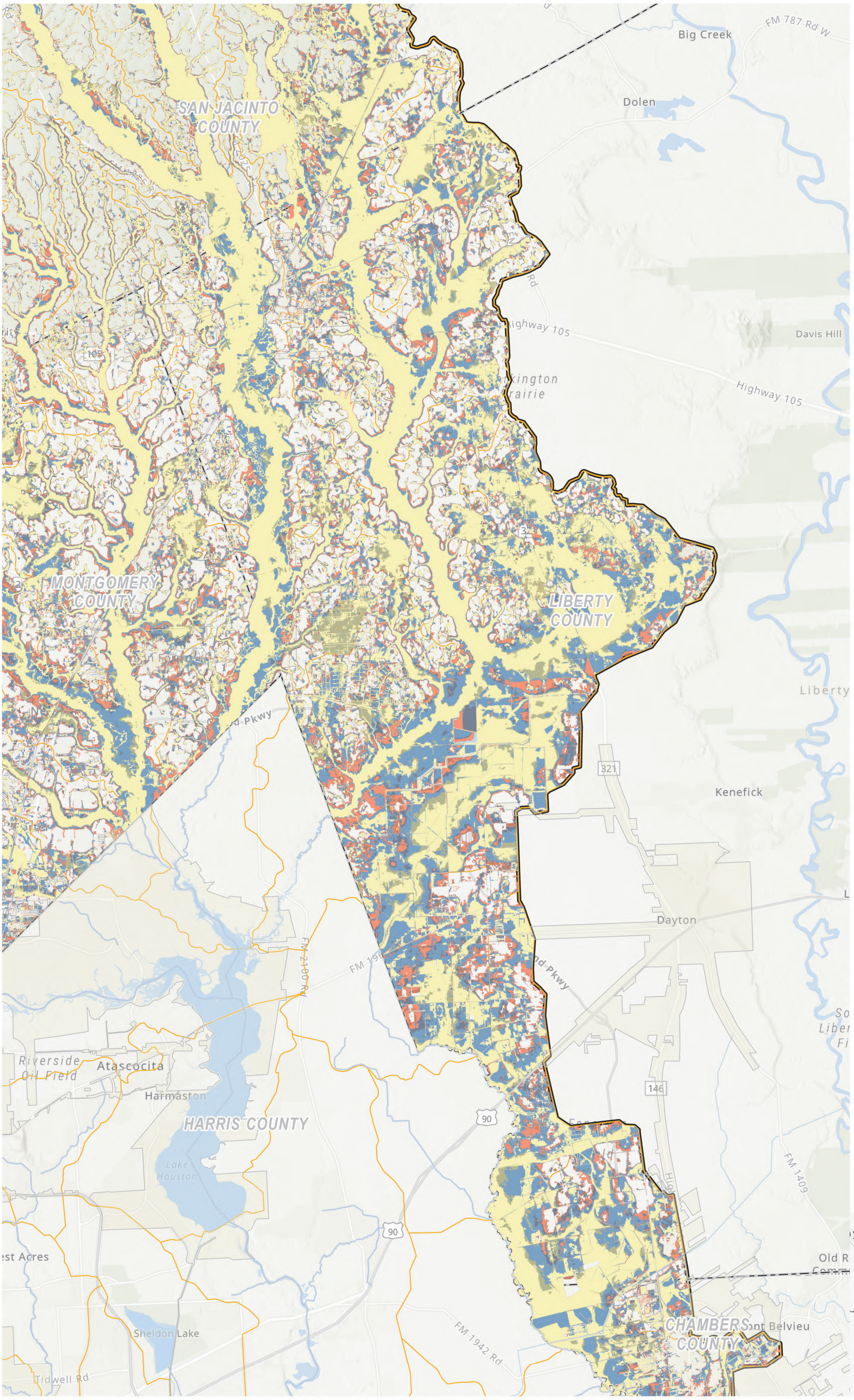

Region 6 San Jacinto
2028 Regional Flood Plan

Extent Increase of Flood Hazard

MAP 9
5 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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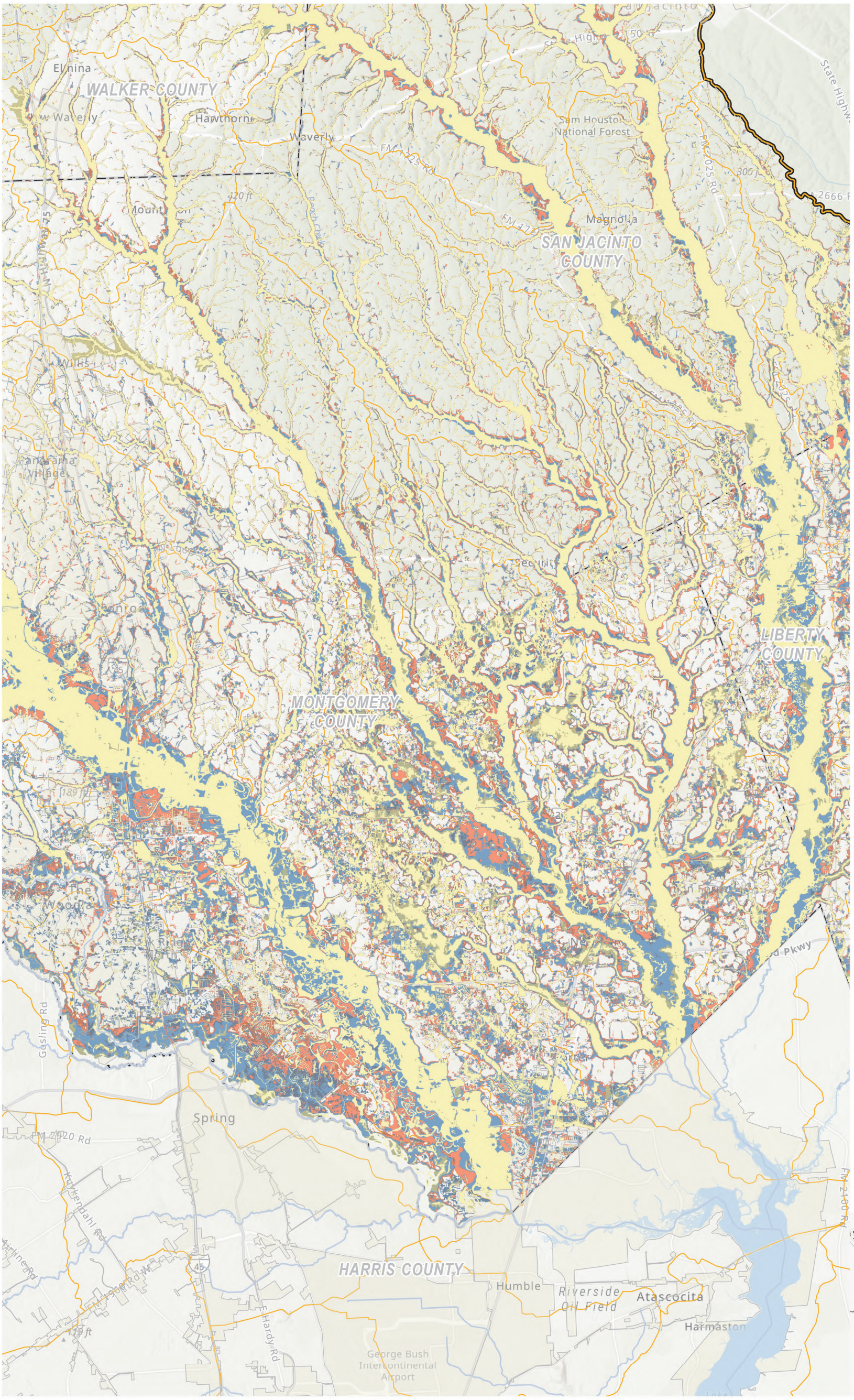


Legend

Flood Hazard

- Existing 10yr
- Future10yr
- Existing 100yr
- Future 100yr
- Existing 500yr
- Future 500yr
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

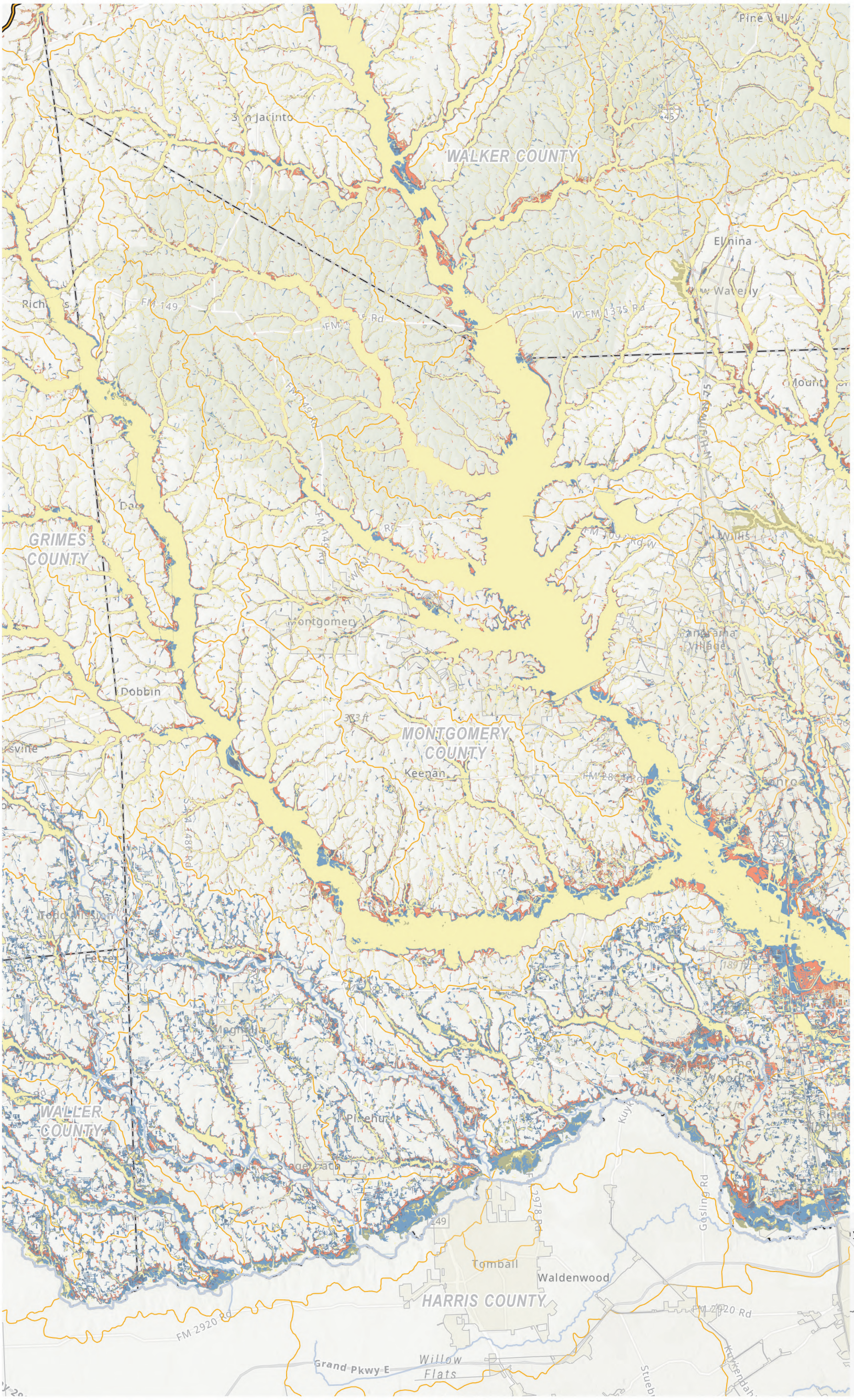
Region 6 San Jacinto
2028 Regional Flood Plan
Extent Increase of Flood Hazard

MAP 9
6 of 17 in series

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

Prepared by Freese and Nichols, Inc.

NAD 1983 StatePlane Texas South Central FIPS 4204 Feet



Region 6 San Jacinto
2028 Regional Flood Plan

Extent Increase of Flood Hazard

MAP 9
7 of 17 in series

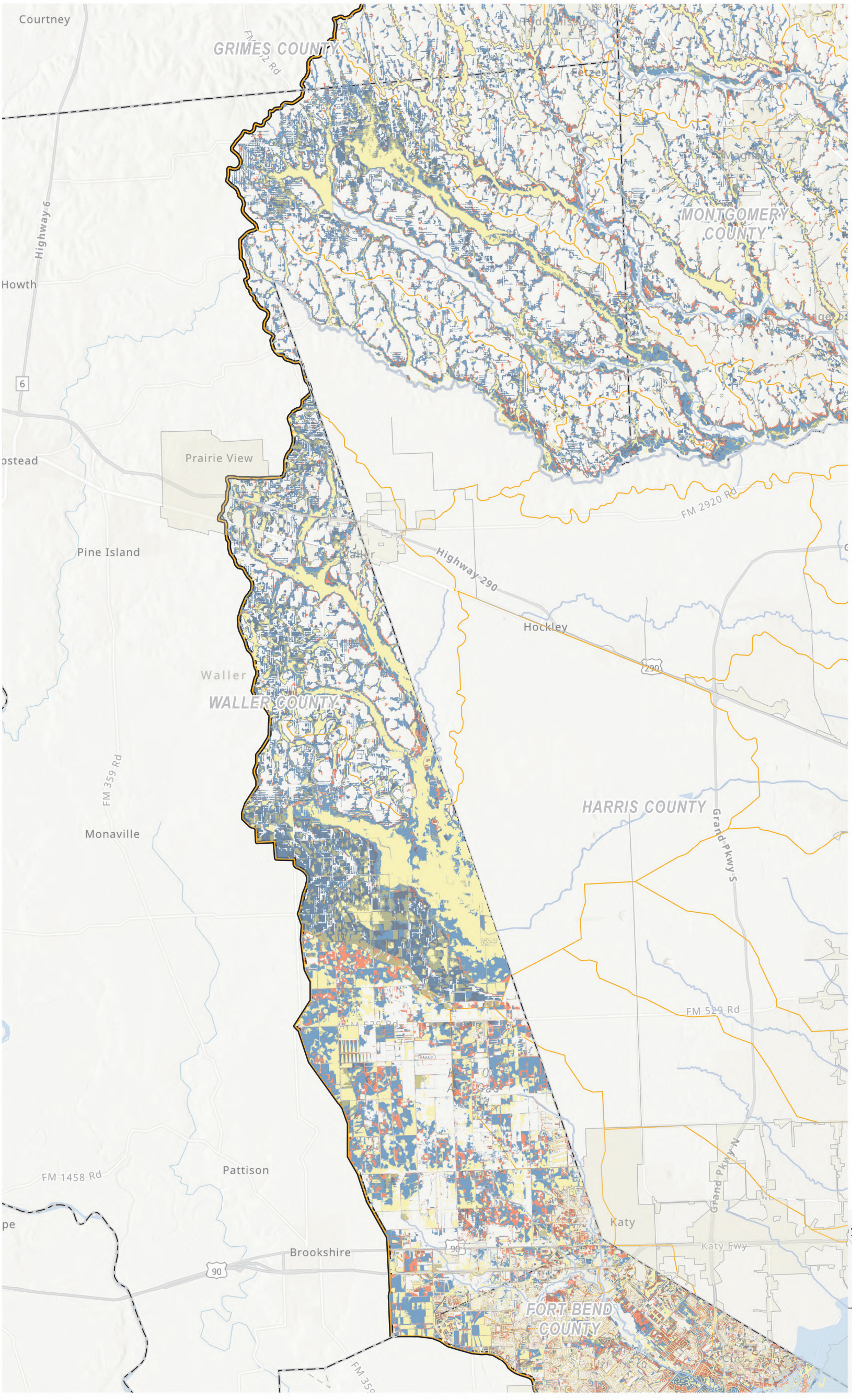
SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Extent Increase of Flood Hazard

MAP 9
8 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6



Region 6 San Jacinto
2028 Regional Flood Plan

Extent Increase of Flood Hazard

MAP 9
9 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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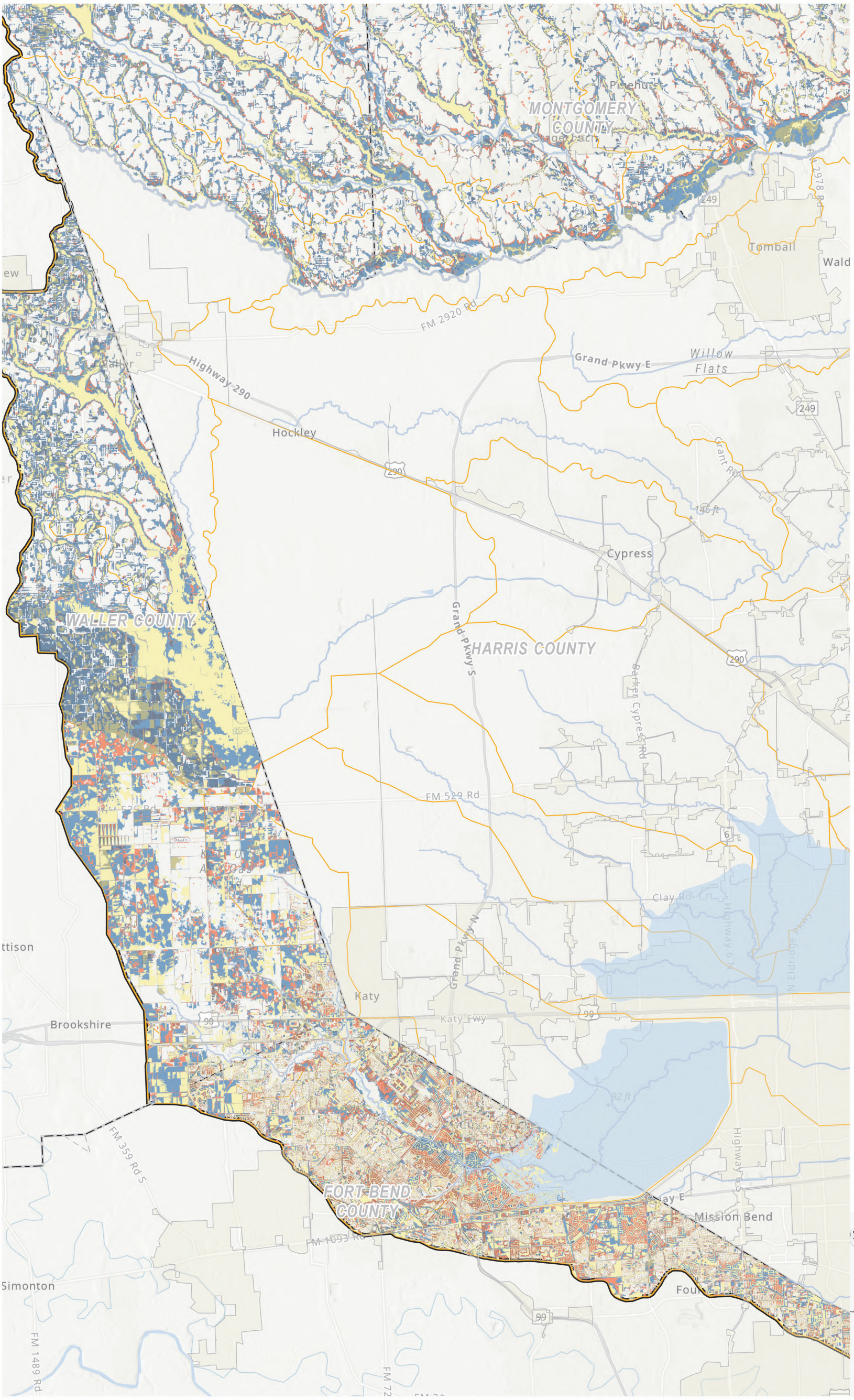
Prepared by Freese and Nichols, Inc.

NAD 1983 StatePlane Texas South Central FIPS 4204 Feet



Legend

Flood Hazard

- Existing 10yr
- Future10yr
- Existing 100yr
- Future 100yr
- Existing 500yr
- Future 500yr
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 1.5 3

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Extent Increase of Flood Hazard

MAP 9
10 of 17 in series

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

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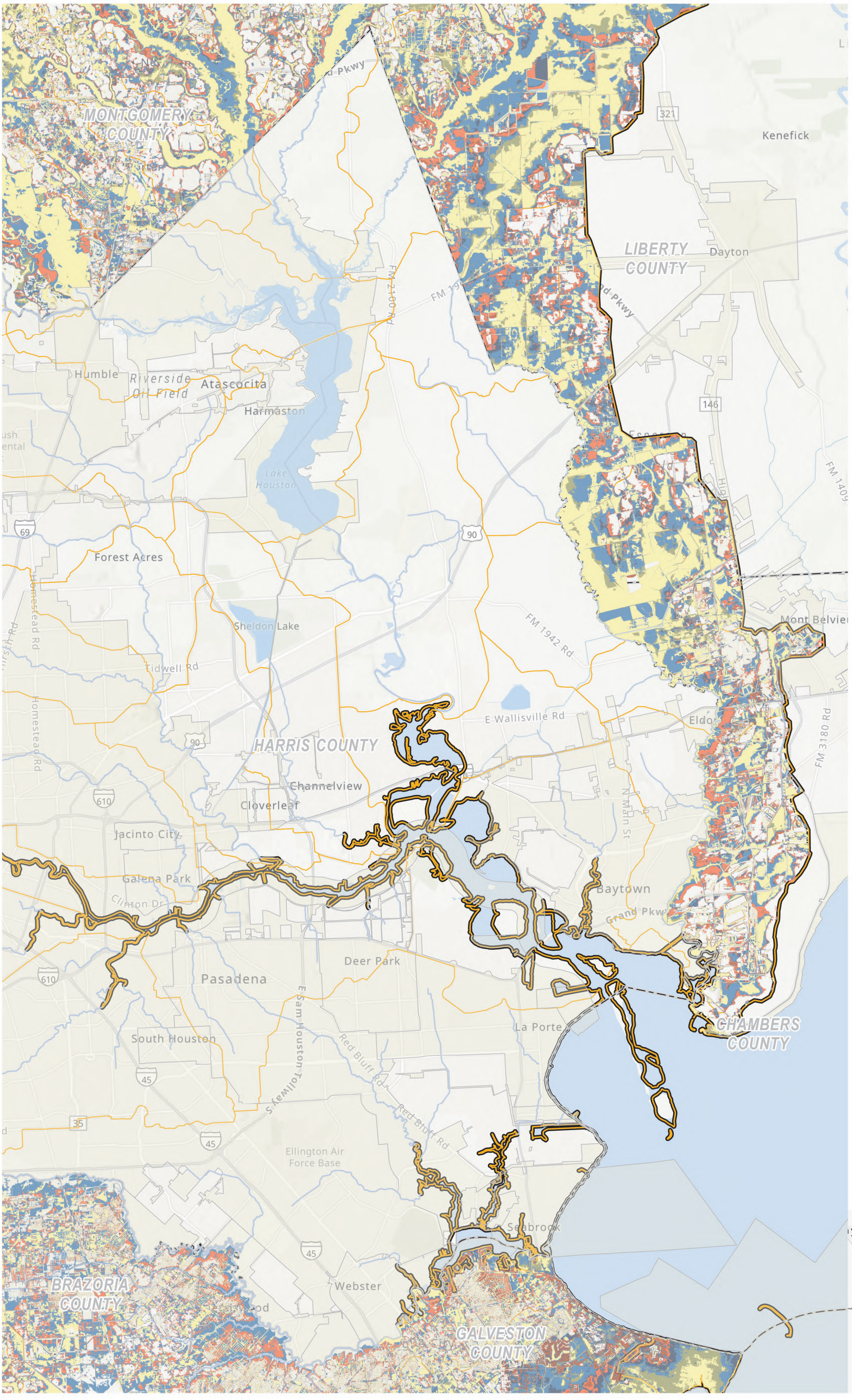
NAD 1983 StatePlane Texas South Central FIPS 4204 Feet



Region 6 San Jacinto
2028 Regional Flood Plan

Extent Increase of Flood Hazard

MAP 9
11 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

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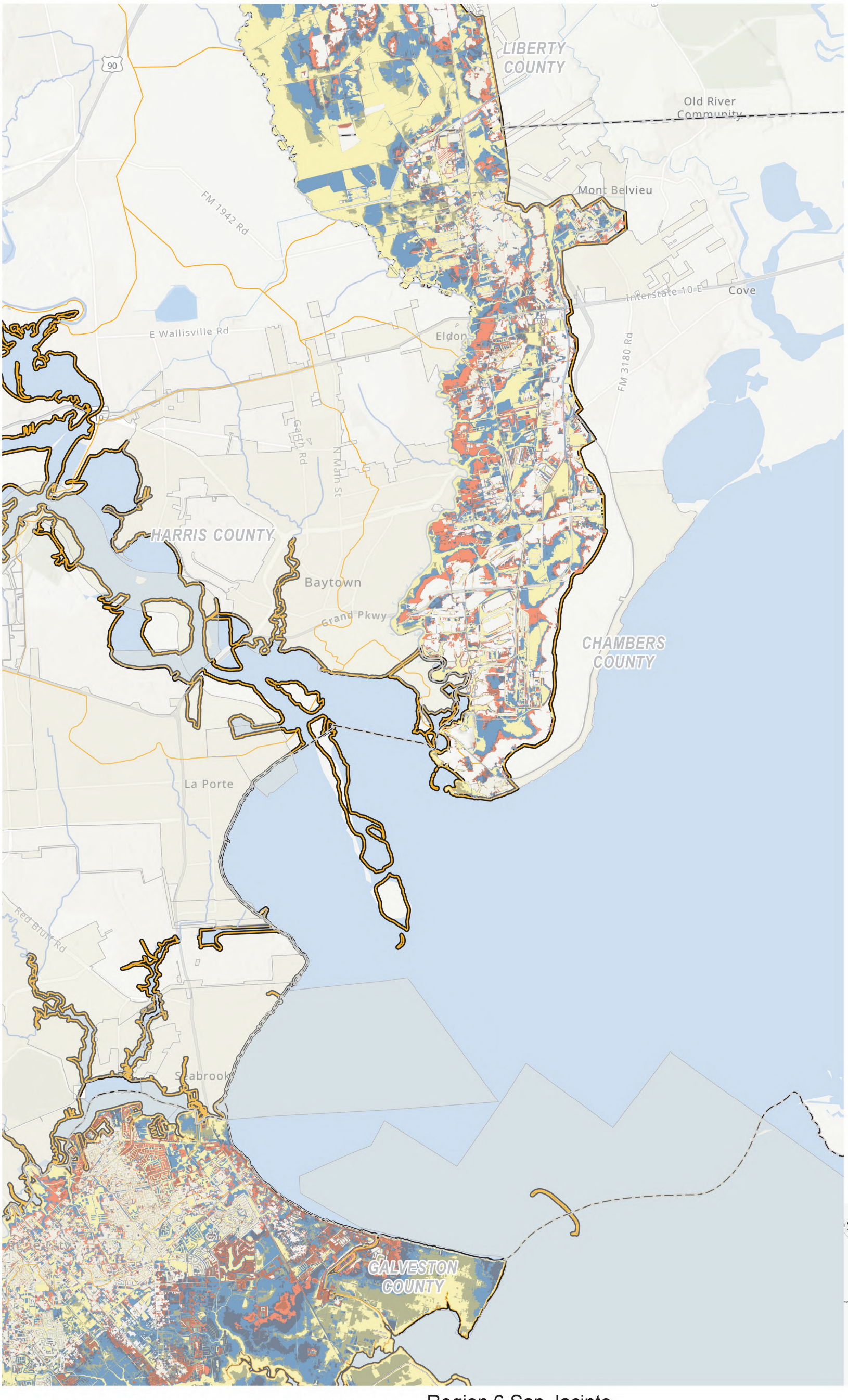

Legend

Flood Hazard

- Existing 10yr
- Future10yr
- Existing 100yr
- Future 100yr
- Existing 500yr
- Future 500yr
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 1.25 2.5

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Extent Increase of Flood Hazard

MAP 9
12 of 17 in series

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

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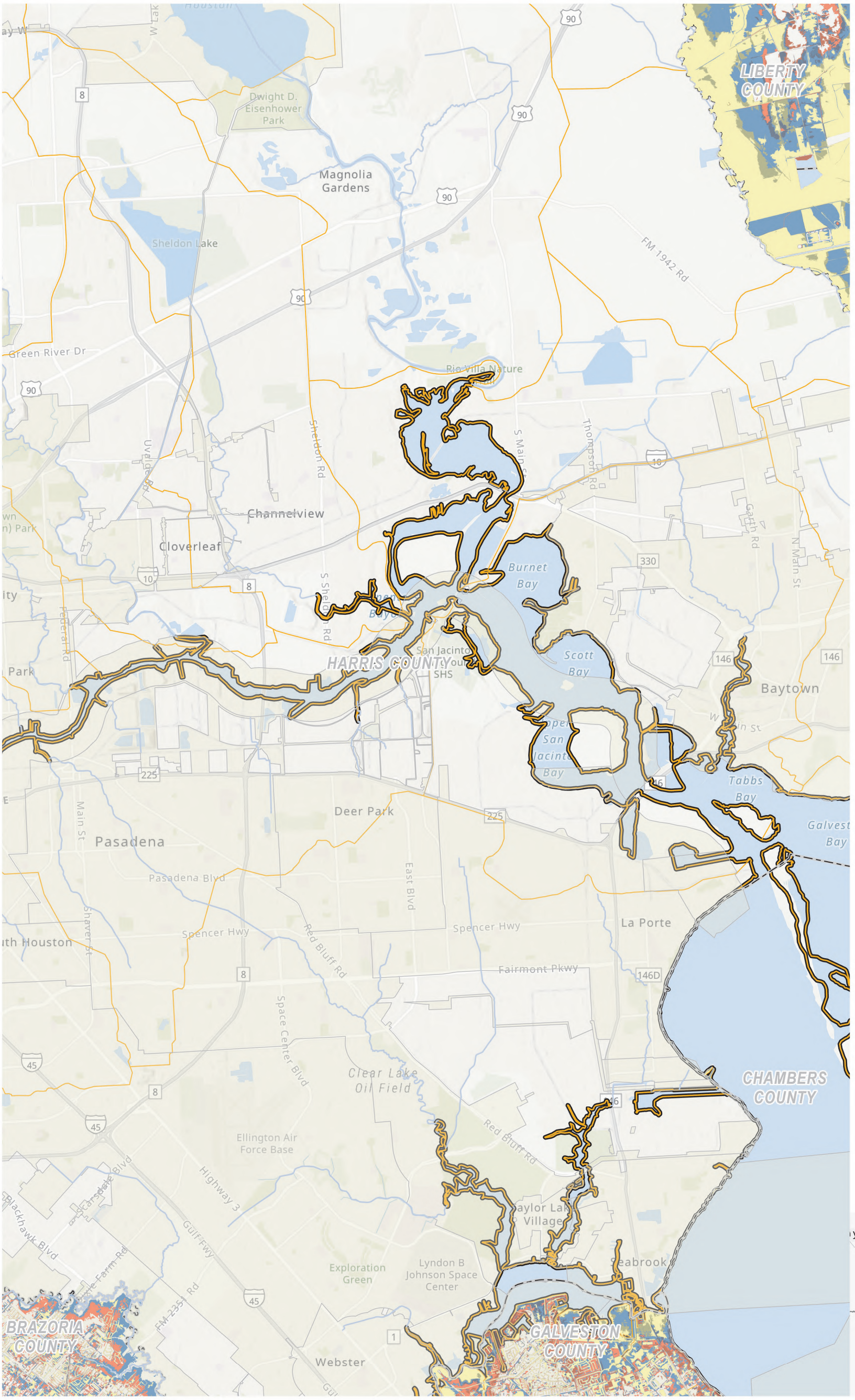

Region 6 San Jacinto
2028 Regional Flood Plan

Extent Increase of Flood Hazard

MAP 9
13 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

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NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Region 6 San Jacinto
2028 Regional Flood Plan

Extent Increase of Flood Hazard

MAP 9
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SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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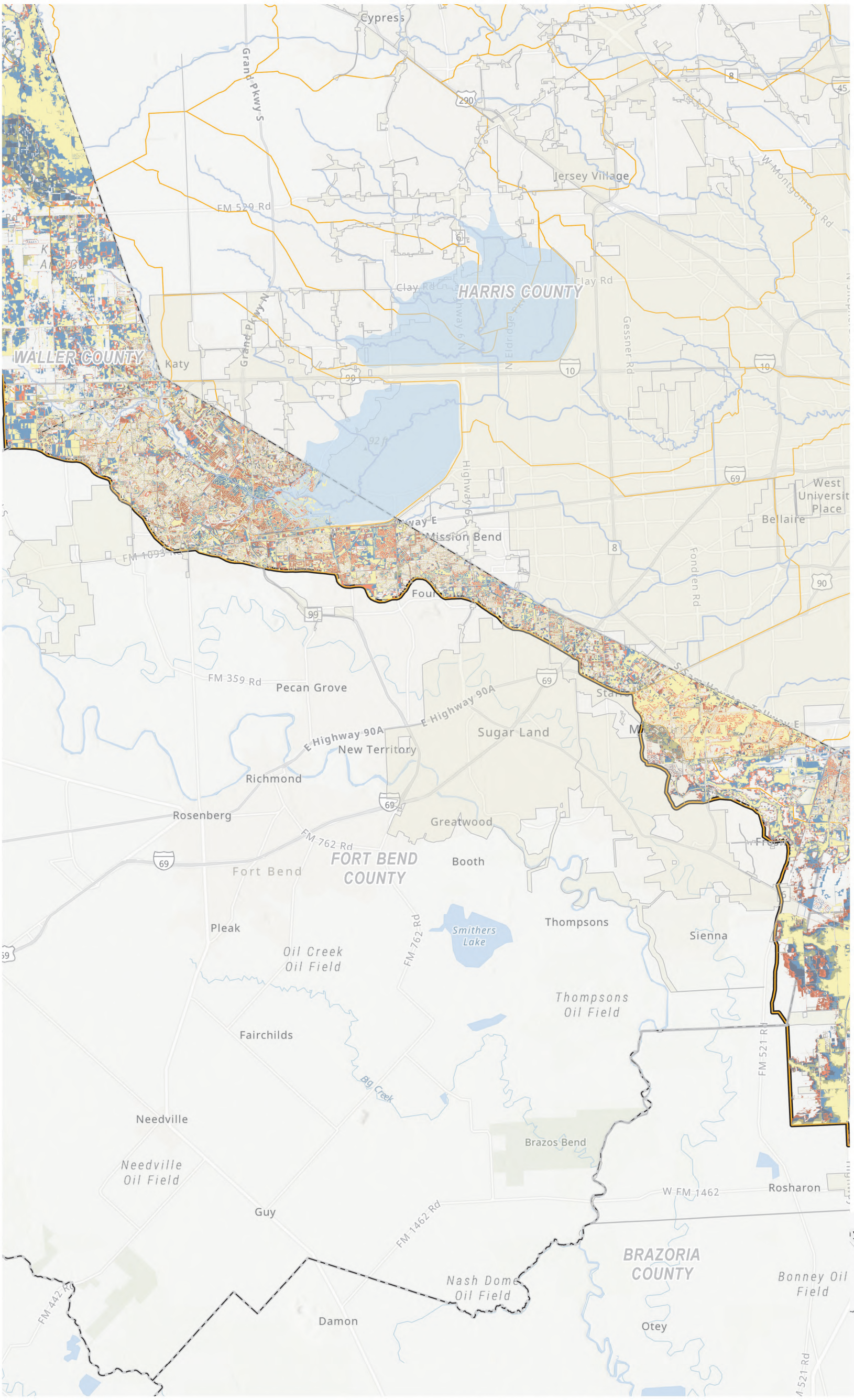

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Extent Increase of Flood Hazard

MAP 9
15 of 17 in series

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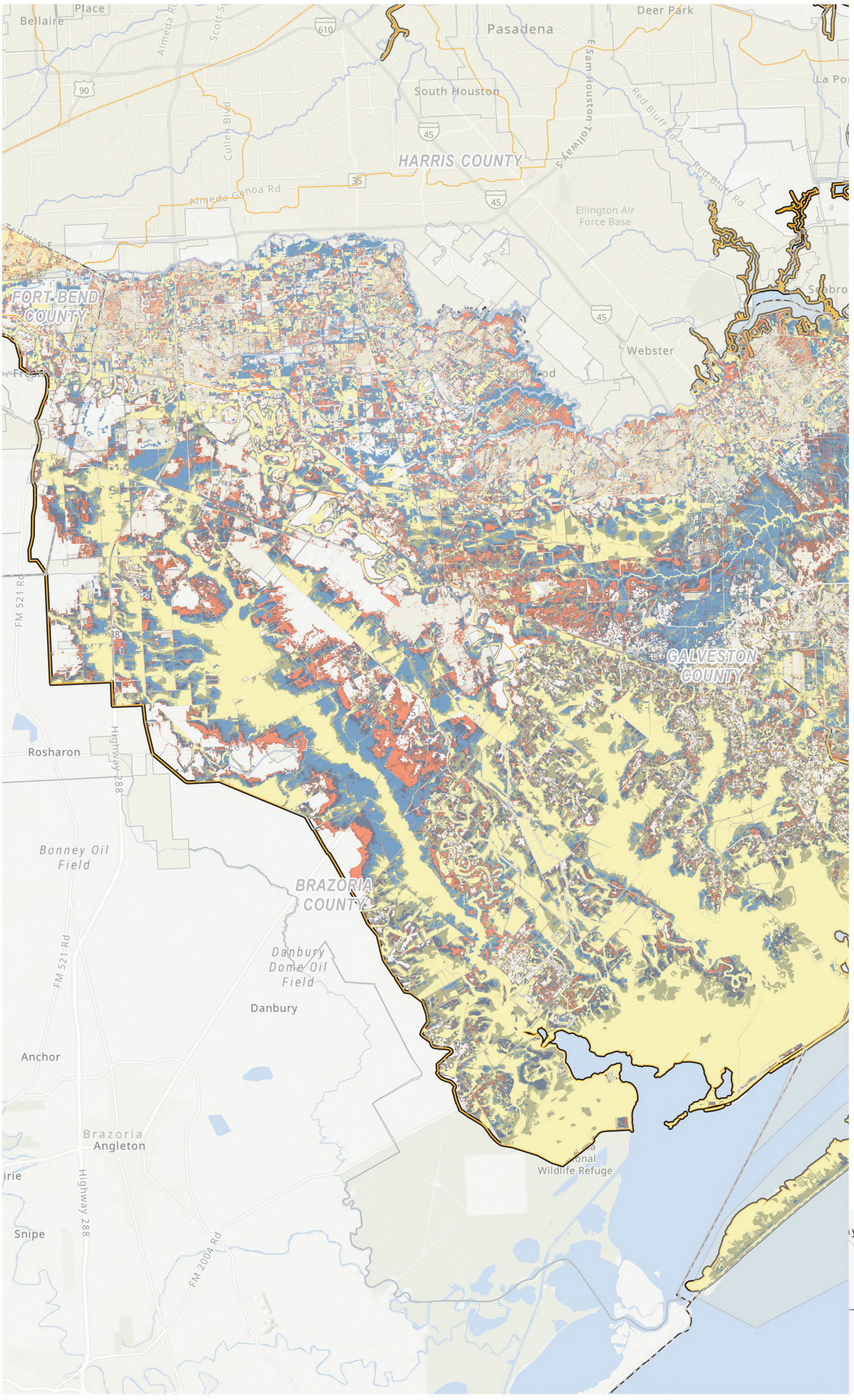

Region 6 San Jacinto
2028 Regional Flood Plan

Extent Increase of Flood Hazard

MAP 9
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SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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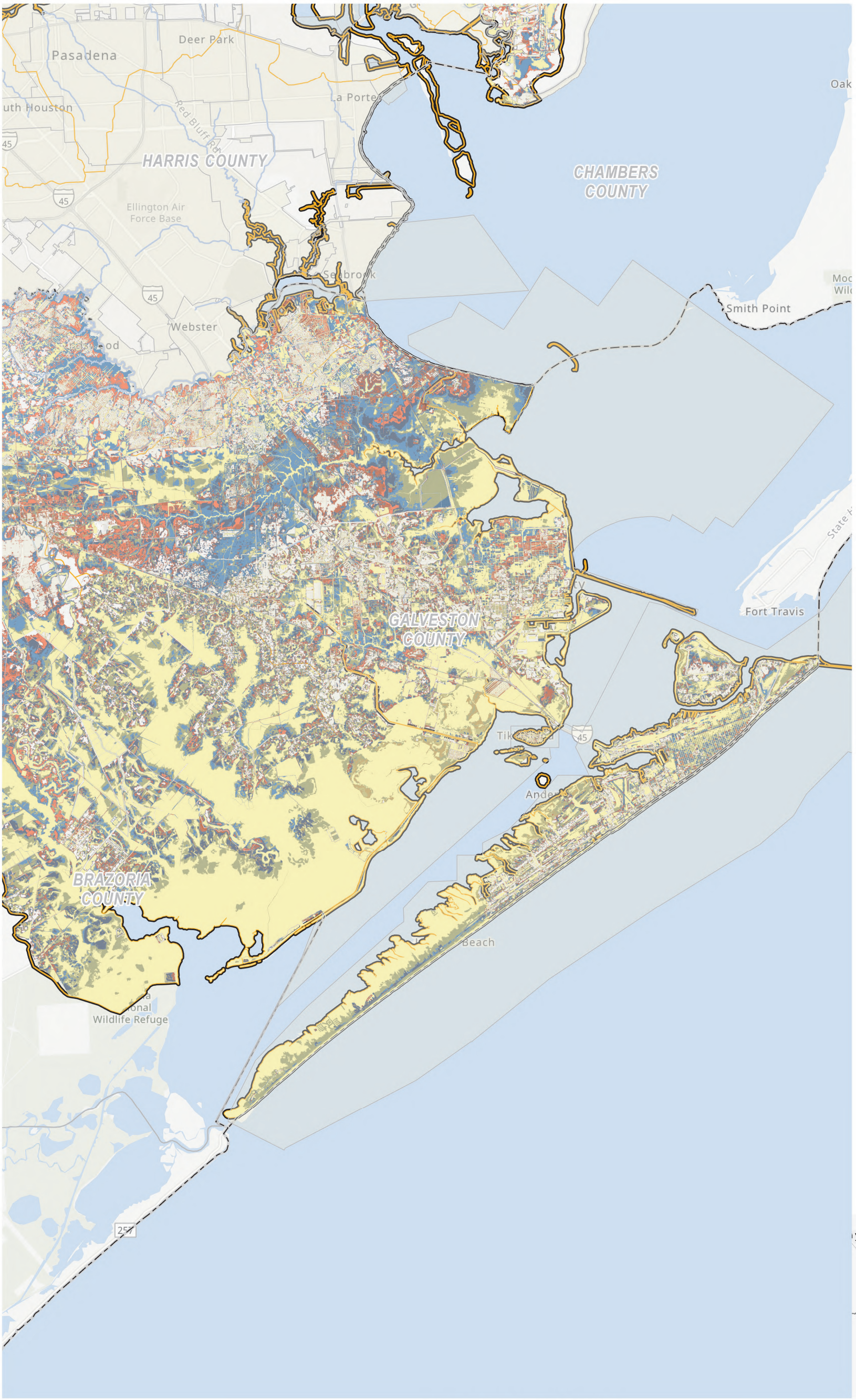


Legend

Flood Hazard

- Existing 10yr
- Future10yr
- Existing 100yr
- Future 100yr
- Existing 500yr
- Future 500yr
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 2.25 4.5

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Extent Increase of Flood Hazard

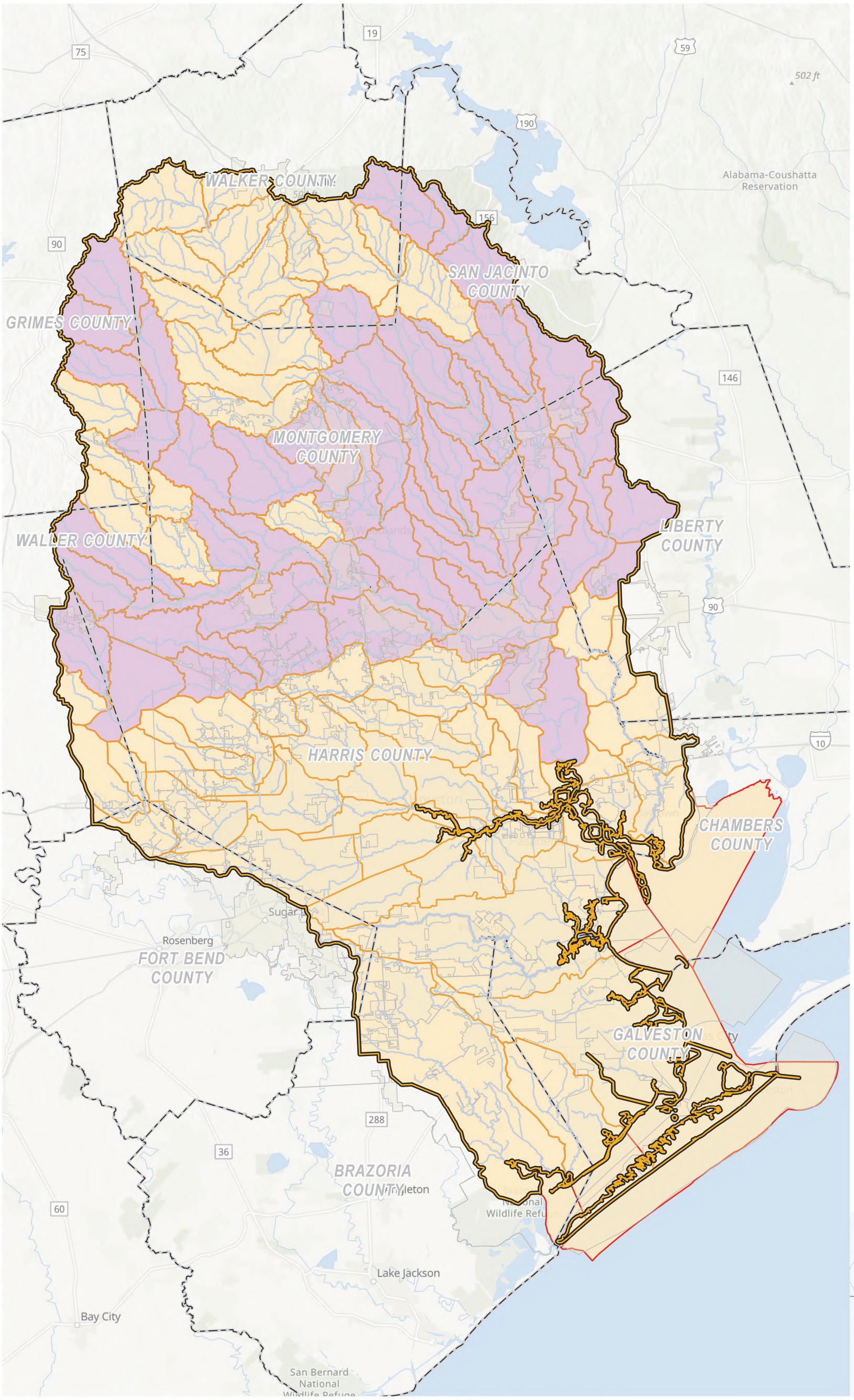
MAP 9
17 of 17 in series

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

Prepared by Freese and Nichols, Inc.

NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Map 10: Future Condition Flood Hazard - Gaps in Inundation Boundary Mapping and Identify known Flood Prone Areas



Legend

Future Map Gaps

- Incomplete Coverage
- Approximate Data
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 5 10

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Hazard Map Gaps

MAP 10

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

Prepared by Freese and Nichols, Inc.

NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Map 11: Future Condition Flood Exposure

Legend

Flood Exposure Feature Density

- Low
- High
- Streams
- Watersheds
- Municipality
- County
- Region Boundary

N

0 5 10

Miles

Region 6 San Jacinto
2028 Regional Flood Plan
Future Condition Flood Exposure

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

MAP 11
1 of 17 in series

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

Prepared by Freese and Nichols, Inc.

NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Legend

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Huntsville

The Woodlands

Houston

Atascocita

Alabama-Coushatta Reservation

Sugar Land

Rosenberg

Angleton

Lake Jackson

Bay City

Texas City

Galveston

Brazoria National Wildlife Refuge

San Bernard National Wildlife Refuge

N

0 5 10

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Exposure

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2 of 17 in series

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

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NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Legend

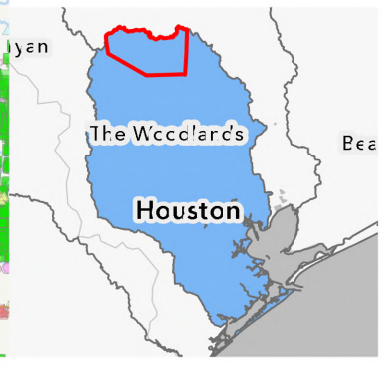
Future Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 2.75 5.5

Miles



Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Exposure

MAP 11
3 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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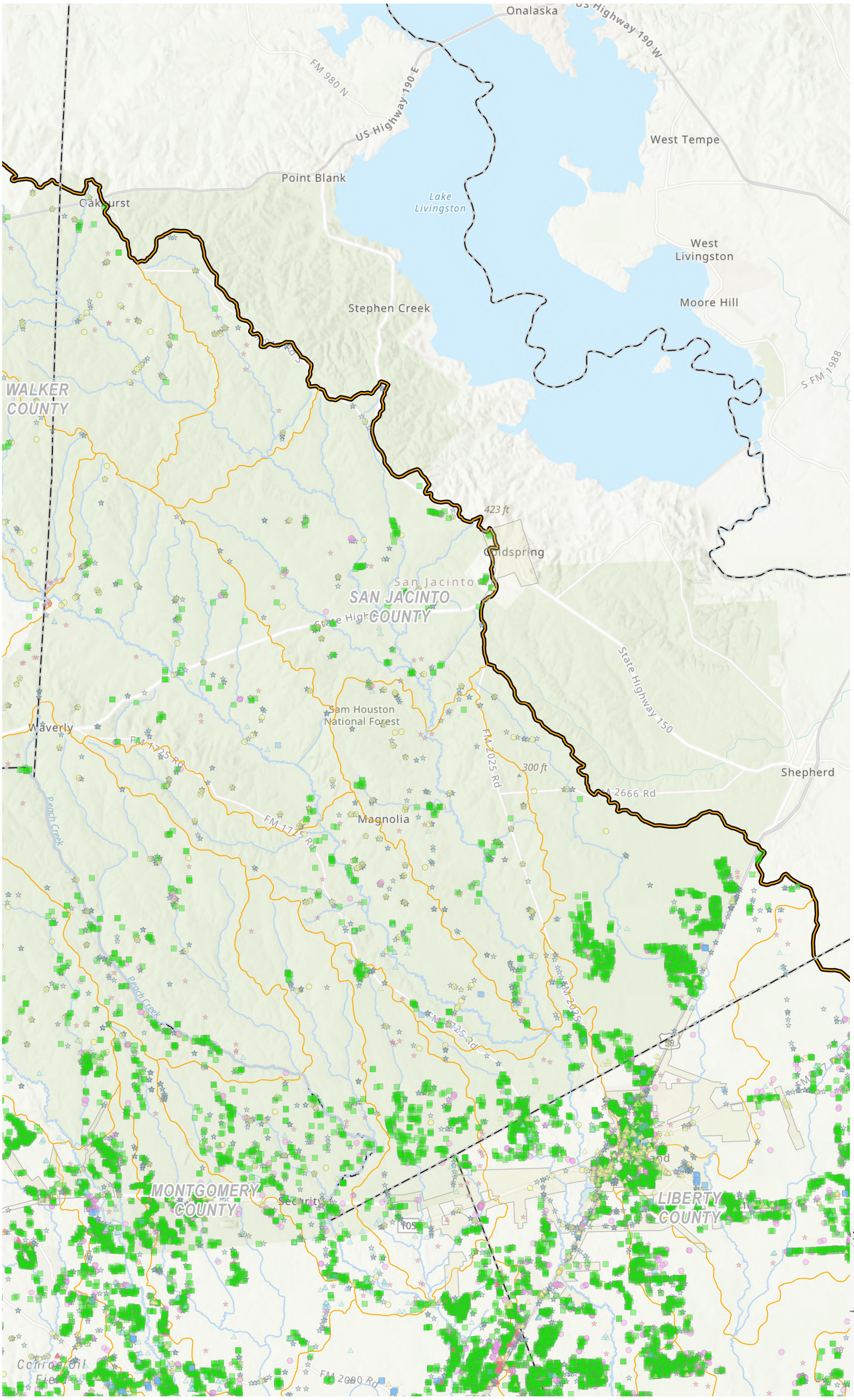
NAD 1983 StatePlane Texas South Central FIPS 4204 Feet



Legend

Future Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 1.5 3

Miles

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Exposure

MAP 11
4 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

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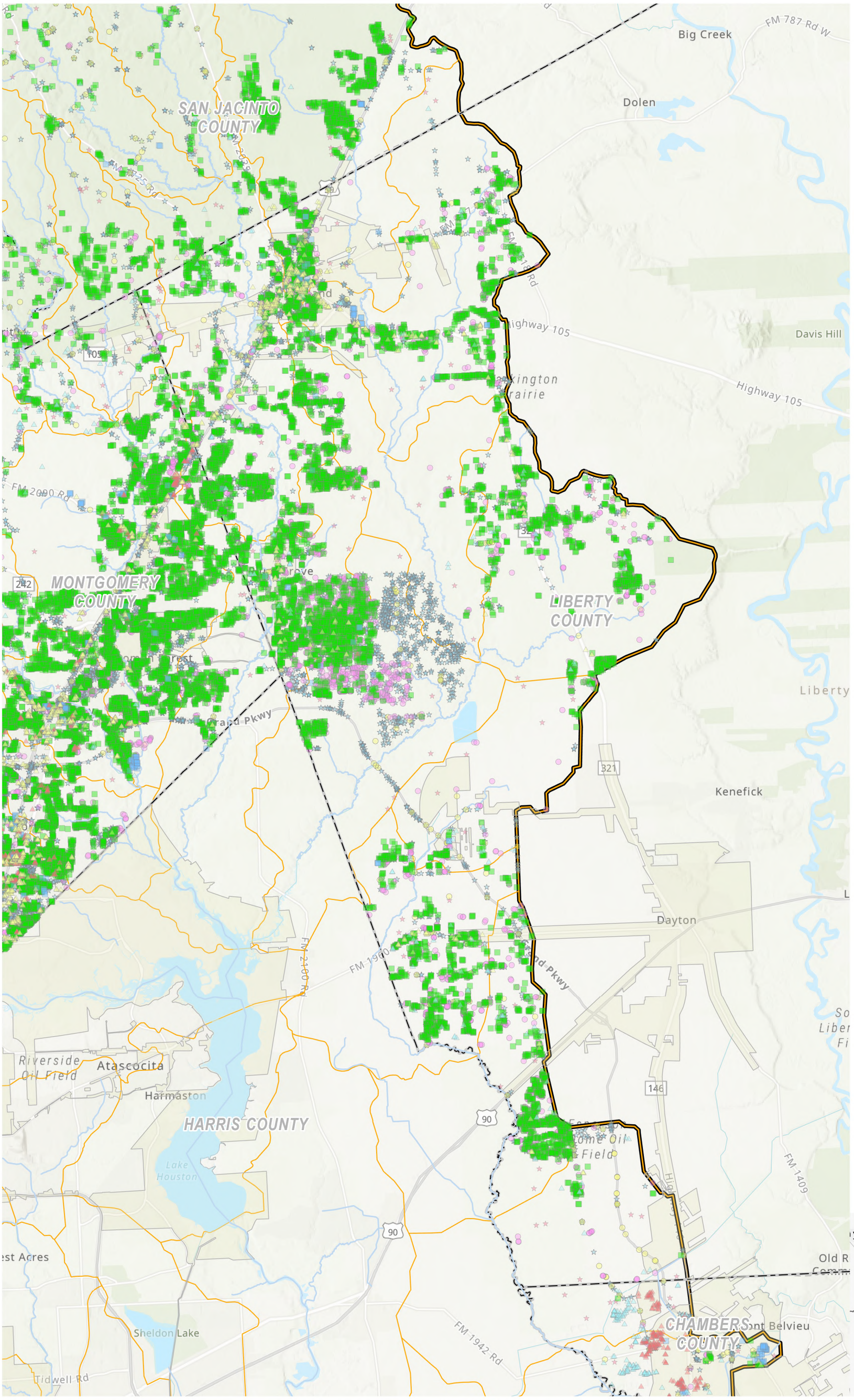

Legend

Future Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 1.75 3.5

Miles

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Exposure

MAP 11
5 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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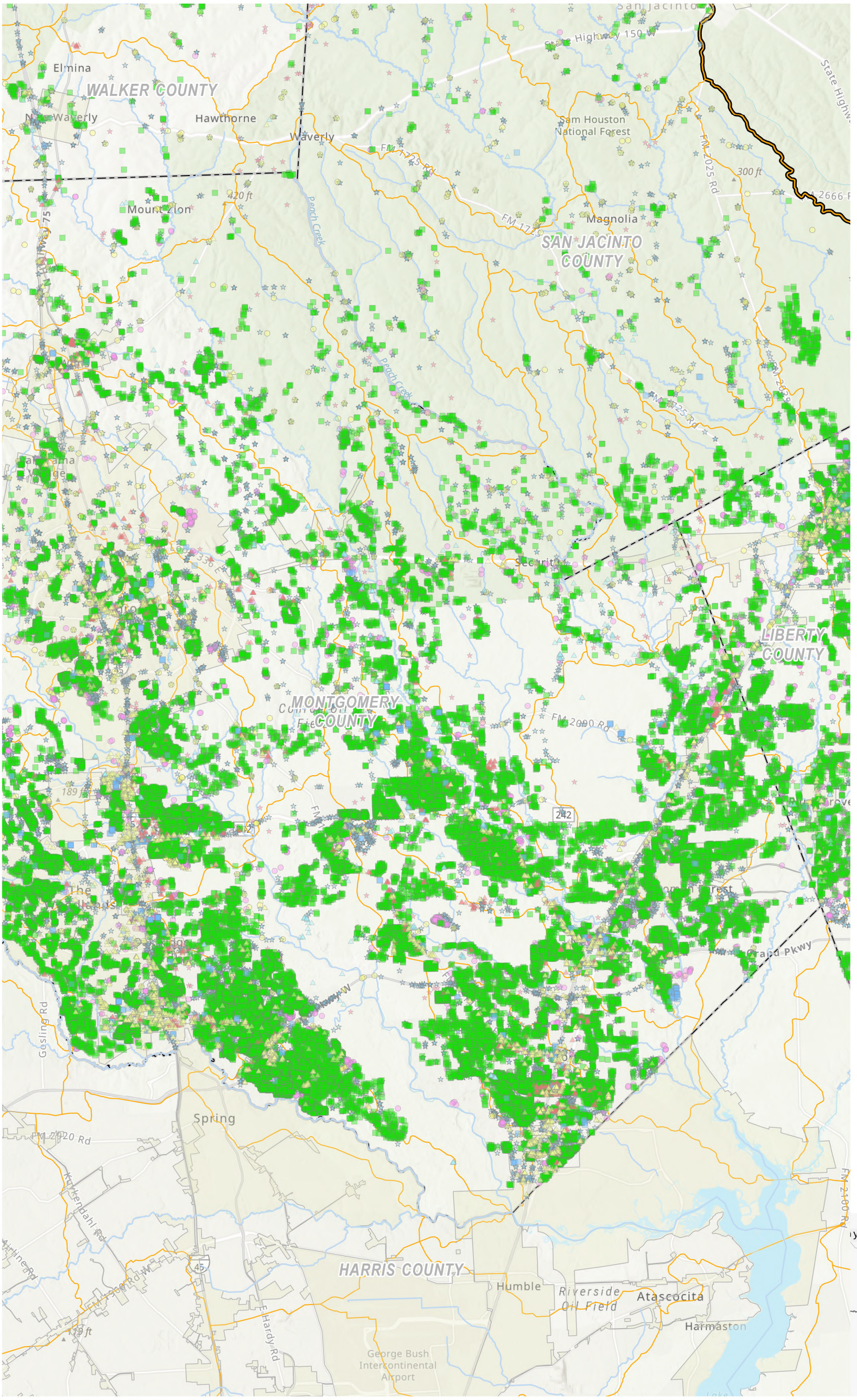

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Exposure

MAP 11
6 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

Prepared by Freese and Nichols, Inc.

NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Legend

Future Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 1.75 3.5

Miles

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Exposure

MAP 11
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SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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Prepared by Freese and Nichols, Inc.

NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Legend

Future Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 1.5 3

Miles

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Exposure

MAP 11
8 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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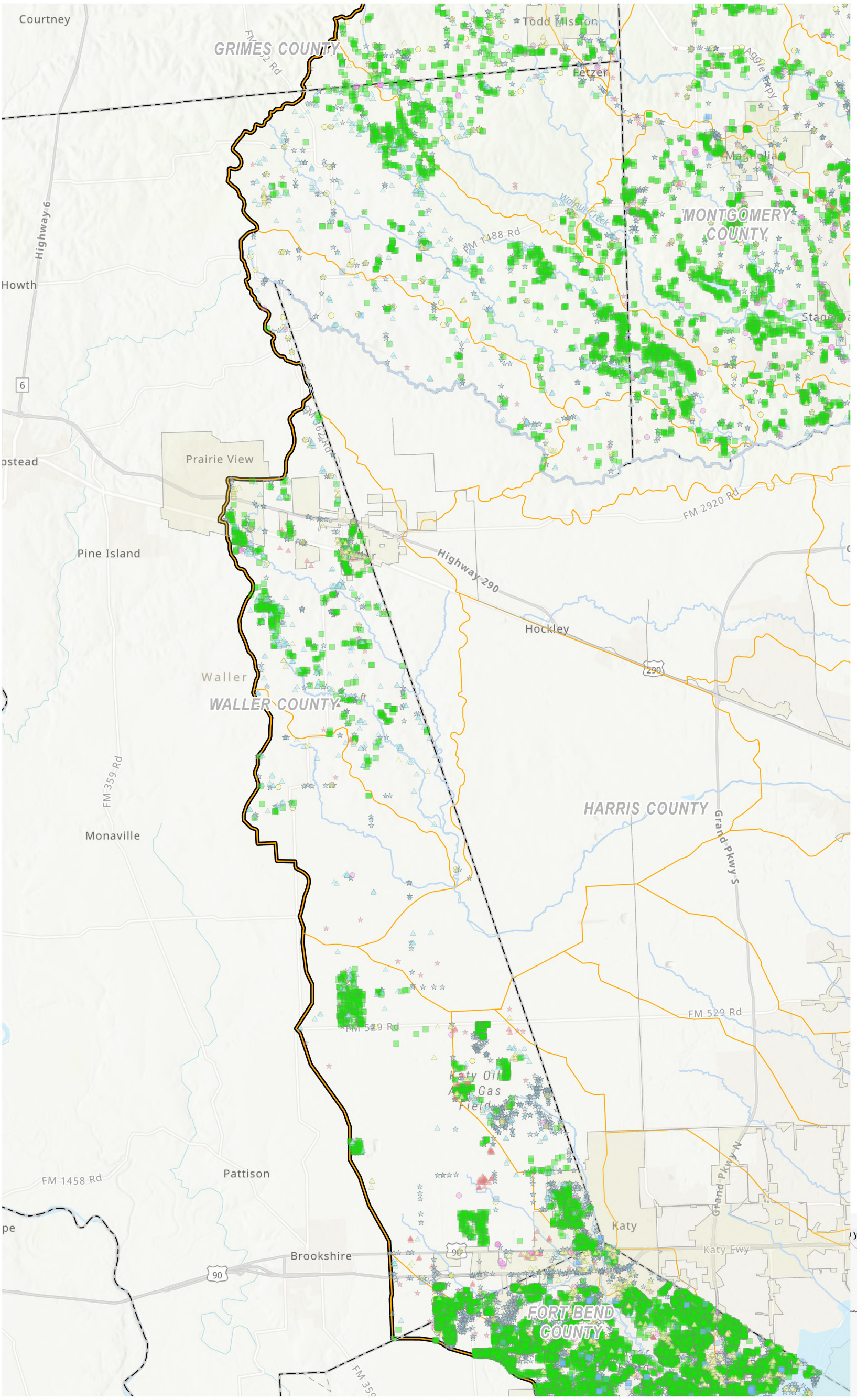

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Exposure

MAP 11
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SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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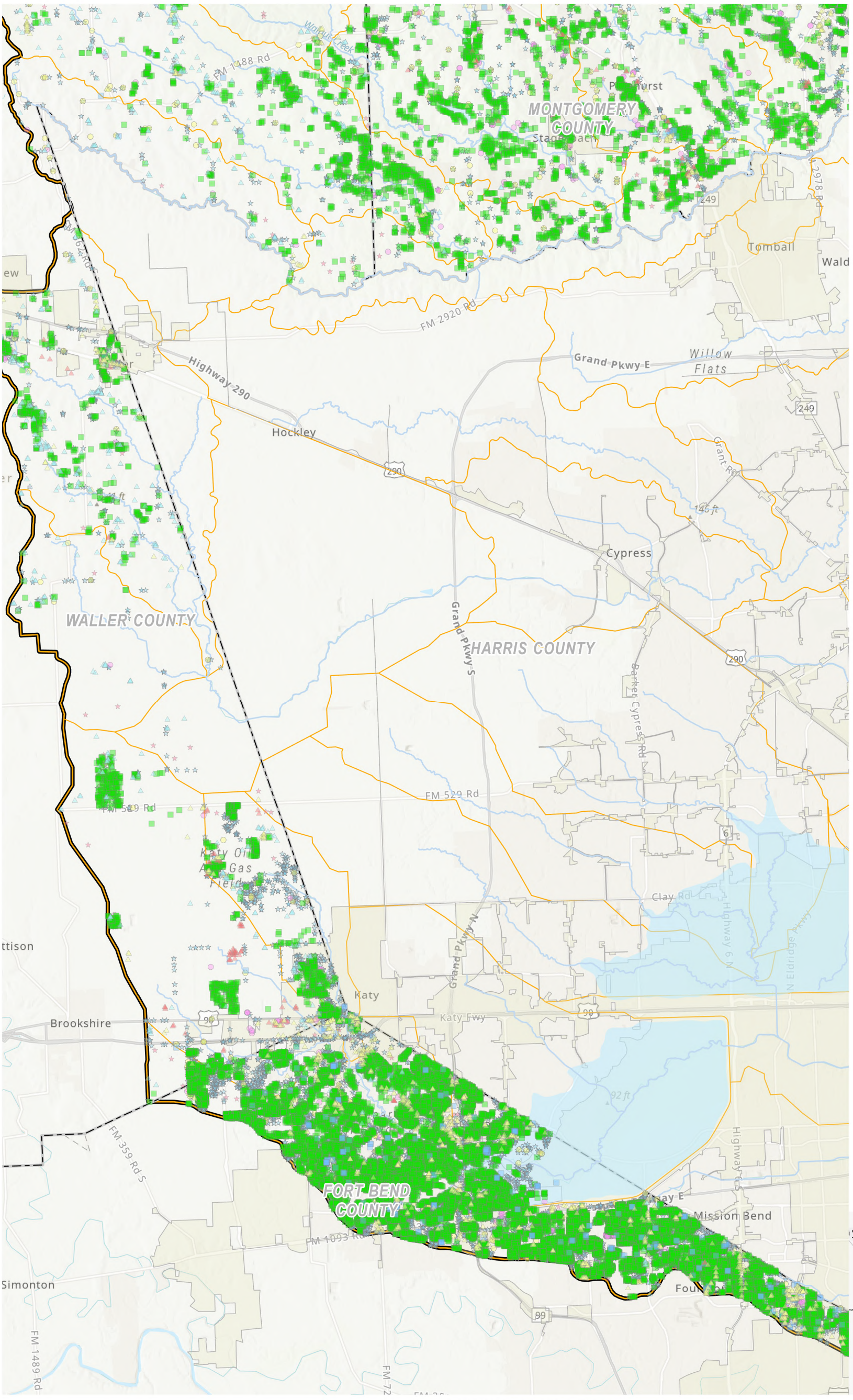

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Exposure

MAP 11
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SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

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NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Legend

Future Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 2 4

Miles

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Exposure

MAP 11
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SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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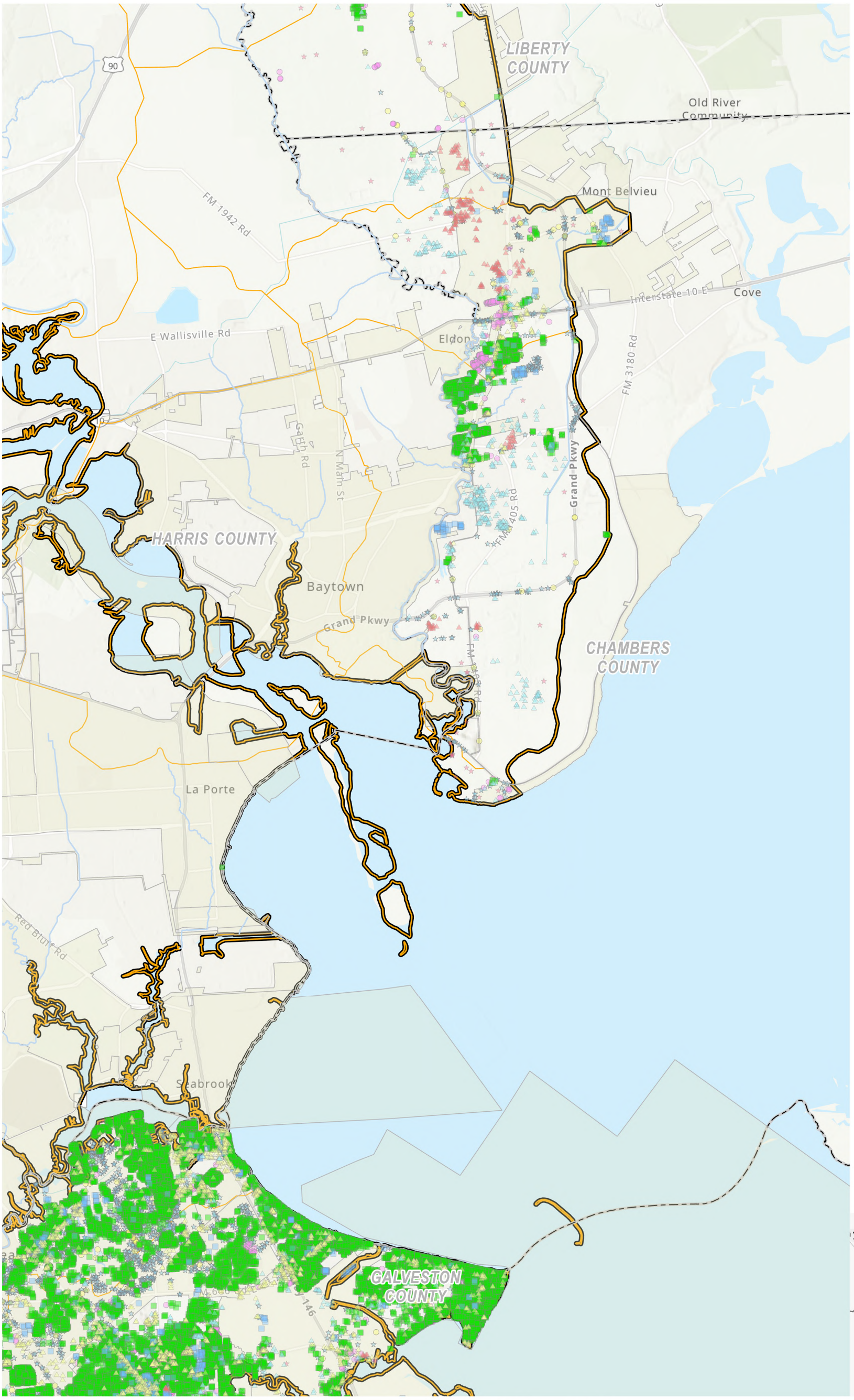

Legend

Future Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 1.25 2.5

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Exposure

MAP 11
12 of 17 in series

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NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Legend

Future Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 1 2

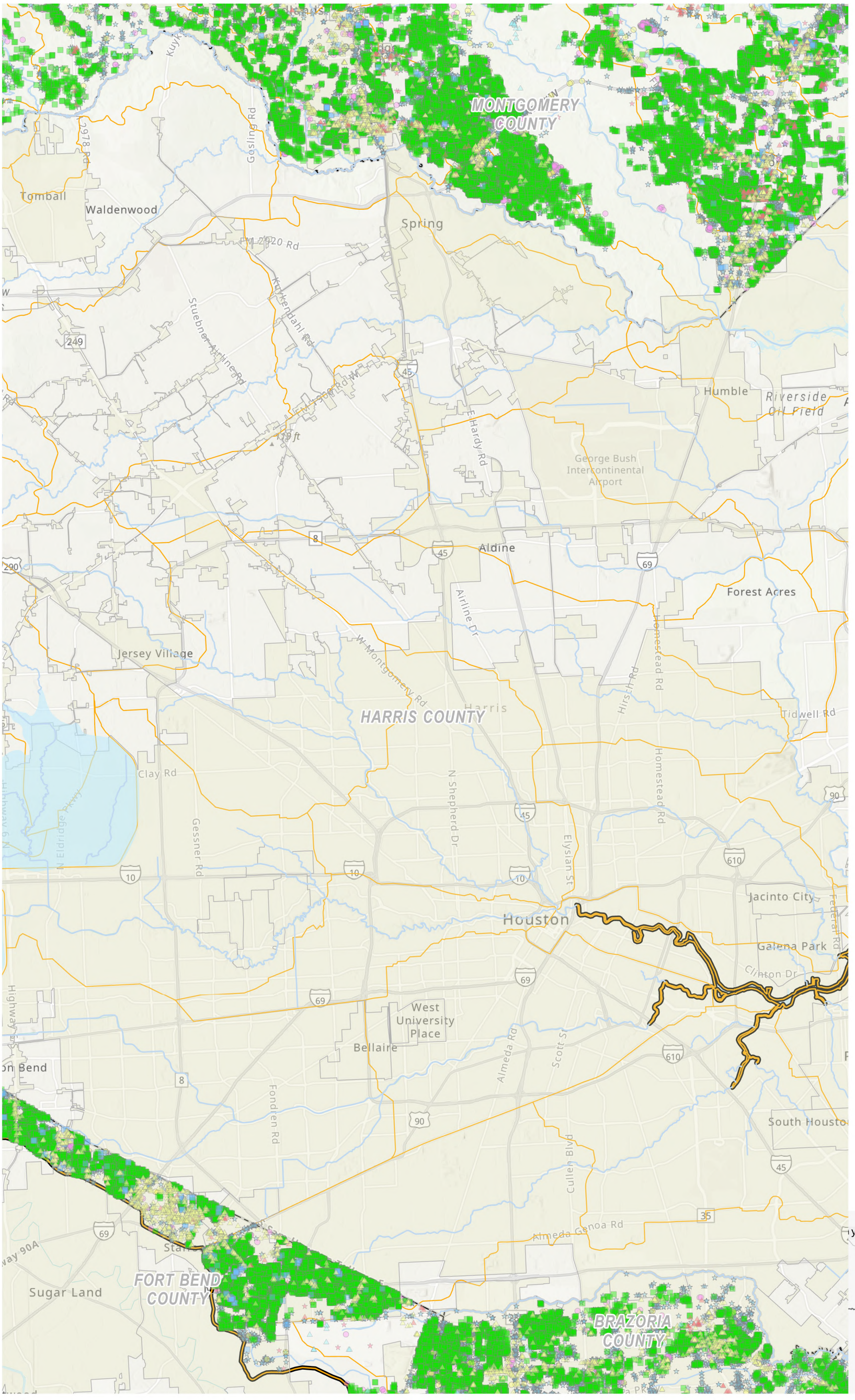
Miles

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Exposure

MAP 11
13 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6



Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Exposure

MAP 11
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SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Legend

Future Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 1.75 3.5

Miles

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Exposure

MAP 11
15 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Legend

Future Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 1.75 3.5

Miles

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Exposure

MAP 11
16 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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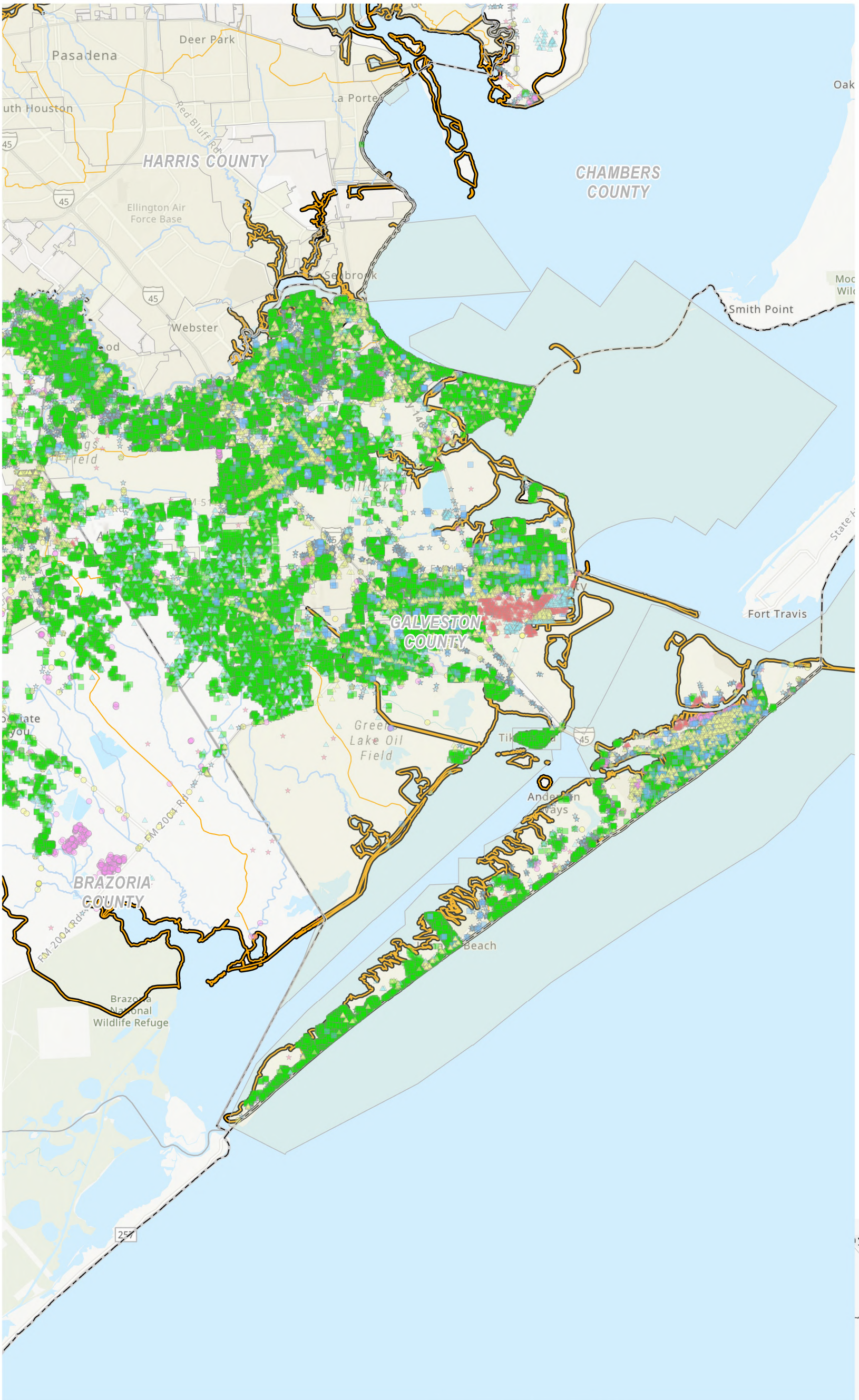

Legend

Future Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 2.25 4.5

Miles

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Flood Exposure

MAP 11
17 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Map 12: Future Condition Vulnerability and Critical Infrastructure

Legend

Future Critical Facilities TXF-SVI

- <0.75
- 0.75 - 1
- Census Tract TXF-SVI >0.75

Average County TXF-SVI

- < 0.35
- 0.35 - 0.50
- 0.50 - 0.75
- > 0.75
- Streams
- Watersheds
- Municipality
- County
- Region Boundary

N

0 5 10

Miles

Region 6 San Jacinto
2028 Regional Flood Plan
Future Condition Vulnerability

MAP 12

1 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Legend

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Huntsville

The Woodlands

Houston

Atascocita

Alabama-Coushatta Reservation

Sugar Land

Rosenberg

Angleton

Lake Jackson

Bay City

Texas City

Galveston

Brazoria National Wildlife Refuge

San Bernard National Wildlife Refuge

N

0 5 10

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Vulnerability

MAP 12
2 of 17 in series

Legend

Future Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land

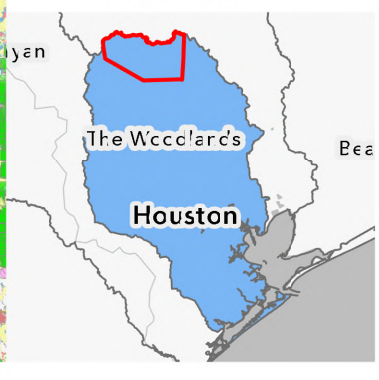
Future Flood Hazard

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 2.75 5.5

Miles

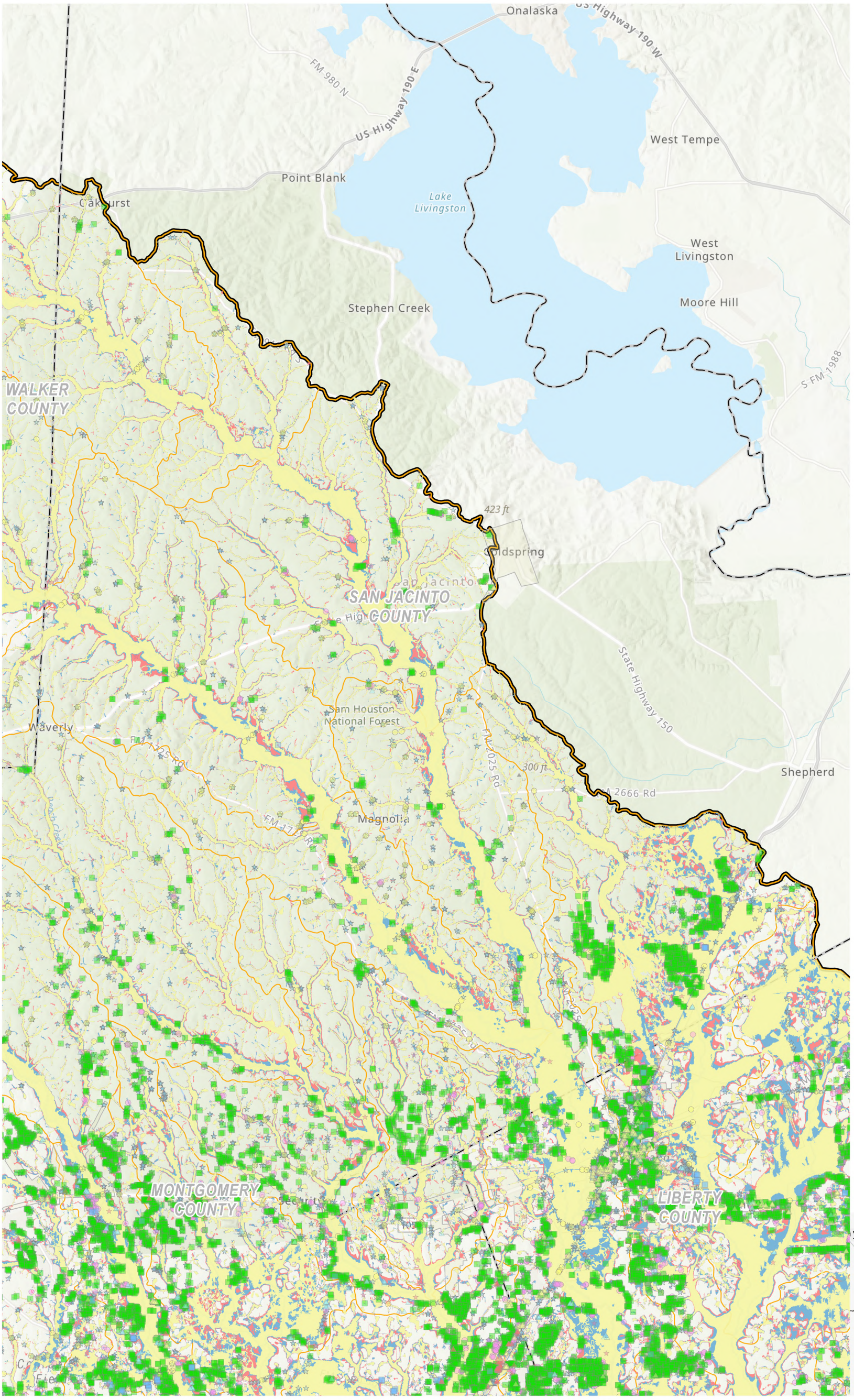


SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Vulnerability

MAP 12
3 of 17 in series



Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Vulnerability

MAP 12
4 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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Prepared by Freese and Nichols, Inc.

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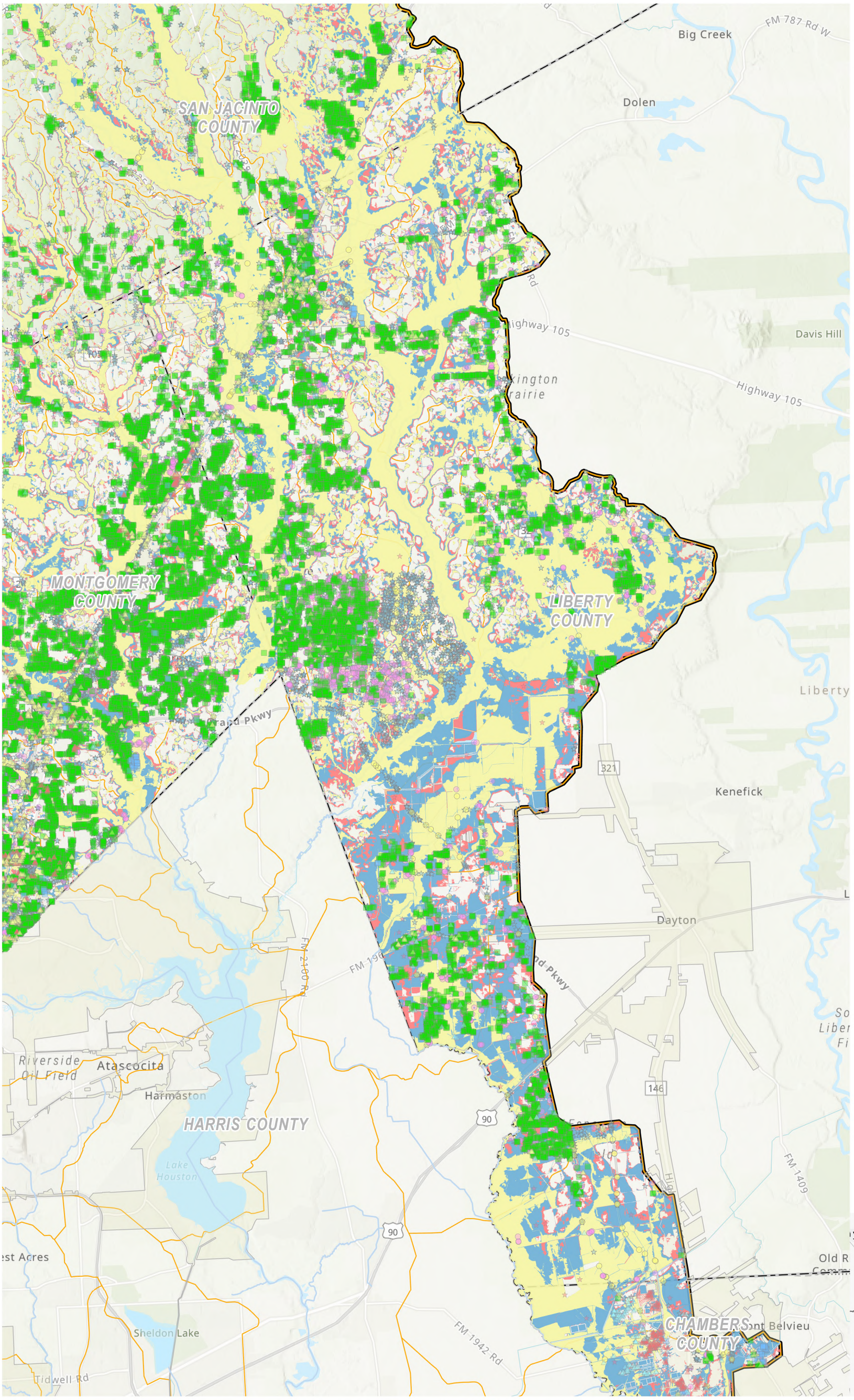


Legend

Future Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land

Future Flood Hazard

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 1.75 3.5

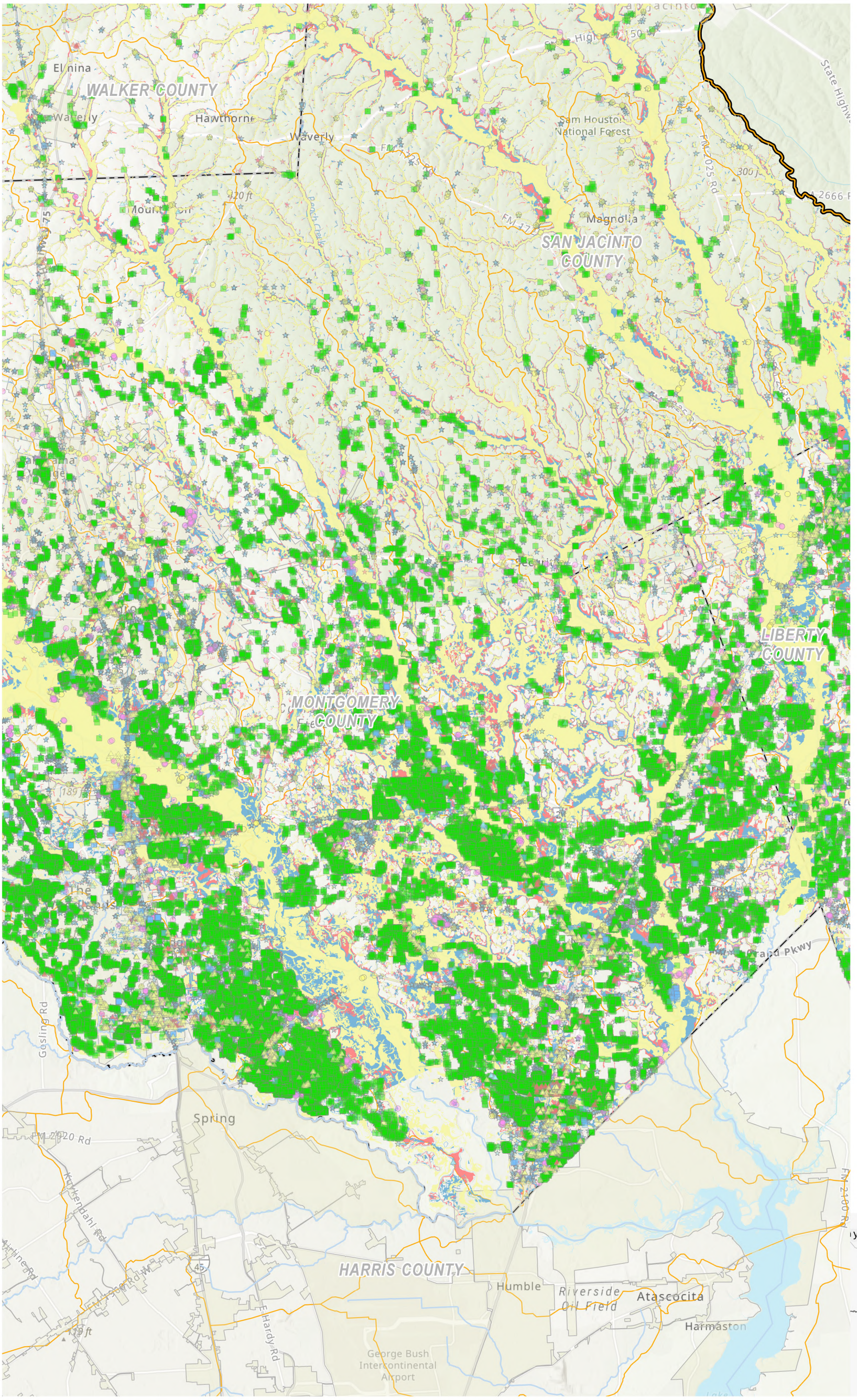
Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Vulnerability

MAP 12
5 of 17 in series



Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Vulnerability

MAP 12
6 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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Prepared by Freese and Nichols, Inc.

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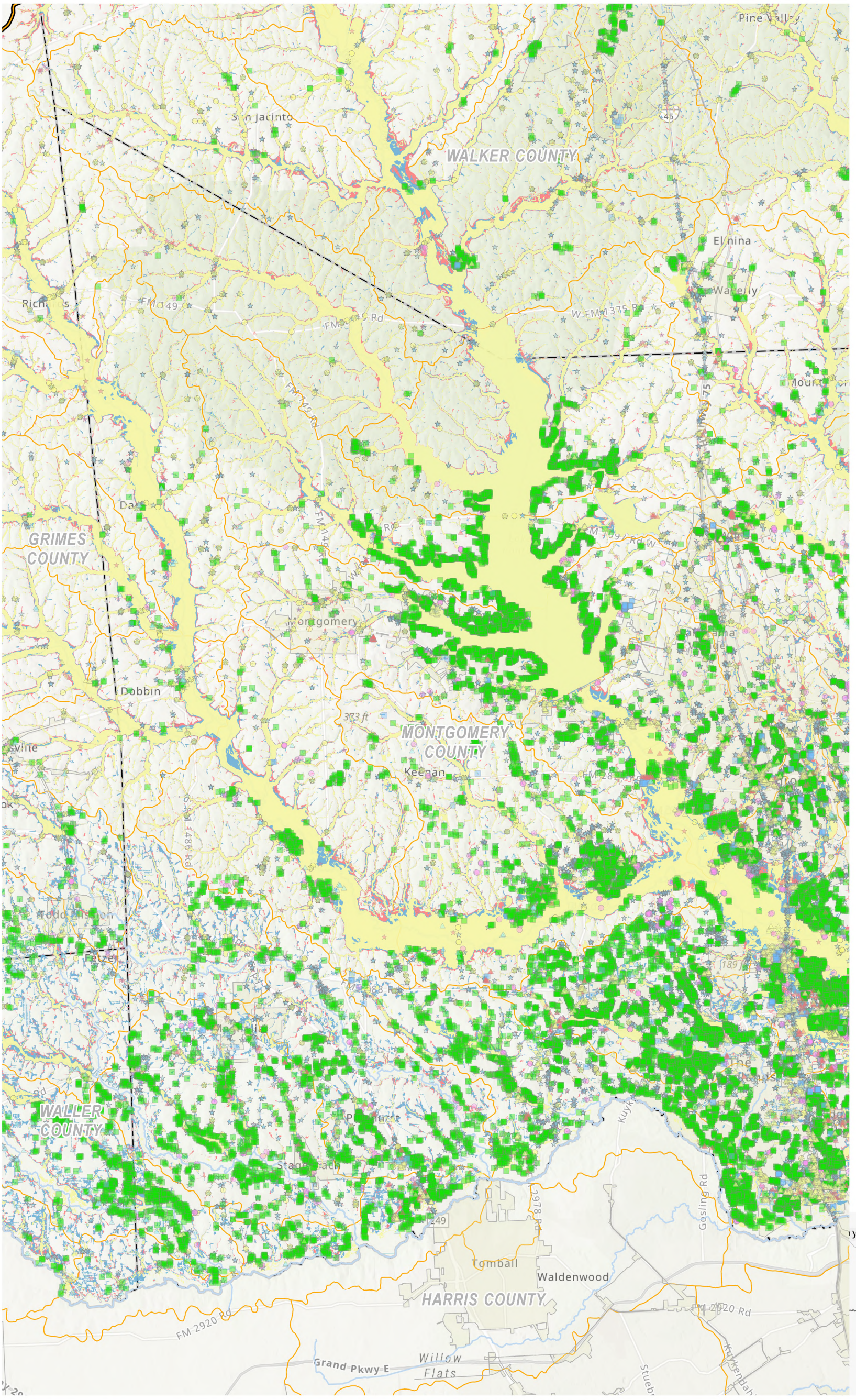

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Vulnerability

MAP 12
7 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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Prepared by Freese and Nichols, Inc.

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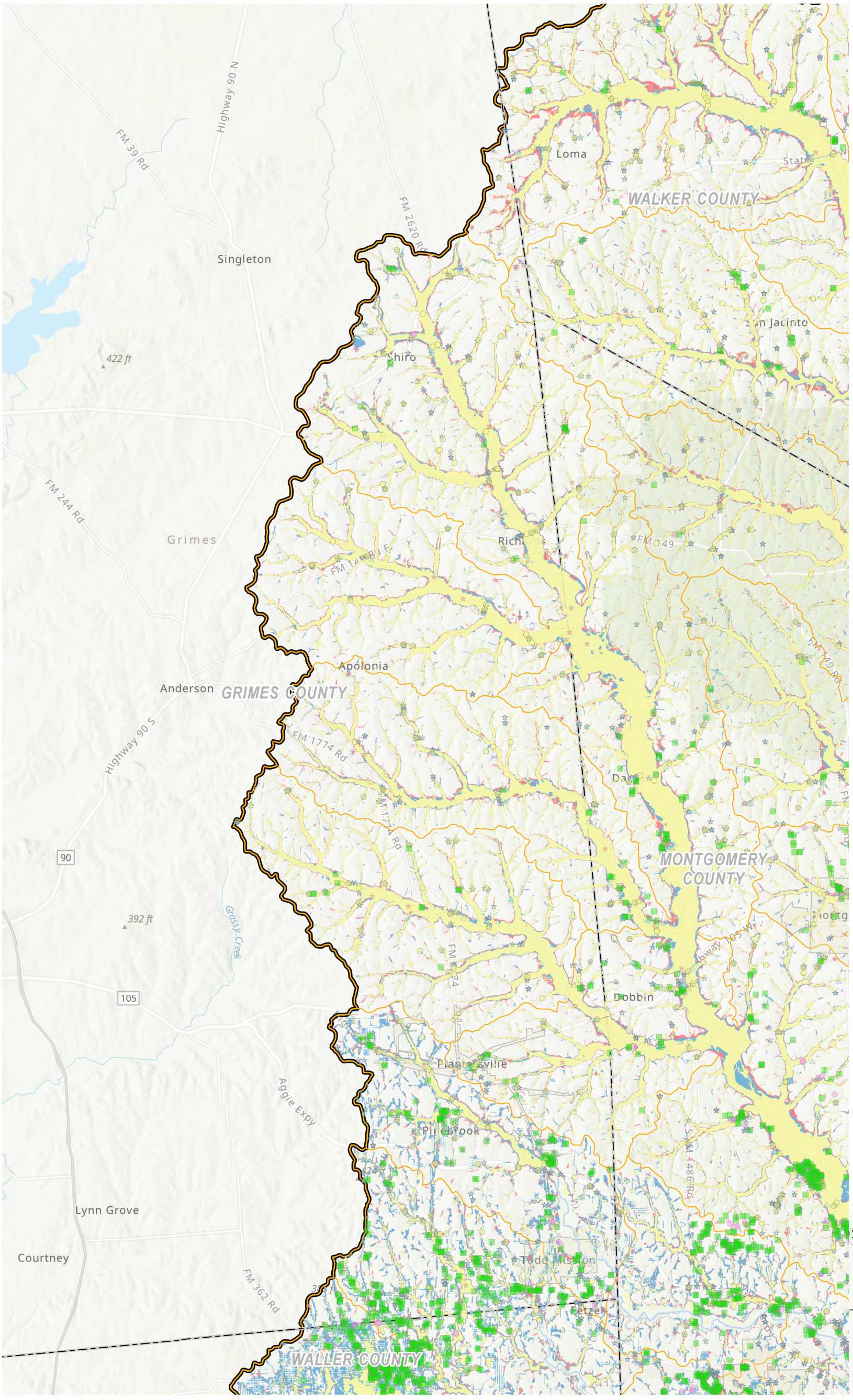

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Vulnerability

MAP 12
8 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

Prepared by Freese and Nichols, Inc.

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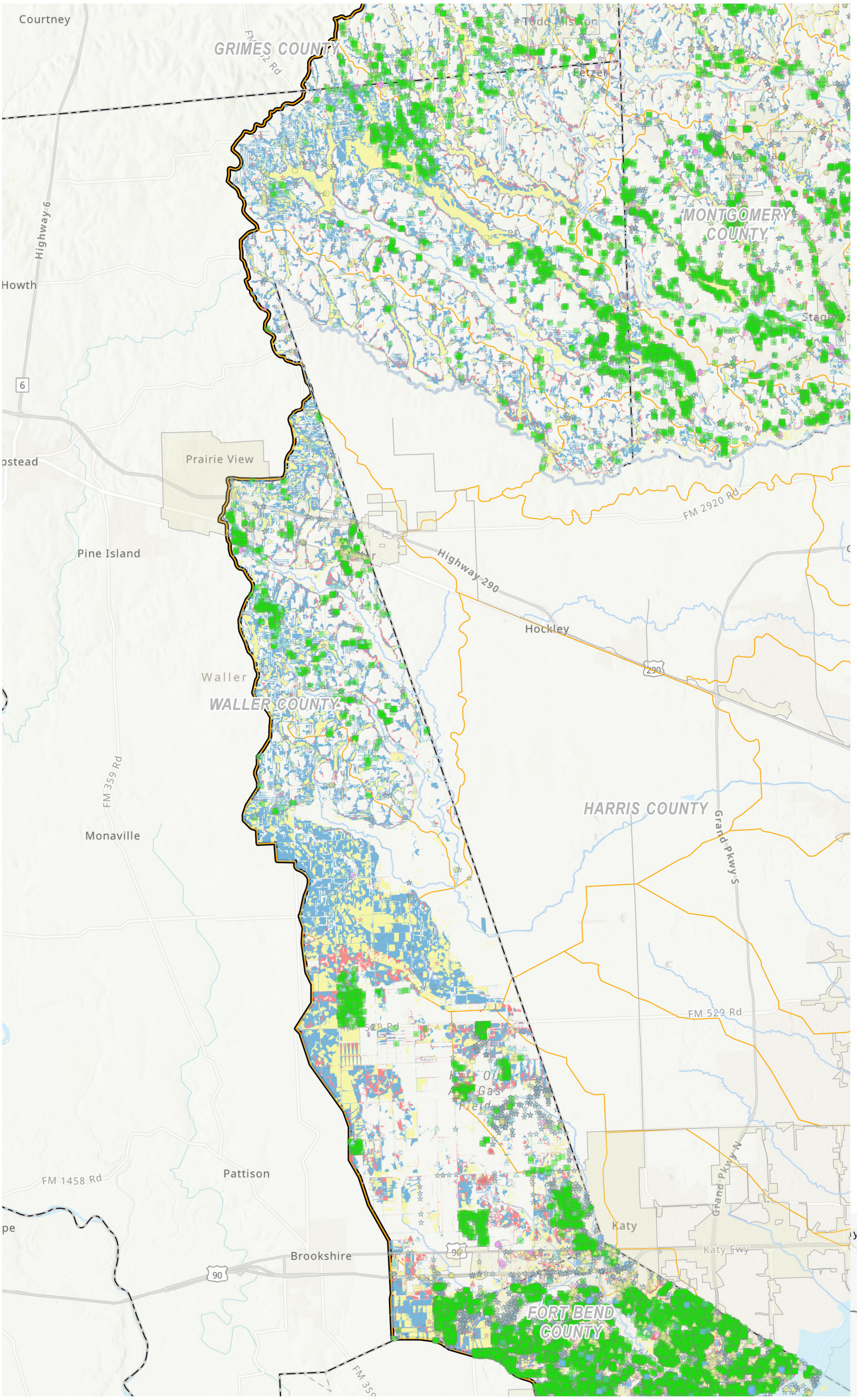

Legend

Future Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land

Future Flood Hazard

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Vulnerability

MAP 12
9 of 17 in series

Legend

Future Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land

Future Flood Hazard

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 1.5 3

Miles

Region 6 San Jacinto
2028 Regional Flood Plan
Future Condition Vulnerability

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

MAP 12
10 of 17 in series

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

Prepared by Freese and Nichols, Inc.

NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Legend

Future Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land

Future Flood Hazard

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 2 4

Miles

Region 6 San Jacinto
2028 Regional Flood Plan
Future Condition Vulnerability

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

MAP 12
11 of 17 in series

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

Prepared by Freese and Nichols, Inc.

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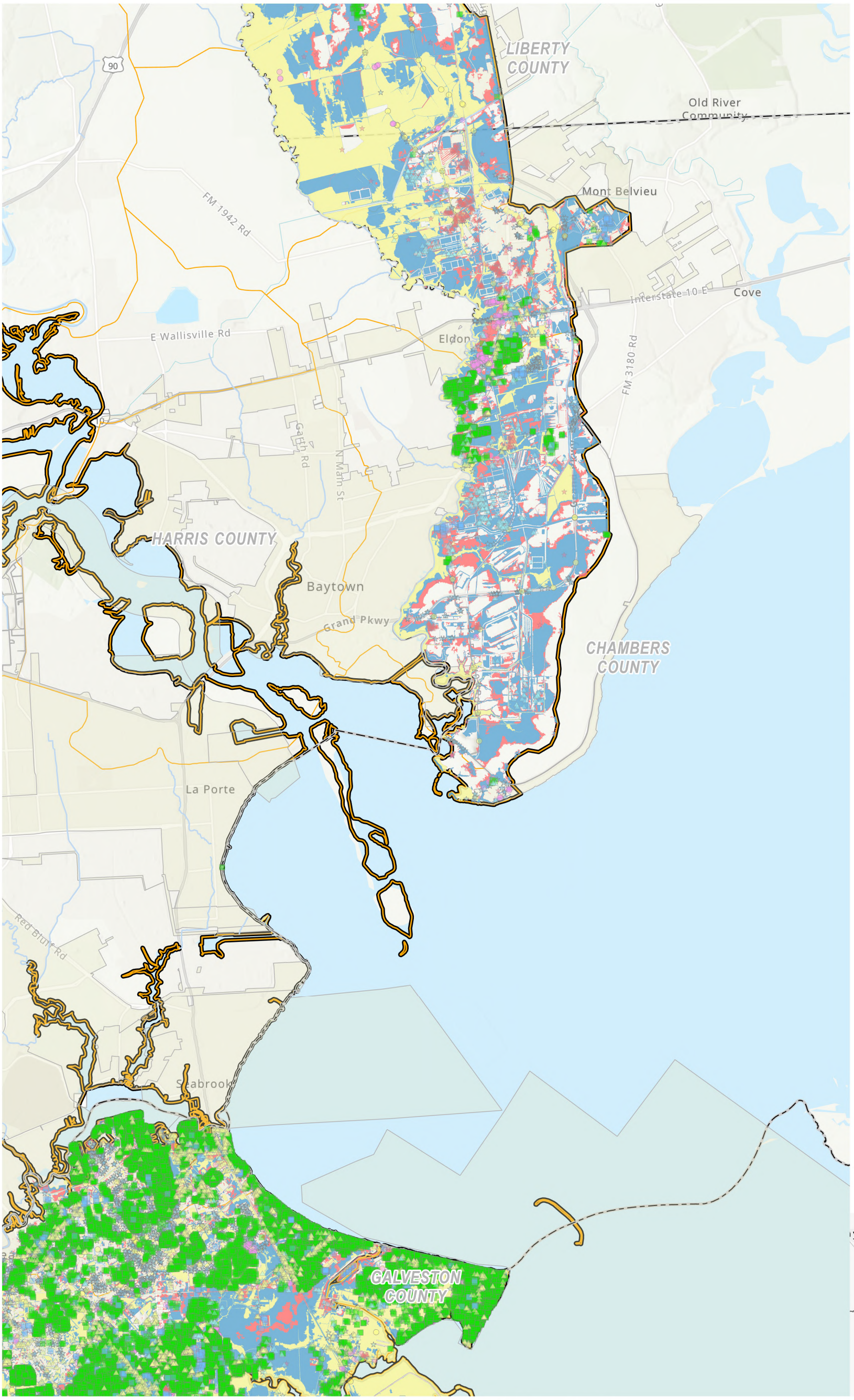

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Vulnerability

MAP 12
12 of 17 in series

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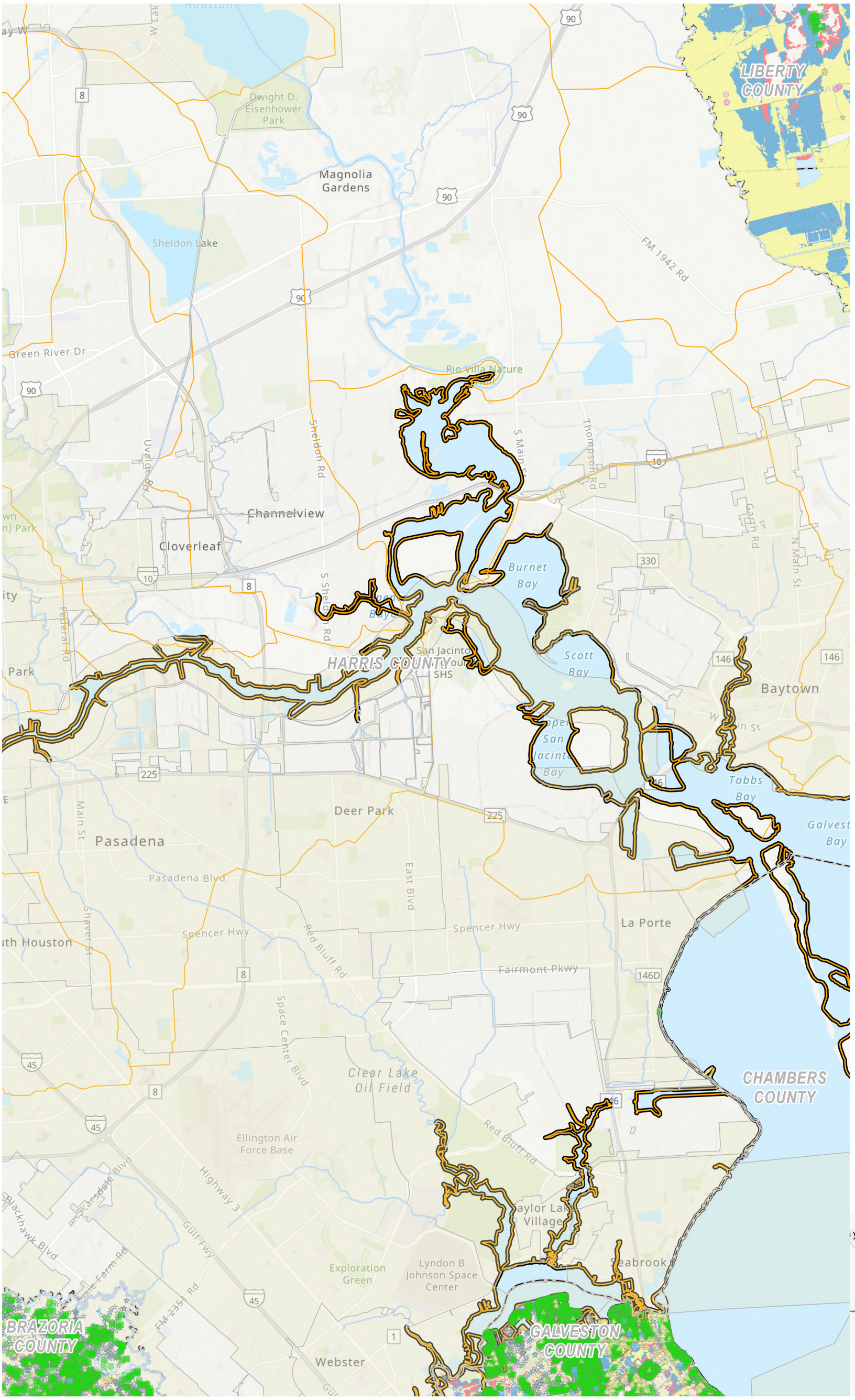

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Vulnerability

MAP 12
13 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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Prepared by Freese and Nichols, Inc.

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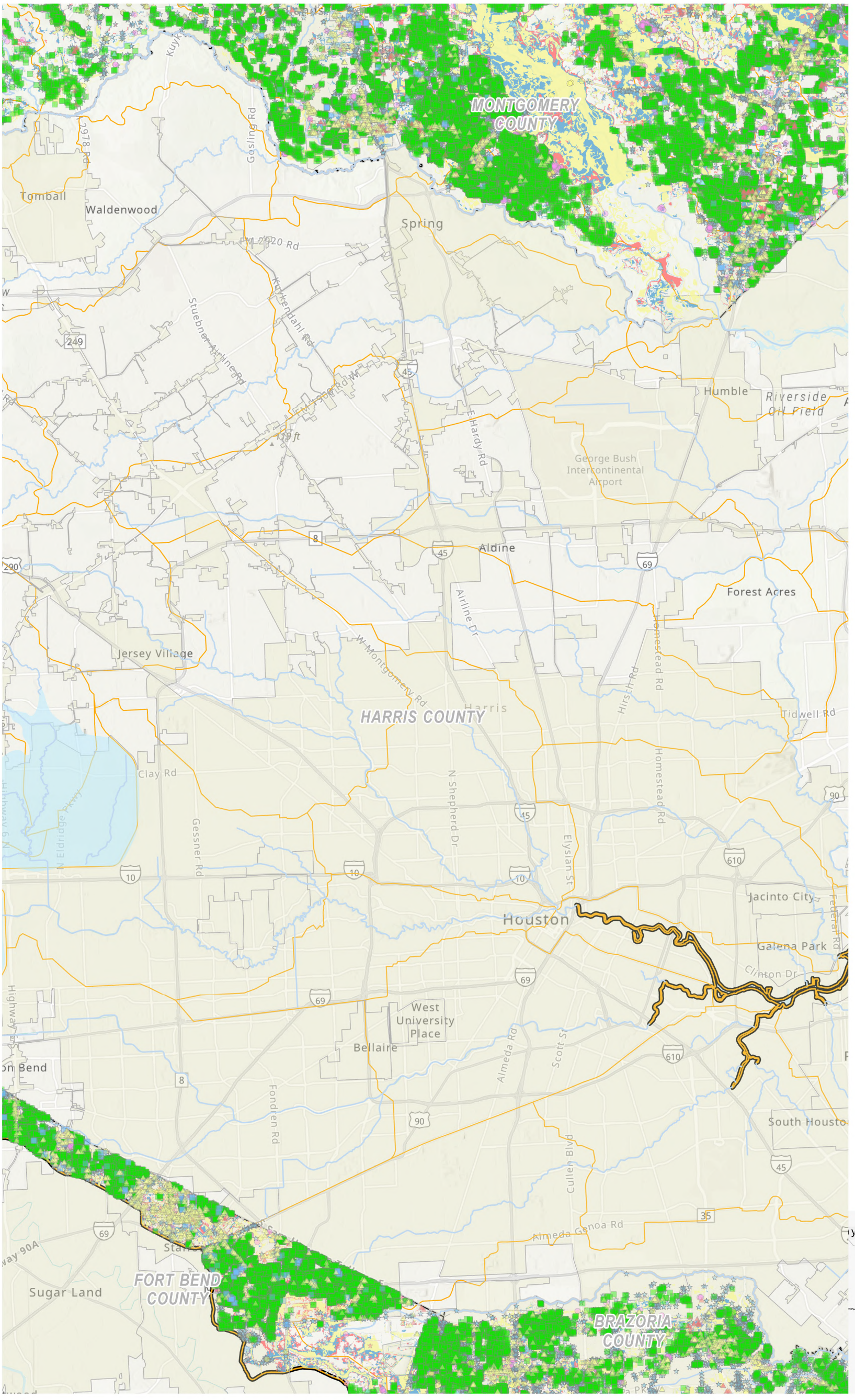


Legend

Future Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land

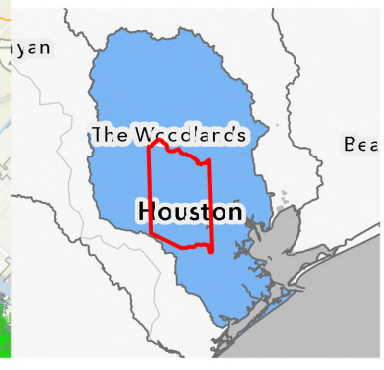
Future Flood Hazard

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 1.75 3.5

Miles



SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Vulnerability

MAP 12
14 of 17 in series

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Prepared by Freese and Nichols, Inc.

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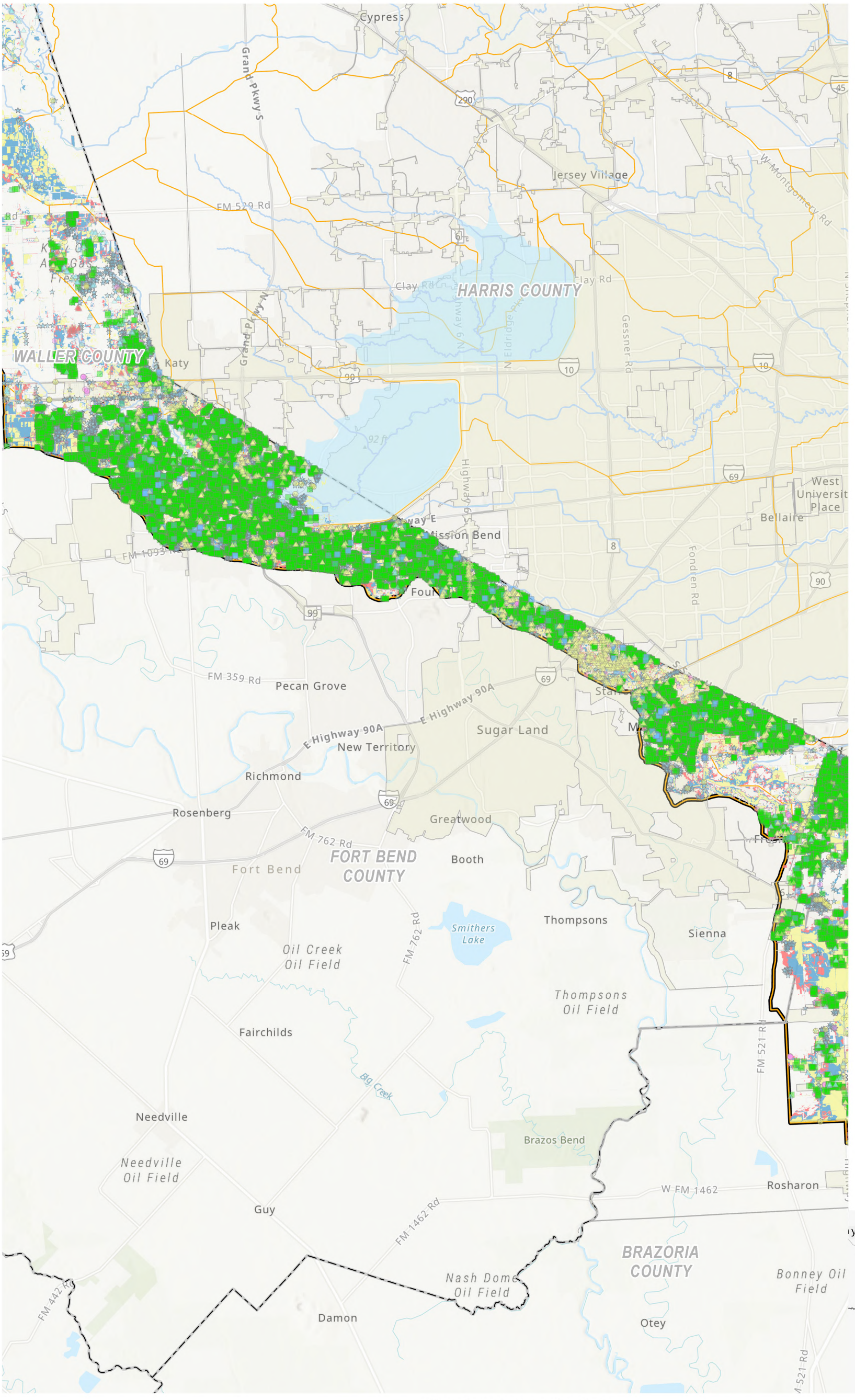

Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Vulnerability

MAP 12
15 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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Prepared by Freese and Nichols, Inc.

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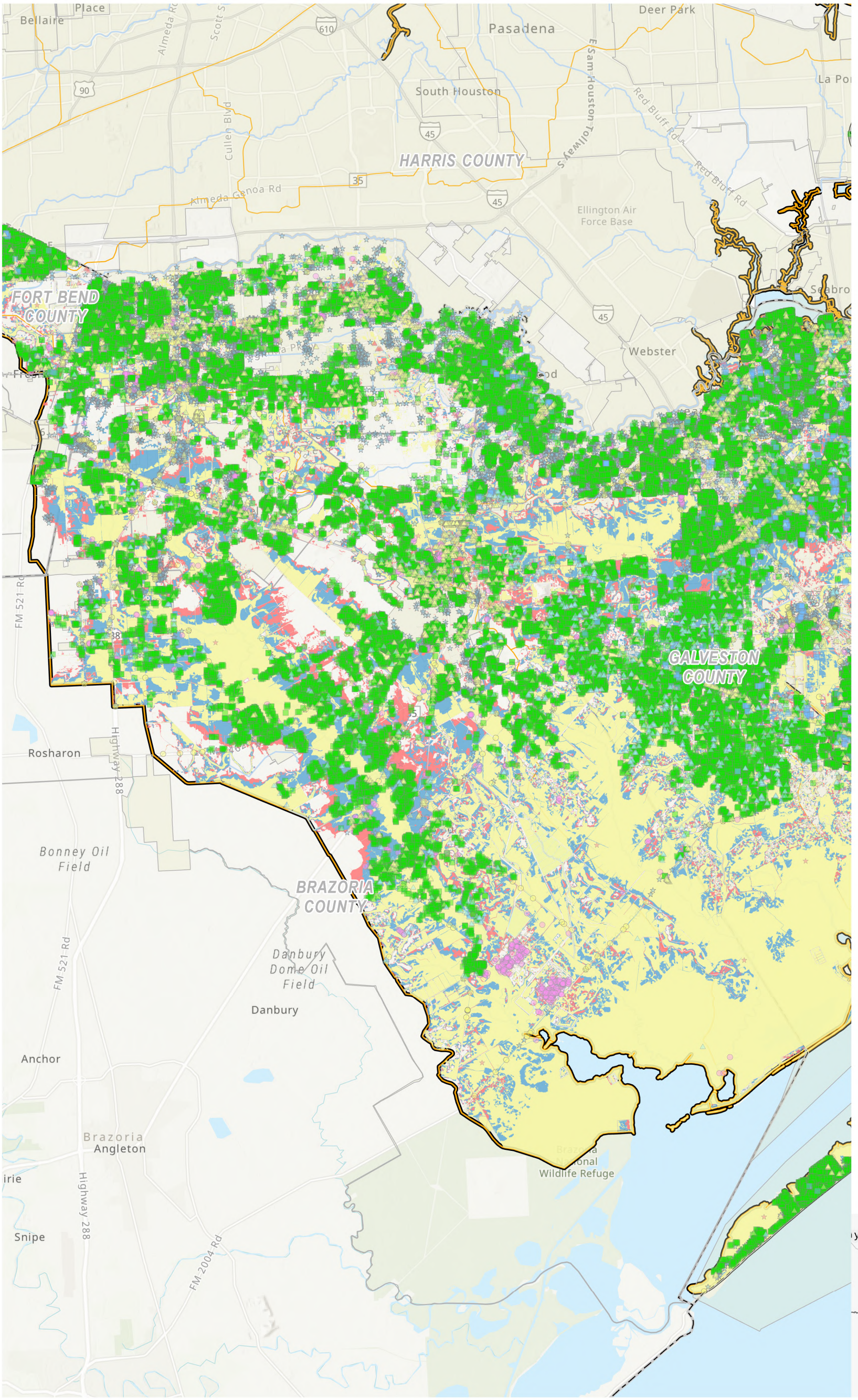
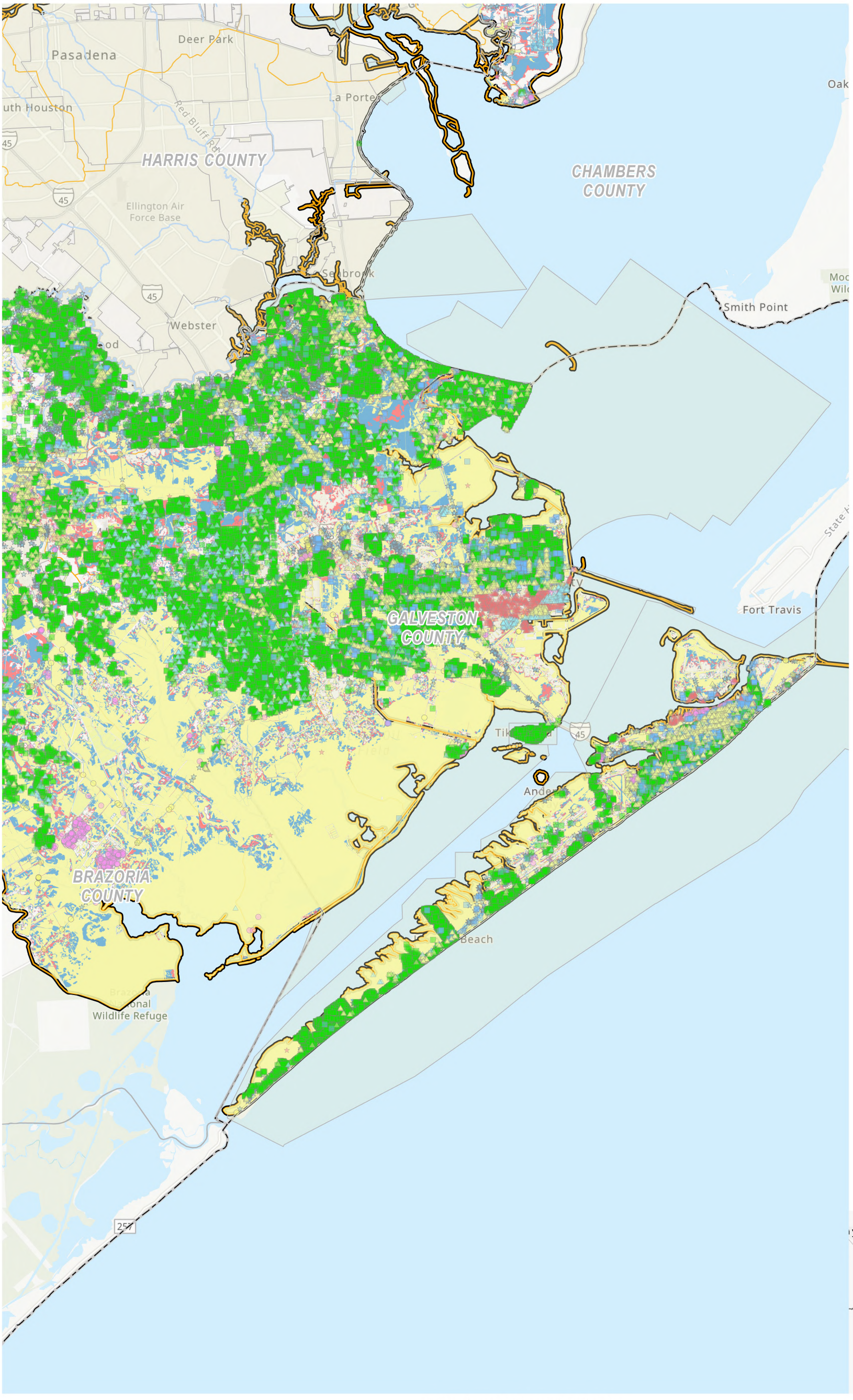


Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Vulnerability

MAP 12
16 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6



Legend

Future Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land

Future Flood Hazard

- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- 10% Annual Chance Flood Hazard
- Flood Prone Area
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 2.25 4.5

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

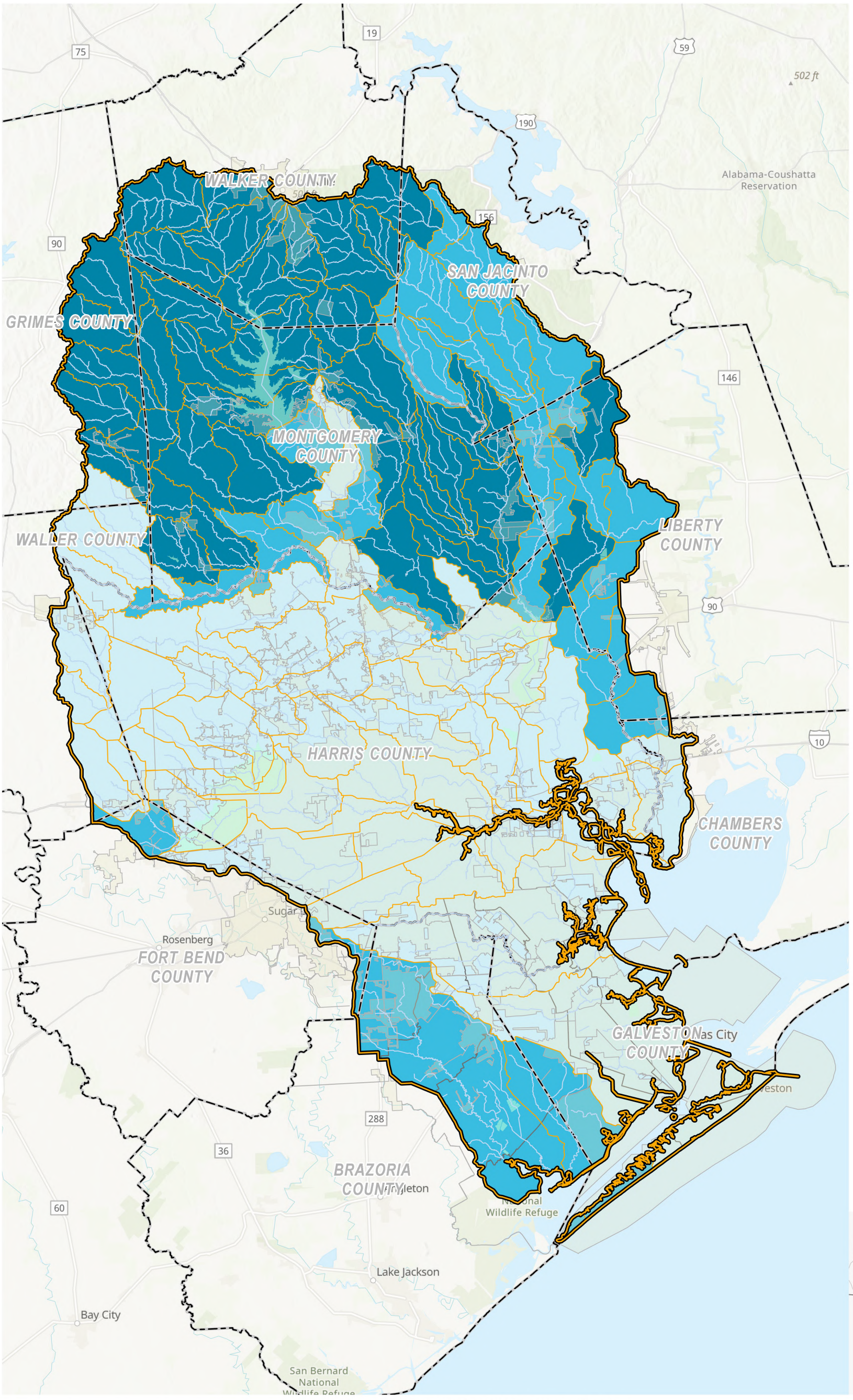
Region 6 San Jacinto
2028 Regional Flood Plan

Future Condition Vulnerability

MAP 12
17 of 17 in series

Appendix 3-B – Task 3B Maps

Map 15: Greatest Gaps in Flood Risk Information

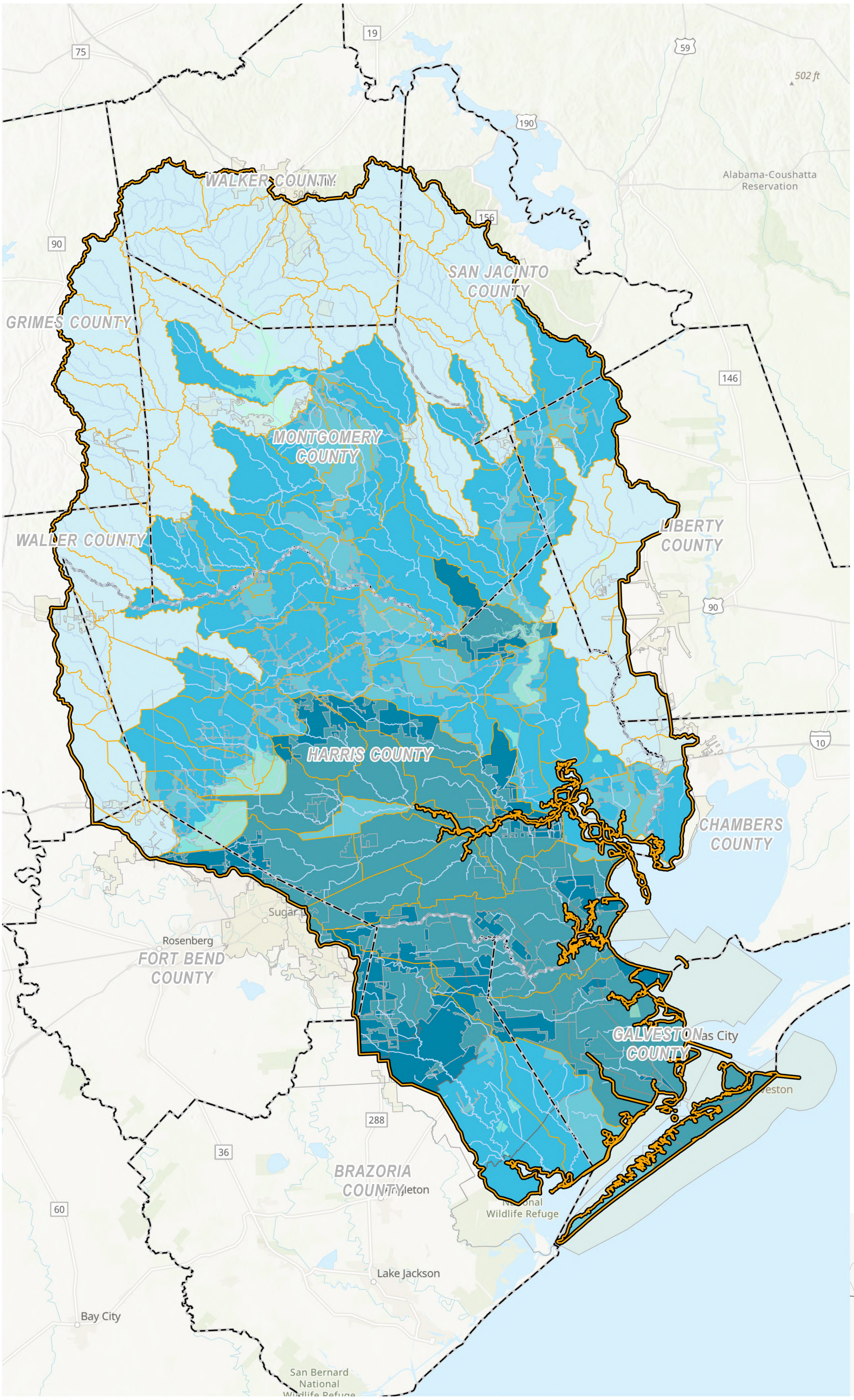


Region 6 San Jacinto
2028 Regional Flood Plan

Greatest Gaps in Flood Risk Information

MAP 15

Map 16: Greatest Flood Risk



Legend

Flood Risk Score

- High
- Medium
- Low
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 5 10

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Greatest Flood Risk

MAP 16

Appendix 3-C – Exhibit C – Table 11: Goals

Table 11 Regional Flood Plan Flood Mitigation and Floodplain Management Goals

Goal ID	Goal	Goal Theme	Term of Goal	Target Year	Applicable To	Residual Risk
06-20-0000000001	There will be 0 flood-related fatalities annually within the San Jacinto region by 2053.	Multiple	Long Term (30 year)	2053	Entire RFPG	No guarantteed change in flood risk. Risk to life associated with indirect causes such as loss of power generation or isolation from medical care remain.
06-20-0000000002	Increase the value of state and federal funds awarded within the San Jacinto Region by 10%.	Funding	Short Term (10 year)	2033	Entire RFPG	Communities that need but were not awarded funding. No direct change to mapped flood risk
06-20-0000000003	Reduce the miles of major roadways subject to inundation during the 100-year event by 10% by 2033.	Roadway and early warning systems	Short Term (10 year)	2033	Entire RFPG	Does not address risks related to less frequent events (ex. 500-year event); No change to the extent of inundation along minor roadways; 90% of major thoroughfares subject to inundation during the 100-year event maintain the same risk
06-20-0000000004	Reduce the miles of major roadways subject to inundation during the 100-year event by 25% by 2053.	Roadway and early warning systems	Long Term (30 year)	2053	Entire RFPG	Does not address risks related to less frequent events (ex. 500-year event); No change to the extent of inundation along minor roadways; 75% of major thoroughfares currently subject to inundation during the 100-year event maintain the same risk
06-20-0000000005	Increase the number of public entities that invest in stormwater infrastructure and planning by 10% by 2033.	Funding	Short Term (10 year)	2033	Entire RFPG	No change in mapped flood risk; however, new funding will maintain or reduce risk as stormwater O&M and capital improvement projects are implemented.
06-20-0000000006	Increase the number of entities that invest in stormwater infrastructure and planning by 25% by 2053.	Funding	Long Term (30 year)	2053	Entire RFPG	No change in mapped flood risk; however, new funding will maintain or reduce risk as stormwater O&M and capital improvement projects are implemented.
06-20-0000000007	All flood regulatory authorities within the region will adopt standards equal to or exceeding minimums as recommended by the San Jacinto RFPG.	Floodplain management	Short Term (10 year)	2033	Entire RFPG	No change in flood risk; reduced flood risk for new development
06-20-0000000008	Improve interjurisdictional coordination through participation in the SJRF Planning process. Target to ensure that 50% of identified stakeholders complete the SJRFP stakeholder survey and provide data for inclusion in the RFP by 2033.	Outreach and education	Short Term (10 year)	2033	Entire RFPG	No change to flood risk. Participation in the San Jacinto Region is intended to reduce flood risk by improving coordination of data sharing, planning, and identification of funding opportunities for mitigation solutions.
06-20-0000000009	Improve interjurisdictional coordination through participation in the SJRF Planning process. Target to ensure that 90% of identified stakeholders complete the SJRFP stakeholder survey and provide data for inclusion in the RFP by 2053.	Outreach and education	Long Term (30 year)	2053	Entire RFPG	No change to flood risk. Participation in the San Jacinto region is intended to reduce flood risk by improving coordination of data sharing, planning, and identification of funding opportunities for mitigation solutions.
06-20-0000000010	Expand the understanding of flood risk in the San Jacinto region.	Studies	Short Term (10 year)	2033	Entire RFPG	Does not account for ongoing impacts of climate change; improves understanding of flood risk by accounting for updated rainfall data (NOAA Atlas 14)

Table 11 Regional Flood Plan Flood Mitigation and Floodplain Management Goals

Goal ID	Goal	How will the Goal be Measured	Overarching Goal	Associated Goal IDs
06-20-0000000001	There will be 0 flood-related fatalities annually within the San Jacinto region by 2053.	Number of direct flood-related fatalities	Protect against loss of life and property (31 TAC §362.3.b.13-14)	
06-20-0000000002	Increase the value of state and federal funds awarded within the San Jacinto Region by 10%.	State and federal funds awarded to communities within the San Jacinto region	Protect against loss of life and property (31 TAC § 362.3.b.13-14)	06-20-0000000017
06-20-0000000003	Reduce the miles of major roadways subject to inundation during the 100-year event by 10% by 2033.	Number of miles of major thoroughfares subject to 100-year flood risk	Protect against loss of life and property (31 TAC § 362.3.b.13-14)	06-20-0000000004
06-20-0000000004	Reduce the miles of major roadways subject to inundation during the 100-year event by 25% by 2053.	Number of miles of major thoroughfares subject to 100-year flood risk	Protect against loss of life and property (31 TAC §362.3.b.13-14)	06-20-0000000003
06-20-0000000005	Increase the number of public entities that invest in stormwater infrastructure and planning by 10% by 2033.	Number of public entities that dedicate funding towards stormwater infrastructure and planning	Protect against loss of life and property (31 TAC § 362.3.b.13-14)	06-20-0000000006
06-20-0000000006	Increase the number of entities that invest in stormwater infrastructure and planning by 25% by 2053.	Number of public entities that dedicate funding towards stormwater infrastructure and planning	Protect against loss of life and property (31 TAC § 362.3.b.13-14)	06-20-0000000005
06-20-0000000007	All flood regulatory authorities within the region will adopt standards equal to or exceeding minimums as recommended by the San Jacinto RFPG.	Number of flood regulatory authorities that adopt standards equal to or exceeding recommended minimums by the RFPG in the second cycle	Consider floodplain management and development regulation (31 TAC § 362.b.6-7,26)	
06-20-0000000008	Improve interjurisdictional coordination through participation in the SJRF Planning process. Target to ensure that 50% of identified stakeholders complete the SJRFP stakeholder survey and provide data for inclusion in the RFP by 2033.	Number of identified stakeholders who submit survey responses or provide data for inclusion in the San Jacinto Regional Flood Plan	No neighboring areas are negatively affected and consider floodplain management and development regulation (31 TAC § 362.3.b.6-7,10,26	06-20-0000000009
06-20-0000000009	Improve interjurisdictional coordination through participation in the SJRF Planning process. Target to ensure that 90% of identified stakeholders complete the SJRFP stakeholder survey and provide data for inclusion in the RFP by 2053.	Number of identified stakeholders who submit survey responses or provide data for inclusion in the San Jacinto Regional Flood Plan	No neighboring areas are negatively affected and consider floodplain management and development regulation (31 TAC § 362.3.b.6-7,10,26	06-20-0000000008
06-20-0000000010	Expand the understanding of flood risk in the San Jacinto region.	Percentage of the floodplain quilt, by studied stream length, that is based on NOAA Atlas 14 rainfall data	Based on the best available science, data, models, and flood risk mapping (31 TAC § 362.3.b, 2)	06-20-0000000018

Table 11 Regional Flood Plan Flood Mitigation and Floodplain Management Goals

Goal ID	Goal	Goal Theme	Term of Goal	Target Year	Applicable To	Residual Risk
06-20-0000000011	Reduce the number of critical facilities subject to inundation during the 100-year event by 5% by 2033.	Critical facilities	Short Term (10 year)	2033	Entire RFPG	Does not address risks related to less frequent events (ex. 500-year event); 95% of critical facilities subject to inundation during the 100-year event maintain the same flood risk
06-20-0000000012	Reduce the number of critical facilities subject to inundation during the 100-year event by 20% by 2053.	Critical facilities	Long Term (30 year)	2053	Entire RFPG	Does not address risks related to less frequent events (ex. 500-year event); 80% of critical facilities subject to inundation during the 100-year event maintain the same flood risk
06-20-0000000013	At least 35% of all flood mitigation strategies (FMSs) and flood mitigation projects (FMPs) identified within the regional flood plan will incorporate nature-based practices by 2033.	Nature-based	Short Term (10 year)	2033	Entire RFPG	No residual risk as compared to equivalent conventional practices
06-20-0000000014	At least 90% of flood mitigation strategies (FMSs) and flood mitigation projects (FMPs) identified within the regional flood plan will incorporate nature-based practices by 2053.	Nature-based	Long Term (30 year)	2053	Entire RFPG	No residual risk as compared to equivalent conventional practices
06-20-0000000015	Reduce the number of structures subject to inundation during the 100-year event by 25% by 2053.	Structures and population	Long Term (30 year)	2053	Entire RFPG	Does not address flood risk related to less frequent events (ex. 500-year event); 75% of structures subject to inundation during the 100-year event maintain the same flood risk
06-20-0000000016	Collect 75% of infrastructure data from flood regulatory authorities by 2038.	Infrastructure	Short Term (10 year)	2038	Entire RFPG	No change to flood risk. Participation in the San Jacinto Region is intended to reduce flood risk by improving coordination of data sharing.
06-20-0000000017	Increase the FIF funds awarded within the San Jacinto Region by 10% based on $65 million previously awarded as of August 2025.	Funding	Short Term (10 year)	2038	Entire RFPG	Communities that need but were not awarded funding. No direct change to mapped flood risk.
06-20-0000000018	Increase the number of entities regulating floodplains based on Atlas 14 rainfall data to 100%.	Floodplain management	Short Term (10 year)	2038	Entire RFPG	Does not account for ongoing impacts of climate change; improves regulation of flood risk by accounting for updated rainfall data (NOAA Atlas 14).

Table 11 Regional Flood Plan Flood Mitigation and Floodplain Management Goals

Goal ID	Goal	How will the Goal be Measured	Overarching Goal	Associated Goal IDs
06-20-0000000011	Reduce the number of critical facilities subject to inundation during the 100-year event by 5% by 2033.	Number of critical facilities subject to 100-year flood risk	Protect against loss of life and property (31 TAC § 362.3.b.13-14)	06-20-0000000012
06-20-0000000012	Reduce the number of critical facilities subject to inundation during the 100-year event by 20% by 2053.	Number of critical facilities subject to 100-year flood risk	Protect against loss of life and property (31 TAC § 362.3.b.13-14)	06-20-0000000011
06-20-0000000013	At least 35% of all flood mitigation strategies (FMSs) and flood mitigation projects (FMPs) identified within the regional flood plan will incorporate nature-based practices by 2033.	Number of FMSs and FMPs that incorporate nature-based practices as defined within the San Jacinto Regional Flood Plan	Include nature-based features (31 TAC § 362.3.b. 17,24)	06-20-0000000014
06-20-0000000014	At least 90% of flood mitigation strategies (FMSs) and flood mitigation projects (FMPs) identified within the regional flood plan will incorporate nature-based practices by 2053.	Number of FMSs and FMPs that incorporate nature-based practices as defined within the San Jacinto Regional Flood Plan	Include nature-based features (31 TAC § 362.3.b. 17,24)	06-20-0000000013
06-20-0000000015	Reduce the number of structures subject to inundation during the 100-year event by 25% by 2053.	Number of structures subject to 100-year flood risk	Protect against loss of life and property (31 TAC § 362.3.b.13-14)	
06-20-0000000016	Collect 75% of infrastructure data from flood regulatory authorities by 2038.	Number of flood regulatory authorities providing infrastructure data through survey and outreach efforts	Based on the best available science, data, models, and flood risk mapping (31 TAC § 362.3.b, 2)	
06-20-0000000017	Increase the FIF funds awarded within the San Jacinto Region by 10% based on $65 million previously awarded as of August 2025.	FIF funds awarded to communities within the San Jacinto region	Protect against loss of life and property (31 TAC § 362.3.b.13-14)	06-20-0000000002
06-20-0000000018	Increase the number of entities regulating floodplains based on Atlas 14 rainfall data to 100%.	Number of flood regulatory authorities with adopted and regulated floodplains based on NOAA Atlas 14 rainfall data	Based on the best available science, data, models, and flood risk mapping (31 TAC § 362.3.b, 2)	06-20-0000000010

Appendix 4-A – Exhibit C – Table 12: Identified FMEs

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000001	Durant Street Storm Sewer and Pavement Improvements - Phase 1	Further study of Durant Street Phase 1 to reduce flood risk with upgrades to storm sewer system, concrete curb, gutter, pavement, and sidewalk.	Brazoria	06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Project Planning	0.001817	Urban or Local	City of Alvin
06-51-0000000002	Durant Street Storm Sewer and Pavement Improvements - Phase 2	Further study of Durant Street Phase 2 to reduce flood risk with upgrades to storm sewer system, concrete curb, gutter, pavement, and sidewalk.	Brazoria	06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Project Planning	0.00213	Urban or Local	City of Alvin
06-51-0000000003	City of Arcola Regional Drainage Improvements	Further study of proposed flood risk reduction project that includes various drainage improvement alternatives.	Fort Bend	06-02-0402040400	Project Planning	2.598059	Urban or Local	City of Arcola
06-51-0000000004	City of Stafford Drainage Improvements	Further study of proposed flood risk reduction project that includes drainage improvements to the Stafford Oaks neighborhood.	Fort Bend		Project Planning	0.482396	Urban or Local	City of Stafford
06-51-0000000005	Missouri City Estates Drainage Improvements	Further study of proposed flood risk reduction project that includes drainage improvements to Missouri City Estates.	Fort Bend, Harris	06-02-0401040401	Project Planning	0.114604	Urban or Local	City of Stafford
06-51-0000000011	City of Galveston Master Drainage Study	City wide drainage and flood risk reduction planning study of Galveston to include Atlas 14 rainfall.	Galveston	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040500	Watershed Planning	211.0799	Coastal, Urban or Local	City of Galveston
06-51-0000000013	City of Bellaire Local Drainage System Asset Management	Study to develop asset management plan / capital improvement plan to repair/replace local drainage infrastructure over time to ensure it is in good working order and meeting the level of service desired by the City.	Harris	06-02-0401040402, 06-02-0401040401	Project Planning	3.584954	Urban or Local	City of Bellaire
06-51-0000000014	City of Bellaire Regional Detention Facilities Development	Effort to identify and develop/design regional detention facilities to either provide flood risk reduction or to facilitate the construction of local or regional drainage improvement projects.	Harris	06-02-0401040402, 06-02-0401040401	Project Planning	3.584954	Urban or Local	City of Bellaire
06-51-0000000015	City of Bellaire Cypress Ditch Drainage Improvements	Perform engineering services to develop and advance a flood risk reduction project in the Cypress Ditch area, servicing the southern part of the City of Bellaire.	Harris	06-02-0401040402, 06-02-0401040401	Project Planning	3.584954	Urban or Local	City of Bellaire
06-51-0000000016	City of Bunker Hill Drainage Projects	Further study of proposed localized and regional flood risk reduction projects within the City of Bunker Hill.	Harris	06-02-0401040303	Project Planning	1.43671	Urban or Local	City of Bunker Hill Village
06-51-0000000017	City of Bunker Hill Master Drainage and Stormwater Management Plan	Further study of Master Drainage and Stormwater Management Plan for the City of Bunker Hill to include Atlas 14 rainfall.	Harris	06-02-0401040303	Watershed Planning	1.43671	Urban or Local	City of Bunker Hill Village
06-51-0000000022	Lower Clear Creek & Dickinson Bayou Flood Mitigation Plan - Dickinson Bayou Alternative 2	Further refine the DB Alt. 2 in the LCCDBFMP (2021), including alternative analysis to McFarland Detention Basin, W Cemetery Rd. Detention Basin, Hilton Detention Basin, Magnolia Bayou & Borden Gully Detention Basins, and Diversion Channel at Desel Dr..	Brazoria, Galveston, Fort Bend, Chambers, Harris	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040500, 06-02-0402040100	Project Planning	86.02052	Riverine, Coastal, Urban or Local	City of League City

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000001	Durant Street Storm Sewer and Pavement Improvements - Phase 1	West Brazoria County Drainage District, Brazoria, Alvin, Galveston	No	110000	Bonds/Other Financing (100%)	110000	3521	2664	15260	16
06-51-0000000002	Durant Street Storm Sewer and Pavement Improvements - Phase 2	West Brazoria County Drainage District, Brazoria, Alvin, Galveston	No	90000	Bonds/Other Financing (100%)	90000	3521	2664	15260	16
06-51-0000000003	City of Arcola Regional Drainage Improvements	Fort Bend, Arcola	No	233000			41	37	39	0
06-51-0000000004	City of Stafford Drainage Improvements	Fort Bend, Stafford	No	300000			0	0	0	0
06-51-0000000005	Missouri City Estates Drainage Improvements	Fort Bend, Stafford, Harris	No	100000			0	0	0	0
06-51-0000000011	City of Galveston Master Drainage Study	Galveston, Galveston	No	1000000			23114	20363	64429	504
06-51-0000000013	City of Bellaire Local Drainage System Asset Management	Bellaire, Harris County Flood Control District, Harris	No	300000	Bonds/Other Financing (25%)	75000	5877	5537	25741	69
06-51-0000000014	City of Bellaire Regional Detention Facilities Development	Bellaire, Harris County Flood Control District, Harris	No	1000000	Bonds/Other Financing (25%)	250000	5877	5537	25741	69
06-51-0000000015	City of Bellaire Cypress Ditch Drainage Improvements	Bellaire, Harris County Flood Control District, Harris	No	1000000	Bonds/Other Financing (25%)	250000	5877	5537	25741	69
06-51-0000000016	City of Bunker Hill Drainage Projects	Bellaire, Harris County Flood Control District, Harris	No	100000			0	0	0	0
06-51-0000000017	City of Bunker Hill Master Drainage and Stormwater Management Plan	Bellaire, Harris County Flood Control District, Harris	No	170000			0	0	0	0
06-51-0000000022	Lower Clear Creek & Dickinson Bayou Flood Mitigation Plan - Dickinson Bayou Alternative 2	Harris, Harris County Flood Control District, Galveston	No	1090000			40129	34104	89177	636

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000001	Durant Street Storm Sewer and Pavement Improvements - Phase 1	0	0	56.88999939	258.7399902
06-51-0000000002	Durant Street Storm Sewer and Pavement Improvements - Phase 2	0	0	56.88999939	258.7399902
06-51-0000000003	City of Arcola Regional Drainage Improvements	0	0	0.219999999	1.230000019
06-51-0000000004	City of Stafford Drainage Improvements	0	0	0	0
06-51-0000000005	Missouri City Estates Drainage Improvements	0	0	0	0
06-51-0000000011	City of Galveston Master Drainage Study	0	0	422.4400024	263.7099915
06-51-0000000013	City of Bellaire Local Drainage System Asset Management	0	0	70.91999817	0.159999996
06-51-0000000014	City of Bellaire Regional Detention Facilities Development	0	0	70.91999817	0.159999996
06-51-0000000015	City of Bellaire Cypress Ditch Drainage Improvements	0	0	70.91999817	0.159999996
06-51-0000000016	City of Bunker Hill Drainage Projects	0	0	0	0
06-51-0000000017	City of Bunker Hill Master Drainage and Stormwater Management Plan	0	0	0	0
06-51-0000000022	Lower Clear Creek & Dickinson Bayou Flood Mitigation Plan - Dickinson Bayou Alternative 2	26	26	722.7800293	2683.209961

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000024	Williamsburg Subdivision Drainage Assessment	Further study of a flood risk reduction project in the Williamsburg Subdivision which includes additional detail for the design of a required weir structure.	Harris	06-02-0401040104	Project Planning	12.76342	Riverine, Urban or Local	Harris County
06-51-0000000025	Preliminary Drainage & Infrastructure Improvements Happy Hide A Way Subdivision	Additional analysis in the Jackson Bayou watershed, specifically along R102-00-00, is needed to determine the necessary improvements and provide a no impact solution.	Harris	06-02-0401040704	Project Planning	0.261431	Riverine, Urban or Local	Harris County
06-51-0000000026	Bridgewater Village & Enclave at Bridgewater Drainage Analysis	Alternative analysis and assessment of additional protection of basin needed during design to control flows for 100-yr event.	Harris	06-02-0401040203	Project Planning	0.170291	Riverine, Urban or Local	Harris County
06-51-0000000027	Lake Shadows Subdivision Drainage Improvements	Further study and development of a FMP of recommended alternative 5 which includes installing the Foley trunk line downstream of the pipelines, upsizing and installing new outfalls, and installing the Belle Cote trunk line.	Harris	06-02-0401010502, 06-02-0401040704	Project Planning	1.444033	Urban or Local	Harris County
06-51-0000000028	Gum Gully Rd, W Stroker Rd, Wigwam Ln, and Related Infrastructure Drainage Improvements	Further study as report recommendation (2019) indicates that regional drainage improvements to the streams must be studied and implemented before Harris County can obtain a benefit from roadway drainage improvements.	Harris	06-02-0401040704	Project Planning	0.503369	Riverine, Urban or Local	Harris County
06-51-0000000029	Spanish Cove Subdivision Drainage Assessment	Additional analysis needed to confirm no negative effects. It is expected the larger channel can safely convey the increase in flows, but this must be demonstrated during the project design phase.	Harris	06-02-0401010502, 06-02-0401040704	Project Planning	0.793754	Riverine, Urban or Local	Harris County
06-51-0000000031	Shoreacres Drainage Assessment	Further analysis necessary to determine downstream impacts and whether any additional volume in A104-11-00 would be available during a coincident event on Taylor Bayou.	Chambers, Harris	06-02-0402040100	Project Planning	0.958358	Riverine, Urban or Local	City of Shoreacres
06-51-0000000032	Overflow Flooding between Burlington Northern RR and Huffsmith-Kohrville Rd	Willow Creek - Overflow Flooding between Burlington Northern Railroad and Hufsmith-Kohrville Rd	Harris	06-02-0401020106, 06-02-0401020105, 06-02-0401020205, 06-02-0401020210, 06-02-0401020209, 06-02-0401020212	Project Planning	2.173941	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000034	Galveston Bay Watershed Plan - Analysis of PA07 100-year Conveyance Project	Galveston Bay Watershed Plan - Analysis of PA07 100-year Conveyance Project	Chambers, Harris	06-02-0401040706, 06-02-0402040100	Project Planning	19.29298	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000035	Galveston Bay Watershed Plan - Analysis of PA08 100-year Conveyance Project	Galveston Bay Watershed Plan - Analysis of PA08 100-year Conveyance Project	Chambers, Harris	06-02-0401040706, 06-02-0402040100	Project Planning	19.29298	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000024	Williamsburg Subdivision Drainage Assessment	Houston, Harris County Flood Control District, Harris, Katy	No	1260000	Harris County Bond Program 2018		2	2	8	0
06-51-0000000025	Preliminary Drainage & Infrastructure Improvements Happy Hide A Way Subdivision	Harris County Flood Control District, Harris	No	110000			0	0	0	0
06-51-0000000026	Bridgewater Village & Enclave at Bridgewater Drainage Analysis	Houston, Harris County Flood Control District, Harris	No	750000			0	0	0	0
06-51-0000000027	Lake Shadows Subdivision Drainage Improvements	Harris County Flood Control District, Harris	No	280000			41	38	149	0
06-51-0000000028	Gum Gully Rd, W Stroker Rd, Wigwam Ln, and Related Infrastructure Drainage Improvements	Harris County Flood Control District, Harris	No	130000	Harris County Bond Program 2018		3	0	4	0
06-51-0000000029	Spanish Cove Subdivision Drainage Assessment	Harris County Flood Control District, Harris	No	150000			0	0	0	0
06-51-0000000031	Shoreacres Drainage Assessment	Shoreacres, Harris County Flood Control District, Harris	No	100000			801	787	2148	3
06-51-0000000032	Overflow Flooding between Burlington Northern RR and Huffsmith-Kohrville Rd	Houston, Tomball, Harris County Flood Control District, Harris	Yes	590000			10	0	8	0
06-51-0000000034	Galveston Bay Watershed Plan - Analysis of PA07 100-year Conveyance Project	La Porte, Harris County Flood Control District, Harris	Yes	400000			3301	2855	8623	107
06-51-0000000035	Galveston Bay Watershed Plan - Analysis of PA08 100-year Conveyance Project	La Porte, Harris County Flood Control District, Harris	Yes	800000			3301	2855	8623	107

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000024	Williamsburg Subdivision Drainage Assessment	0	0	0.620000005	6.599999905
06-51-0000000025	Preliminary Drainage & Infrastructure Improvements Happy Hide A Way Subdivision	0	0	0	0
06-51-0000000026	Bridgewater Village & Enclave at Bridgewater Drainage Analysis	0	0	0.01	0
06-51-0000000027	Lake Shadows Subdivision Drainage Improvements	0	0	0	0.479999989
06-51-0000000028	Gum Gully Rd, W Stroker Rd, Wigwam Ln, and Related Infrastructure Drainage Improvements	0	0	0.059999999	0
06-51-0000000029	Spanish Cove Subdivision Drainage Assessment	0	0	0	0
06-51-0000000031	Shoreacres Drainage Assessment	1	1	17.17000008	0.230000004
06-51-0000000032	Overflow Flooding between Burlington Northern RR and Huffsmith-Kohrville Rd	1	1	0.50999999	2.660000086
06-51-0000000034	Galveston Bay Watershed Plan - Analysis of PA07 100-year Conveyance Project	0	0	55.06000137	17.81999969
06-51-0000000035	Galveston Bay Watershed Plan - Analysis of PA08 100-year Conveyance Project	0	0	55.06000137	17.81999969

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000037	City of Alvin Flood Gauges	Study to identify areas where best to purchase additional flood gauges to be placed at bayous and key high water areas within City of Alvin.	Brazoria, Galveston, Fort Bend	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Project Planning	25.08829	Urban or Local	City of Alvin
06-51-0000000038	Brazoria County Costal River Flood Extent Analysis	Study to determine flood extents, in Brazoria County, of recent hurricane disasters, by analyzing the post event aerial imagery through a GIS image classification process, and compare the flood extent area to other sources, such as LIDAR.	Brazoria	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Watershed Planning	1481.87	Riverine	Brazoria County
06-51-0000000039	City of Alvin Master Drainage Plan	Comprehensive review of current drainage, studies and recommendations for future projects and studies to create a Master Drainage Plan for the City of Alvin.	Brazoria, Galveston, Fort Bend	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Watershed Planning	25.08829	Urban or Local	City of Alvin
06-51-0000000040	City of Alvin Open Space Preservation	Study for open space preservation within adjacent development, dedication of conservation easements or fee simple acquisition of land along Mustang Bayou.	Brazoria, Galveston, Fort Bend	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Watershed Planning	25.08829	Riverine, Urban or Local	City of Alvin
06-51-0000000041	City of Manvel SH. 6 Drainage Improvements	Further study of state Highway 6 drainage improvements, including storm sewer upgrades to meet current capacities, ditch deepening, and sub regional detention ponds. Project will also widen and reshape ditches, and upgrade culverts.	Brazoria	06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Project Planning	27.4094	Urban or Local	City of Manvel
06-51-0000000042	Chambers County Dam and Levee Failure Inundation Map Update	Further study for all participating jurisdiction to update dam and levee failure inundation maps, and update floodplain and floodway maps throughout the county. The updated maps will also be made available to the public.	Chambers	06-02-0402030105, 06-02-0402030104, 06-02-0402030106, 06-02-0402030200	Watershed Planning	865.5478	Urban or Local	Chambers County
06-51-0000000043	City of Alvin Detention Pond Construction - Mustang and Dickinson Bayou	Further assessment and design of detention ponds needed along Mustang and Dickinson Bayous to reduce flood risk in the City of Alvin.	Brazoria, Galveston, Fort Bend	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Project Planning	25.08829	Riverine	City of Alvin
06-51-0000000044	Chambers County Property Protection	Study to determine flood risk reduction potential of clearing obstacles, widen and reshape ditches, and upgrade culverts to restore adequate drainage to mitigate flooding throughout all participating jurisdictions.	Chambers	06-02-0402030105, 06-02-0402030104, 06-02-0402030106, 06-02-0402030200	Project Planning	865.5478	Urban or Local	Chambers County
06-51-0000000045	City of Manvel Flora St. Drainage Improvements	Study of possible Flora Street drainage improvements: widen and reshape ditches, and upgrade culverts to restore adequate drainage to mitigate flooding in Manvel neighborhoods.	Brazoria	06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Project Planning	27.4094	Urban or Local	City of Manvel
06-51-0000000046	Brazoria County Drainage Improvements	Drainage study needed and evaluated of alternatives include: Widen and reshape drainage ditches, and upgrade culverts to restore adequate drainage to mitigate flooding.	Brazoria	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Project Planning	1481.87	Urban or Local	Brazoria County

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000037	City of Alvin Flood Gauges	Brazos River Authority, West Brazoria County Drainage District, Alvin	No	50000	Other (50%)	2500000	3445	2605	15192	16
06-51-0000000038	Brazoria County Costal River Flood Extent Analysis	Brazos River Authority, West Brazoria County Drainage District, Brazoria, Gulf Coast Protection District	No	50000			18836	14338	38615	246
06-51-0000000039	City of Alvin Master Drainage Plan	West Brazoria County Drainage District, Brazoria, Alvin	No	100000	Entity/ Budget Funds (50%)	5000000	3445	2605	15192	16
06-51-0000000040	City of Alvin Open Space Preservation	West Brazoria County Drainage District, Brazoria, Alvin	No	500000	Other (0%)		3445	2605	15192	16
06-51-0000000041	City of Manvel SH. 6 Drainage Improvements	West Brazoria County Drainage District, Brazoria, Manvel	No	3000000			1249	965	6741	8
06-51-0000000042	Chambers County Dam and Levee Failure Inundation Map Update	Gulf Coast Protection District, Chambers, Liberty County Water Control District 1	No	25000			151	56	715	0
06-51-0000000043	City of Alvin Detention Pond Construction - Mustang and Dickinson Bayou	Montgomery, Conroe	No	200000	Entity/ Budget Funds (25%)	50000	3445	2605	15192	16
06-51-0000000044	Chambers County Property Protection	Chambers, Trinity River Authority of Texas, Liberty County Water Control District 1	No	500000			151	56	715	0
06-51-0000000045	City of Manvel Flora St. Drainage Improvements	Montgomery, Conroe	No	100000			1249	965	6741	8
06-51-0000000046	Brazoria County Drainage Improvements	Montgomery, Conroe	No	350000			18836	14338	38615	246

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000037	City of Alvin Flood Gauges	0	0	56.81000137	262.2999878
06-51-0000000038	Brazoria County Costal River Flood Extent Analysis	0	0	328.0700073	8584.160156
06-51-0000000039	City of Alvin Master Drainage Plan	0	0	56.81000137	262.2999878
06-51-0000000040	City of Alvin Open Space Preservation	0	0	56.81000137	262.2999878
06-51-0000000041	City of Manvel SH. 6 Drainage Improvements	0	0	43.31999969	178.8099976
06-51-0000000042	Chambers County Dam and Levee Failure Inundation Map Update	0	0	7.300000191	354.0799866
06-51-0000000043	City of Alvin Detention Pond Construction - Mustang and Dickinson Bayou	0	0	56.81000137	262.2999878
06-51-0000000044	Chambers County Property Protection	0	0	7.300000191	354.0799866
06-51-0000000045	City of Manvel Flora St. Drainage Improvements	0	0	43.31999969	178.8099976
06-51-0000000046	Brazoria County Drainage Improvements	0	0	328.0700073	8584.160156

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000047	City of Manvel Various Drainage Improvements	Study of various drainage improvements, including storm sewer rehabilitation and ditch deepening.	Brazoria	06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Project Planning	27.4094	Urban or Local	City of Manvel
06-51-0000000048	Brazoria County Property Protection	Further study required to assess alternatives to restore drainage and mitigate flooding throughout the county.	Brazoria	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Project Planning	1481.87	Urban or Local	Brazoria County
06-51-0000000049	City of Hillcrest Village Drainage Improvements	Further study and FMP development required to assess alternatives to restore drainage and mitigate flooding throughout the City of Hillcrest Village.	Brazoria	06-02-0402040400	Project Planning	0.438197	Urban or Local	City of Hillcrest Village
06-51-0000000050	West Chocolate Bayou (CR 383 Ditch)	Further study including Atlas 14 rainfall incorporation and Benefit Cost Analysis of proposed channel modifications included in the City of Pearland master drainage plan.	Brazoria, Fort Bend	06-02-0402040400	Project Planning	3.372056	Riverine	Brazoria Drainage District 4
06-51-0000000051	West Fork Chocolate (Cold River Ranch Ditch)	Further study of proposed channel modifications to Cold River Ranch Ditch included in the City of Pearland master drainage plan to include Atlas 14 rainfall.	Brazoria	06-02-0402040400	Project Planning	1.608492	Riverine	Brazoria Drainage District 4
06-51-0000000052	West Fork Chocolate Bayou	Further study including Atlas 14 rainfall incorporation and Benefit Cost Analysis of proposed channel modifications included in the City of Pearland master drainage plan.	Brazoria, Fort Bend	06-02-0402040400	Project Planning	13.89178	Riverine	Brazoria Drainage District 4
06-51-0000000053	East Chocolate Bayou (E103-00-00)	Further study including Atlas 14 rainfall incorporation and Benefit Cost Analysis of proposed channel modifications included in the City of Pearland master drainage plan.	Brazoria	06-02-0402040400	Project Planning	0.48644	Riverine	Brazoria Drainage District 4
06-51-0000000054	Cannon Ditch Segment 2	Further study including Atlas 14 rainfall incorporation and Benefit Cost Analysis of proposed channel modifications included in the City of Pearland master drainage plan.	Brazoria	06-02-0402040200, 06-02-0402040100	Project Planning	5.70859	Riverine	Brazoria Drainage District 4
06-51-0000000055	City of Galveston Coastal Road Elevation	Elevate coastal roads to better protect public during evacuation and to protect the roads from flood damage, where feasible.	Galveston	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040500	Project Planning	211.0799	Coastal	City of Galveston
06-51-0000000056	Mary's Creek Lower Segment	Study to develop project into a FMP. Project will provide a 25-year LOS; Channel modifications from SH35 to downstream of Pearland Pkwy. and 1670 ac-ft mitigation.	Brazoria, Galveston	06-02-0402040100	Project Planning	1.147714	Riverine	City of Pearland
06-51-0000000057	Hickory Slough (Upper Segment)	Further study including Atlas 14 rainfall incorporation and Benefit Cost Analysis of proposed channel modifications included in the City of Pearland master drainage plan.	Brazoria	06-02-0402040100	Project Planning	4.745045	Riverine	City of Pearland

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000047	City of Manvel Various Drainage Improvements	Montgomery, Conroe	No	460000			1249	965	6741	8
06-51-0000000048	Brazoria County Property Protection	Montgomery, Conroe	No	500000			18836	14338	38615	246
06-51-0000000049	City of Hillcrest Village Drainage Improvements	Montgomery, Conroe	No	130000			128	121	333	1
06-51-0000000050	West Chocolate Bayou (CR 383 Ditch)	Montgomery, Conroe	No	253000			0	0	0	0
06-51-0000000051	West Fork Chocolate (Cold River Ranch Ditch)	West Brazoria County Drainage District, Brazoria, Manvel, Iowa Colony	No	200000			60	54	56	0
06-51-0000000052	West Fork Chocolate Bayou	Brazoria, Manvel, Fort Bend, Arcola, Iowa Colony, West Brazoria County Drainage District	No	2072000			295	239	393	0
06-51-0000000053	East Chocolate Bayou (E103-00-00)	West Brazoria County Drainage District, Brazoria, Iowa Colony	No	48000			0	0	0	0
06-51-0000000054	Cannon Ditch Segment 2	West Brazoria County Drainage District, Brazoria, Pearland, Manvel	No	932000			572	342	641	0
06-51-0000000055	City of Galveston Coastal Road Elevation	Galveston, Galveston	No	1000000			21848	19133	64299	500
06-51-0000000056	Mary's Creek Lower Segment	Brazoria, Pearland, Friendswood, Galveston, West Brazoria County Drainage District	No	2436000	Other		75	60	435	1
06-51-0000000057	Hickory Slough (Upper Segment)	West Brazoria County Drainage District, Brazoria, Pearland	No	1136000	Other		413	91	915	4

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000047	City of Manvel Various Drainage Improvements	0	0	43.31999969	178.8099976
06-51-0000000048	Brazoria County Property Protection	0	0	328.0700073	8584.160156
06-51-0000000049	City of Hillcrest Village Drainage Improvements	0	0	2.079999924	0.140000001
06-51-0000000050	West Chocolate Bayou (CR 383 Ditch)	0	0	0.02	0.050000001
06-51-0000000051	West Fork Chocolate (Cold River Ranch Ditch)	0	0	1.200000048	0.449999988
06-51-0000000052	West Fork Chocolate Bayou	0	0	6.010000229	157.0399933
06-51-0000000053	East Chocolate Bayou (E103-00-00)	0	0	0.02	0
06-51-0000000054	Cannon Ditch Segment 2	0	0	2.779999971	26.85000038
06-51-0000000055	City of Galveston Coastal Road Elevation	0	0	408.6300049	260.8900146
06-51-0000000056	Mary's Creek Lower Segment	1	1	2.640000105	0.449999988
06-51-0000000057	Hickory Slough (Upper Segment)	0	0	1.570000052	6.489999771

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000059	City of Manvel Gates Loop Subdivision Drainage Improvement	Further study proposed Gates Loop subdivision drainage improvement.	Brazoria	06-02-0402040400	Project Planning	0.045648	Urban or Local	City of Manvel
06-51-0000000060	Hickory Slough Middle Segment	Further study including Atlas 14 rainfall incorporation and Benefit Cost Analysis of proposed channel modifications included in the City of Pearland master drainage plan.	Brazoria	06-02-0402040100	Project Planning	1.833248	Riverine	City of Pearland
06-51-0000000061	Mary's Creek Upper Segment	Further study including Atlas 14 rainfall incorporation and Benefit Cost Analysis of proposed channel modifications included in the City of Pearland master drainage plan.	Brazoria	06-02-0402040100	Project Planning	5.201152	Riverine	City of Pearland
06-51-0000000063	Mary's Creek Middle Segment	Further study including Atlas 14 rainfall incorporation and Benefit Cost Analysis of proposed channel modifications included in the City of Pearland master drainage plan.	Brazoria	06-02-0402040100	Project Planning	4.227454	Riverine	City of Pearland
06-51-0000000064	Mustang Bayou Middle Segment	Further study including Atlas 14 rainfall incorporation and Benefit Cost Analysis of proposed channel modifications included in the City of Pearland master drainage plan.	Brazoria, Fort Bend	06-02-0402040400	Project Planning	5.350617	Riverine	Brazoria Drainage District 4
06-51-0000000065	Hickory Slough Lower Segment	Further study including Atlas 14 rainfall incorporation and Benefit Cost Analysis of proposed channel modifications included in the City of Pearland master drainage plan.	Brazoria	06-02-0402040100	Project Planning	1.011809	Riverine	City of Pearland
06-51-0000000066	Mustang Bayou Upper Segment	Further study including Atlas 14 rainfall incorporation and Benefit Cost Analysis of proposed channel modifications included in the City of Pearland master drainage plan.	Fort Bend	06-02-0402040400, 06-02-0402040100	Project Planning	7.070206	Riverine	Brazoria Drainage District 4
06-51-0000000067	City of Alvin Dickinson Bayou Watershed Study	Study of Dickinson Bayou Watershed to determine drainage improvement alternatives.	Brazoria, Galveston, Fort Bend	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Watershed Planning	25.08829	Riverine	City of Alvin
06-51-0000000069	City of Galveston Shoreline Protection	Further study and FMP development of a proposed shoreline protection for areas prone to coastal erosion.	Galveston	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040500	Project Planning	211.0799	Coastal	City of Galveston
06-51-0000000070	Cowart Creek Segment 16	Further study including Atlas 14 rainfall incorporation and Benefit Cost Analysis of proposed channel modifications included in the City of Pearland master drainage plan.	Brazoria	06-02-0402040100	Project Planning	2.180323	Riverine	City of Pearland
06-51-0000000071	City of Galveston Dune Restoration	Study of dune system to determine needs and flood damage reduction potential of restoration.	Galveston	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040500	Project Planning	211.0799	Coastal, Urban or Local	City of Galveston

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000059	City of Manvel Gates Loop Subdivision Drainage Improvement	West Brazoria County Drainage District, Brazoria, Manvel	No	100000			0	0	0	0
06-51-0000000060	Hickory Slough Middle Segment	Brookside Village, West Brazoria County Drainage District, Brazoria, Pearland	No	864000	Other		353	215	1275	0
06-51-0000000061	Mary's Creek Upper Segment	West Brazoria County Drainage District, Brazoria, Pearland	No	460000	Other		0	0	0	0
06-51-0000000063	Mary's Creek Middle Segment	West Brazoria County Drainage District, Brazoria, Pearland	No	628000	Other		994	745	2344	5
06-51-0000000064	Mustang Bayou Middle Segment	Brazoria, Pearland, Manvel, Fort Bend, West Brazoria County Drainage District	No	1212000			256	201	1668	1
06-51-0000000065	Hickory Slough Lower Segment	West Brazoria County Drainage District, Brazoria, Pearland	No	1048000	Other		424	377	1097	0
06-51-0000000066	Mustang Bayou Upper Segment	Houston, Fort Bend, Missouri City	No	2040000			415	367	771	0
06-51-0000000067	City of Alvin Dickinson Bayou Watershed Study	West Brazoria County Drainage District, Brazoria, Alvin	No	500000	Entity/ Budget Funds (25%)	125000	3445	2605	15192	16
06-51-0000000069	City of Galveston Shoreline Protection	Galveston, Galveston	No	50000			21848	19133	64299	500
06-51-0000000070	Cowart Creek Segment 16	West Brazoria County Drainage District, Brazoria, Pearland	No	40000	Other		150	123	278	0
06-51-0000000071	City of Galveston Dune Restoration	Galveston, Galveston	No	1000000			21848	19133	64299	500

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000059	City of Manvel Gates Loop Subdivision Drainage Improvement	0	0	0	0
06-51-0000000060	Hickory Slough Middle Segment	0	0	4.090000153	8.210000038
06-51-0000000061	Mary's Creek Upper Segment	0	0	0	0
06-51-0000000063	Mary's Creek Middle Segment	0	0	19.29000092	9.739999771
06-51-0000000064	Mustang Bayou Middle Segment	0	0	5.619999886	39.29999924
06-51-0000000065	Hickory Slough Lower Segment	0	0	6.260000229	4.769999981
06-51-0000000066	Mustang Bayou Upper Segment	3	3	4.480000019	19.52000046
06-51-0000000067	City of Alvin Dickinson Bayou Watershed Study	0	0	56.81000137	262.2999878
06-51-0000000069	City of Galveston Shoreline Protection	0	0	408.6300049	260.8900146
06-51-0000000070	Cowart Creek Segment 16	0	0	1.110000014	7.820000172
06-51-0000000071	City of Galveston Dune Restoration	0	0	408.6300049	260.8900146

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000072	City of Hillcrest Village Engineering Survey	Conduct an engineering assessment to establish proper drainage for 24 Homes located in the high risk flood Zone.	Brazoria	06-02-0402040400	Project Planning	0.438197	Urban or Local	City of Hillcrest Village
06-51-0000000076	Dredging Cedar Bayou	Study of proposed Cedar Bayou dredging to determine flood risk reduction potential.	Chambers	06-02-0402030105, 06-02-0402030104, 06-02-0402030106, 06-02-0402030200	Project Planning	44.22774	Riverine	Chambers County
06-51-0000000078	Dam and Levee Failure Inundation Map Update	Study by each jurisdiction to update their dam and levee failure inundation maps to identify the probability and impact of a dam and levee failures.	Brazoria	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Watershed Planning	1481.87	Urban or Local	Brazoria County
06-51-0000000080	Replace the Tiki Drive bridge with improved, hardened bridge to withstand storm surge and debris.	Further study of proposed Tiki Drive bridge modifications.	Galveston	06-02-0402040200	Project Planning	1.5865	Urban or Local	City of Tiki Island
06-51-0000000082	Stream and River Flood Program	Conduct a flood mitigation outreach program using information from the river and stream flood study to increase awareness of specific riverine flooding problems and provide guidance on mitigation in affected communities.	Waller	06-02-0401020102, 06-02-0401020103, 06-02-0401020204, 06-02-0401020101, 06-02-0401020201, 06-02-0401020202, 06-02-0401020203, 06-02-0401020205, 06-02-0401020207, 06-02-0401020206, 06-02-0401040102, 06-02-0401040103, 06-02-0401040101, 06-02-0401040203	Preparedness	515.9483	Riverine, Urban or Local	Waller County
06-51-0000000083	Liberty County Drainage Projects	Further study of proposed drainage projects throughout the county-including adding ditches, detention ponds and detention basins in identified locations throughout the county in order to improve drainage.	Liberty	06-02-0401030201, 06-02-0401030108, 06-02-0401030109, 06-02-0401030205, 06-02-0401030402, 06-02-0401030203, 06-02-0401030204, 06-02-0401030202, 06-02-0401030401, 06-02-0402030104, 06-02-0402030103, 06-02-0402030102, 06-02-0402030101	Project Planning	1169.764	Urban or Local	Liberty County

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000072	City of Hillcrest Village Engineering Survey	Hillcrest Village, West Brazoria County Drainage District, Brazoria	No	300000			128	121	333	1
06-51-0000000076	Dredging Cedar Bayou	Mont Belvieu, Baytown, Chambers, Liberty County Water Control District 1	No	7070000			119	44	677	0
06-51-0000000078	Dam and Levee Failure Inundation Map Update	West Brazoria County Drainage District, Brazoria, Gulf Coast Protection District	No	2200000			18836	14338	38615	246
06-51-0000000080	Replace the Tiki Drive bridge with improved, hardened bridge to withstand storm surge and debris.	Tiki Island, Galveston	No	220000			1006	978	1681	6
06-51-0000000082	Stream and River Flood Program	Brazos River Authority, Houston, San Jacinto River Authority, Waller, Waller, Katy, Prairie View, Gulf Coast Protection District	No	20000	General Revenue (50%)	10000	1064	705	1858	6
06-51-0000000083	Liberty County Drainage Projects	Mont Belvieu, Liberty, Cleveland, Plum Grove, North Cleveland, Dayton, Liberty County Water Control District 1	No	2000000			3614	2268	3574	8

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000072	City of Hillcrest Village Engineering Survey	0	0	2.079999924	0.140000001
06-51-0000000076	Dredging Cedar Bayou	0	0	6.300000191	341.0899963
06-51-0000000078	Dam and Levee Failure Inundation Map Update	0	0	328.0700073	8584.160156
06-51-0000000080	Replace the Tiki Drive bridge with improved, hardened bridge to withstand storm surge and debris.	0	0	9.640000343	3.920000076
06-51-0000000082	Stream and River Flood Program	19	19	40.91999817	1357.319946
06-51-0000000083	Liberty County Drainage Projects	7	7	144.1699982	1379.47998

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000084	City of Bayou Vista Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Galveston	06-02-0402040200	Watershed Planning	0.447376	Urban or Local	City of Bayou Vista
06-51-0000000085	Cane Island Branch-Alt 2	Further study and FMP development of proposed channel modifications to Cane Island Branch including Atlas 14 rainfall.	Fort Bend, Harris, Waller	06-02-0401020103, 06-02-0401040102, 06-02-0401040103, 06-02-0401040104, 06-02-0401040101, 06-02-0401040203	Project Planning	14.52125	Urban or Local	Waller County
06-51-0000000086	Property Protection, Structural Project	Generate base flood elevation data for flood map revisions. Use floodplain study to identify future mitigation activities to improve water ways and flood carrying capacities. Area to include approximately 4 miles of floodway in New Waverly.	Walker	06-02-0401030101	Watershed Planning	2.213119	Urban or Local	City of New Waverly
06-51-0000000087	City of La Maque - East Side Storm water detention	Feasibility study and a drainage analysis of the new pond row acquisition and associated conveyance improvements on a part of 10 acres of land.	Galveston	06-02-0402040200	Project Planning	14.23283	Urban or Local	City of La Marque
06-51-0000000088	City of League City - Kansas Street Drainage	Further study and FMP development of proposed street drainage modifications to Kansas Street.	Galveston, Harris	06-02-0402040200, 06-02-0402040100	Project Planning	52.88821	Urban or Local	City of League City
06-51-0000000089	Update City of Friendswood Storm Surge Maps to Reflect the NWS Predictions	Study to update city storm surge maps based upon the NWS predicted storm surge and projected track for landfall. The new maps may more accurately display water depth in areas within the city.	Galveston, Harris	06-02-0402040200, 06-02-0402040100	Watershed Planning	20.82916	Coastal	City of Friendswood
06-51-0000000090	City of Bayou Vista - Storm Sewer System Evaluation	Storm sewer system evaluation to determine reconstruction/upgrade needs to increase water flow.	Galveston	06-02-0402040200	Project Planning	0.447376	Urban or Local	City of Bayou Vista
06-51-0000000091	City of Friendswood - Comprehensive Flood Mitigation Plan	Study to update city floodplain maps and develop flood mitigation plan.	Galveston, Harris	06-02-0402040200, 06-02-0402040100	Watershed Planning	20.82916	Urban or Local	City of Friendswood
06-51-0000000094	City of Sante Fe - Storm Water Detention & Widening Drainage System and Culverts Study	Study to plan for storm sewer detention and drainage system modifications.	Galveston	06-02-0402040300, 06-02-0402040200	Project Planning	17.0353	Urban or Local	City of Santa Fe
06-51-0000000096	City of Friendswood - Devils Dip	Further study and design of modifications along Mary's creek bridge and channel.	Galveston, Harris	06-02-0402040200, 06-02-0402040100	Project Planning	20.82916	Riverine	City of Friendswood
06-51-0000000097	League City - Stormwater Drainage Improvement-Interurban & Newport ditch	Further study of proposed slope paving (concrete lining) improvements.	Galveston, Harris	06-02-0402040200, 06-02-0402040100	Project Planning	52.88821	Urban or Local	City of League City

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000084	City of Bayou Vista Master Drainage Plan	Bayou Vista, Galveston	Yes	130000			1122	1095	1476	3
06-51-0000000085	Cane Island Branch-Alt 2	Waller, Fort Bend, Katy, Harris, Harris County Flood Control District	No	3270000	General Revenue (10%)	327000	650	572	1840	8
06-51-0000000086	Property Protection, Structural Project	New Waverly, Walker	No	2500000			23	18	19	0
06-51-0000000087	City of La Maque - East Side Storm water detention	La Marque, Galveston	No	360000			829	767	1455	8
06-51-0000000088	City of League City - Kansas Street Drainage	League City, Harris, Galveston	No	580000			5251	4835	13675	25
06-51-0000000089	Update City of Friendswood Storm Surge Maps to Reflect the NWS Predictions	Friendswood, Harris, Harris County Flood Control District, Galveston	No	140000			1680	1601	4640	1
06-51-0000000090	City of Bayou Vista - Storm Sewer System Evaluation	Bayou Vista, Galveston	No	130000			1122	1095	1476	3
06-51-0000000091	City of Friendswood - Comprehensive Flood Mitigation Plan	Harris, Harris County Flood Control District, Galveston	No	140000			1680	1601	4640	1
06-51-0000000094	City of Sante Fe - Storm Water Detention & Widening Drainage System and Culverts Study	Santa Fe, Galveston	No	300000			399	306	748	0
06-51-0000000096	City of Friendswood - Devils Dip	Friendswood, Harris, Harris County Flood Control District, Galveston	No	410000			1680	1601	4640	1
06-51-0000000097	League City - Stormwater Drainage Improvement-Interurban & Newport ditch	Harris, Harris County Flood Control District, Galveston	No	50000			5251	4835	13675	25

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000084	City of Bayou Vista Master Drainage Plan	0	0	7.710000038	0
06-51-0000000085	Cane Island Branch-Alt 2	5	5	10.09000015	119.0999985
06-51-0000000086	Property Protection, Structural Project	0	0	0.479999989	0.889999986
06-51-0000000087	City of La Maque - East Side Storm water detention	1	1	31.12000084	37.84999847
06-51-0000000088	City of League City - Kansas Street Drainage	2	2	104.5699997	1308.199951
06-51-0000000089	Update City of Friendswood Storm Surge Maps to Reflect the NWS Predictions	5	5	37.72999954	18.37999916
06-51-0000000090	City of Bayou Vista - Storm Sewer System Evaluation	0	0	7.710000038	0
06-51-0000000091	City of Friendswood - Comprehensive Flood Mitigation Plan	5	5	37.72999954	18.37999916
06-51-0000000094	City of Sante Fe - Storm Water Detention & Widening Drainage System and Culverts Study	9	9	4.130000114	12.13000011
06-51-0000000096	City of Friendswood - Devils Dip	5	5	37.72999954	18.37999916
06-51-0000000097	League City - Stormwater Drainage Improvement-Interurban & Newport ditch	2	2	104.5699997	1308.199951

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000098	Study of Texas City Hurricane Flood Protection Project	Corp of Engineers study of the Texas City Hurricane Flood Protection Project to improve the current levee system to provide protection from category 5 storm.	Galveston	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Project Planning	664.9483	Coastal, Urban or Local	Galveston County
06-51-0000000101	Fort Bend County - Big Creek Project	Further study of Big Creek channel improvements and wetland mitigation sites.	Fort Bend	06-02-0401040102, 06-02-0401040103, 06-02-0401040104, 06-02-0401040101, 06-02-0401040401, 06-02-0401040501, 06-02-0402040400, 06-02-0402040100	Project Planning	882.723	Riverine	Fort Bend County Drainage District
06-51-0000000102	Raise Road Surfaces in City of Plum Grove	Further evaluation of road surface elevation.	Liberty	06-02-0401030402	Project Planning	3.613092	Urban or Local	City of Plum Grove
06-51-0000000103	Highland Terrace Drainage	Further study of slope paving a portion of the drainage ditch north of FM 518, with probable wetland mitigation and lowering pavement section of Highland Terrace Drive.	Galveston, Harris	06-02-0402040200, 06-02-0402040100	Project Planning	52.88821	Urban or Local	City of League City
06-51-0000000104	Sunmeadow Drainage Improvements Phase 2	Further study of component of 1993 master Drainage Plan Phase 1. Initial phase of project completed in 2005. Upsizing storm sewer system to reduce potential flooding. Include Atlas 14 rainfalls.	Galveston	06-02-0402040100	Project Planning	0.233975	Urban or Local	City of Friendswood
06-51-0000000105	City of Friendswood - Tributary 2 Drainage/Outfall Improvements	Further study of component of 2004 TXDOT study to include Atlas 14 rainfalls.	Galveston, Harris	06-02-0402040200, 06-02-0402040100	Project Planning	20.82916	Urban or Local	City of Friendswood
06-51-0000000107	Storm water detention ponds & Widening of drainage systems feasibility study	Study of area to identify problem areas and recommend flood mitigation alternatives that consider detention ponds & widening drainage systems.	Galveston	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Project Planning	664.9483	Urban or Local	Galveston County

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000098	Study of Texas City Hurricane Flood Protection Project	Galveston	No	1590000			48545	42165	102745	667
06-51-0000000101	Fort Bend County - Big Creek Project	Fort Bend	No	200000			1539	1208	3408	11
06-51-0000000102	Raise Road Surfaces in City of Plum Grove	Plum Grove, Liberty	No	35000			362	266	484	1
06-51-0000000103	Highland Terrace Drainage	League City, Harris, Harris County Flood Control District, Galveston	No	190000			5251	4835	13675	25
06-51-0000000104	Sunmeadow Drainage Improvements Phase 2	Galveston, Galveston County Consolidated Drainage District, Gulf Coast Waste Disposal Authority, Houston-Galveston Area Council, Gulf Coast Water Authority, Gulf Coast Protection District	No	160000			0	0	0	0
06-51-0000000105	City of Friendswood - Tributary 2 Drainage/Outfall Improvements	Harris, Harris County Flood Control District, Galveston	No	170000			1680	1601	4640	1
06-51-0000000107	Storm water detention ponds & Widening of drainage systems feasibility study	League City, Kemah, Seabrook, Tiki Island, Friendswood, Texas City, Santa Fe, La Marque, Hitchcock, Bayou Vista, Galveston, Nassau Bay, Clear Lake Shores, Jamaica Beach, Dickinson	No	11000000			48545	42165	102745	667

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000098	Study of Texas City Hurricane Flood Protection Project	30	30	910.3599854	3412.030029
06-51-0000000101	Fort Bend County - Big Creek Project	6	6	17.79000092	122.1299973
06-51-0000000102	Raise Road Surfaces in City of Plum Grove	0	0	8.989999771	9.220000267
06-51-0000000103	Highland Terrace Drainage	2	2	104.5699997	1308.199951
06-51-0000000104	Sunmeadow Drainage Improvements Phase 2	0	0	0	0
06-51-0000000105	City of Friendswood - Tributary 2 Drainage/Outfall Improvements	5	5	37.72999954	18.37999916
06-51-0000000107	Storm water detention ponds & Widening of drainage systems feasibility study	30	30	910.3599854	3412.030029

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000115	Stormwater Drainage Improvement- Nottingham ditch	Further study of proposed slope paving (concrete lining) improvements. Still in planning, consultant hired. Design complete and pending construction funding.	Galveston, Harris	06-02-0402040200, 06-02-0402040100	Project Planning	52.88821	Urban or Local	City of League City
06-51-0000000116	Remedy Data Deficiency in City of New Waverly	Conduct a proper risk assessment of the dams residents suspect are causing upstream flooding, and determine all potential inundation areas.	Walker	06-02-0401030101	Watershed Planning	2.213119	Urban or Local	City of New Waverly
06-51-0000000117	City of Bayou Vista - Drainage Improvement Program	Study to develop drainage improvement program to reduce standing water and runoff, and reduce minor flooding for residents located in District No. 12.	Galveston	06-02-0402040200	Project Planning	0.451429	Urban or Local	City of Bayou Vista
06-51-0000000118	Stormwater Drainage Improvement- Bradshaw Rd	Further study of proposed slope paving (concrete lining) improvements in the Oaks of Clear Creek neighborhood. Southwest from SH 3 to the north line of CCISD's Elem. School #25. Pending Funding.	Galveston, Harris	06-02-0402040200, 06-02-0402040100	Project Planning	52.88821	Urban or Local	City of League City
06-51-0000000119	Shellside Drainage Improvements	Further study of proposed drainage improvements to Shellside.	Galveston, Harris	06-02-0402040200, 06-02-0402040100	Project Planning	52.88821	Urban or Local	City of League City
06-51-0000000120	Evaluation of Culvert Enlargement and Bridge Elevation in Grimes County	Study to identify flood-prone areas and mitigate the flooding problem by enlarging culverts under roads and bridges.	Grimes	06-02-0401010101, 06-02-0401010301, 06-02-0401010302, 06-02-0401010303, 06-02-0401010103, 06-02-0401010304, 06-02-0401010305, 06-02-0401010306, 06-02-0401020202, 06-02-0401020203, 06-02-0401020207, 06-02-0401020206	Project Planning	798.8737	Urban or Local	Grimes County
06-51-0000000121	Widen Drainage Systems and Culverts in City of Kemah	Further study to widen drainage systems and increase culvert size to accommodate increased water flows. Coordinate efforts with water district.	Galveston, Chambers	06-02-0402040200, 06-02-0402040100	Project Planning	1.907838	Urban or Local	City of Kemah
06-51-0000000122	Widen Drainage Systems and Culverts in City of Clear Lake Shores	Further study to widen drainage systems and increase culvert size to accommodate increased water flows. Coordinate efforts with water district.	Galveston, Harris	06-02-0402040100	Project Planning	0.710432	Urban or Local	City of Clear Lake Shores
06-51-0000000123	FM518 Drainage Improvements- Phase 2	Further study of component of 2007 Master Drainage Plan to include Atlas 14 rainfall.	Galveston, Harris	06-02-0402040200, 06-02-0402040100	Project Planning	20.82916	Urban or Local	City of Friendswood
06-51-0000000124	Replace Existing Culverts in City of Arcola	Evaluation of proposed culvert replacement.	Fort Bend	06-02-0402040400	Project Planning	2.598059	Urban or Local	City of Arcola

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000115	Stormwater Drainage Improvement- Nottingham ditch	League City, Harris, Harris County Flood Control District, Galveston	No	50000			5251	4835	13675	25
06-51-0000000116	Remedy Data Deficiency in City of New Waverly	New Waverly, Walker	No	100000			23	18	19	0
06-51-0000000117	City of Bayou Vista - Drainage Improvement Program	Bayou Vista, Galveston	No	100000			1123	1095	1477	3
06-51-0000000118	Stormwater Drainage Improvement- Bradshaw Rd	Harris, Harris County Flood Control District, Galveston	No	50000			5251	4835	13675	25
06-51-0000000119	Shellside Drainage Improvements	Harris, Harris County Flood Control District, Galveston	No	580000			204	192	802	0
06-51-0000000120	Evaluation of Culvert Enlargement and Bridge Elevation in Grimes County	Grimes, Todd Mission, Plantersville	No	750000			144	75	95	0
06-51-0000000121	Widen Drainage Systems and Culverts in City of Kemah	Kemah, Chambers, Galveston	No	100000			562	425	2792	7
06-51-0000000122	Widen Drainage Systems and Culverts in City of Clear Lake Shores	Clear Lake Shores, Galveston	No	100000			633	529	2597	4
06-51-0000000123	FM518 Drainage Improvements- Phase 2	Harris, Harris County Flood Control District, Galveston	No	410000			1680	1601	4640	1
06-51-0000000124	Replace Existing Culverts in City of Arcola	Fort Bend, Arcola	No	200000			41	37	39	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000115	Stormwater Drainage Improvement- Nottingham ditch	2	2	104.5699997	1308.199951
06-51-0000000116	Remedy Data Deficiency in City of New Waverly	0	0	0.479999989	0.889999986
06-51-0000000117	City of Bayou Vista - Drainage Improvement Program	0	0	7.46999979	0
06-51-0000000118	Stormwater Drainage Improvement- Bradshaw Rd	2	2	104.5699997	1308.199951
06-51-0000000119	Shellside Drainage Improvements	0	0	2.50999999	1.460000038
06-51-0000000120	Evaluation of Culvert Enlargement and Bridge Elevation in Grimes County	1	1	10.81000042	151.2799988
06-51-0000000121	Widen Drainage Systems and Culverts in City of Kemah	0	0	12.01000023	0.730000019
06-51-0000000122	Widen Drainage Systems and Culverts in City of Clear Lake Shores	0	0	8.829999924	0
06-51-0000000123	FM518 Drainage Improvements- Phase 2	5	5	37.72999954	18.37999916
06-51-0000000124	Replace Existing Culverts in City of Arcola	0	0	0.219999999	1.230000019

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000125	Update Liberty County Floodplain Maps	Study by participating jurisdictions to update floodway maps throughout the county, including Atlas 14 rainfalls.	Chambers, Harris, Liberty, Montgomery, San Jacinto	06-02-0401030108, 06-02-0401030109, 06-02-0401030201, 06-02-0401030202, 06-02-0401030203, 06-02-0401030204, 06-02-0401030205, 06-02-0401030401, 06-02-0401030402, 06-02-0402030101, 06-02-0402030102, 06-02-0402030103, 06-02-0402030104	Watershed Planning	1169.764	Riverine	Liberty County
06-51-0000000129	Waller County Flood Damage Prevention Planning	Establish watershed-based planning and studies to address flood hazards with neighboring and constituent communities.	Waller	06-02-0401020102, 06-02-0401020103, 06-02-0401020204, 06-02-0401020101, 06-02-0401020201, 06-02-0401020202, 06-02-0401020203, 06-02-0401020205, 06-02-0401020207, 06-02-0401020206, 06-02-0401040102, 06-02-0401040103, 06-02-0401040101, 06-02-0401040203	Watershed Planning	515.9483	Urban or Local	Waller County
06-51-0000000130	Hostetter and Gourd Creek Bridges Elevation Evaluation	Further study to elevate and install culverts on Hostetter and Gourd Creek roadways to prevent flooding and/or flood damage on roadway.	Montgomery, San Jacinto, Walker	06-02-0401010202, 06-02-0401010204, 06-02-0401030101, 06-02-0401030301, 06-02-0401030302	Project Planning	76.33473	Urban or Local	Walker County
06-51-0000000131	Implementation Study of Storm Sewer System Re-engineering in City of Kemah	Study of storm sewer system re-engineering and follow-up construction project to mitigate flood related impacts.	Galveston, Chambers	06-02-0402040200, 06-02-0402040100	Watershed Planning	1.907838	Urban or Local	City of Kemah
06-51-0000000134	Corp of Engineers study of the Galveston County Water Reservoir Dam and Levee system	Review findings of potential breach to dam/levee system and develop/implement mitigation actions as applicable.	Galveston	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Project Planning	664.9483	Urban or Local	Galveston County

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000125	Update Liberty County Floodplain Maps	Mont Belvieu, Liberty, Cleveland, Plum Grove, North Cleveland, Dayton, Gulf Coast Protection District, Liberty County Water Control District 1	No	1243000			3614	2268	3574	8
06-51-0000000129	Waller County Flood Damage Prevention Planning	Houston, Waller, Prairie View, Katy, Waller	No	1160000	General Revenue (25%)	290000	1064	705	1858	6
06-51-0000000130	Hostetter and Gourd Creek Bridges Elevation Evaluation	New Waverly, Walker, Willis	No	130000			1168	1022	1882	0
06-51-0000000131	Implementation Study of Storm Sewer System Re-engineering in City of Kemah	Kemah, Chambers, Galveston	No	190000			562	425	2792	7
06-51-0000000134	Corp of Engineers study of the Galveston County Water Reservoir Dam and Levee system	Galveston	No	1590000			48545	42165	102745	667

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000125	Update Liberty County Floodplain Maps	7	7	144.1699982	1379.47998
06-51-0000000129	Waller County Flood Damage Prevention Planning	19	19	40.91999817	1357.319946
06-51-0000000130	Hostetter and Gourd Creek Bridges Elevation Evaluation	2	2	10.22999954	25.45999908
06-51-0000000131	Implementation Study of Storm Sewer System Re-engineering in City of Kemah	0	0	12.01000023	0.730000019
06-51-0000000134	Corp of Engineers study of the Galveston County Water Reservoir Dam and Levee system	30	30	910.3599854	3412.030029

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000135	Recanalization Feasibility Study	Dechannelize existing feeder creeks that flow from north to south and improve drainage for storm water runoff.	Liberty	06-02-0401030201, 06-02-0401030108, 06-02-0401030109, 06-02-0401030205, 06-02-0401030402, 06-02-0401030203, 06-02-0401030204, 06-02-0401030202, 06-02-0401030401, 06-02-0402030104, 06-02-0402030103, 06-02-0402030102, 06-02-0402030101	Project Planning	1169.764	Riverine, Urban or Local	Liberty County
06-51-0000000136	Corp of Engineers study of the Galveston County Water Reservoir Dam and Levee system	Review findings of potential breach to dam/levee system and develop/implement mitigation actions as applicable.	Liberty	06-02-0401030201, 06-02-0401030401	Project Planning	1.908586	Urban or Local	Galveston County
06-51-0000000137	Corp of Engineers study of the Galveston County Water Reservoir Dam and Levee system	Review findings of potential breach to dam/levee system and develop/implement mitigation actions as applicable.	Galveston, Harris	06-02-0402040100	Project Planning	0.710432	Urban or Local	City of Clear Lake Shores
06-51-0000000138	Corp of Engineers study of the Galveston County Water Reservoir Dam and Levee system	Review findings of potential breach to dam/levee system and develop/implement mitigation actions as applicable.	Galveston	06-02-0402040200	Project Planning	14.23283	Urban or Local	City of La Marque
06-51-0000000139	City of Arcola Regional Drainage Improvements	Study of repetitive loss and possible drainage improvements.	Fort Bend	06-02-0402040400	Project Planning	2.598059	Urban or Local	City of Arcola
06-51-0000000140	Elevate Existing Bridge - East Fork San Jacinto River	Evaluate, Design and construct new bridge over east fork San Jacinto river on low water bridge road to reduce flooding.	Liberty	06-02-0401030201, 06-02-0401030401	Project Planning	1.908586	Riverine	City of North Cleveland
06-51-0000000141	Southwood Forest Subdivision and Forgotten Forest Subdivision Evaluation	Study to develop a community-wide drainage system in Southwood Forest Subdivision and Forgotten Forest Subdivision.	Walker	06-02-0401010202	Project Planning	0.285872	Urban or Local	Walker County
06-51-0000000142	Shadowbend Drainage Improvements Phase 2	Further study of component of 1993 master Drainage Plan Phase 1 to include Atlas 14 rainfall.	Galveston, Harris	06-02-0402040200, 06-02-0402040100	Project Planning	20.82916	Urban or Local	City of Friendswood

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000135	Recanalization Feasibility Study	Trinity River Authority of Texas, Liberty, San Jacinto River Authority, Gulf Coast Protection District, Liberty County Water Control District 1	No	486000			3614	2268	3574	8
06-51-0000000136	Corp of Engineers study of the Galveston County Water Reservoir Dam and Levee system	Kemah, Galveston	No	190000			52	37	42	0
06-51-0000000137	Corp of Engineers study of the Galveston County Water Reservoir Dam and Levee system	Clear Lake Shores, Galveston	No	140000			633	529	2597	4
06-51-0000000138	Corp of Engineers study of the Galveston County Water Reservoir Dam and Levee system	La Marque, Galveston	No	360000			829	767	1455	8
06-51-0000000139	City of Arcola Regional Drainage Improvements	Fort Bend, Arcola	No	520000			41	37	39	0
06-51-0000000140	Elevate Existing Bridge - East Fork San Jacinto River	North Cleveland, Liberty	No	1000000			52	37	42	0
06-51-0000000141	Southwood Forest Subdivision and Forgotten Forest Subdivision Evaluation	Walker	No	110000			13	13	5	0
06-51-0000000142	Shadowbend Drainage Improvements Phase 2	Friendswood, Harris, Harris County Flood Control District, Galveston	No	950000	Entity/ Budget Funds		1680	1601	4640	1

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000135	Recanalization Feasibility Study	7	7	144.1699982	1379.47998
06-51-0000000136	Corp of Engineers study of the Galveston County Water Reservoir Dam and Levee system	0	0	3.309999943	6.179999828
06-51-0000000137	Corp of Engineers study of the Galveston County Water Reservoir Dam and Levee system	0	0	8.829999924	0
06-51-0000000138	Corp of Engineers study of the Galveston County Water Reservoir Dam and Levee system	1	1	31.12000084	37.84999847
06-51-0000000139	City of Arcola Regional Drainage Improvements	0	0	0.219999999	1.230000019
06-51-0000000140	Elevate Existing Bridge - East Fork San Jacinto River	0	0	3.309999943	6.179999828
06-51-0000000141	Southwood Forest Subdivision and Forgotten Forest Subdivision Evaluation	0	0	0	0
06-51-0000000142	Shadowbend Drainage Improvements Phase 2	5	5	37.72999954	18.37999916

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000143	City of Todd Mission Reduction of Floodplain Area Roads and Drainage Upgrade	Analysis of potential upgrades to be made to floodplain-area roads and drainage to reduce flood risk.	Grimes	06-02-0401020203, 06-02-0401020206	Project Planning	2.004335	Urban or Local	City of Todd Mission
06-51-0000000145	Jamica Cove Rd. Survey	Engineering assessment needed to determine if elevating the road would reduce future flooding impacts.	Galveston	06-02-0402040300	Project Planning	0.714847	Urban or Local	City of Jamaica Beach
06-51-0000000146	Annalea/Whitehall Kings Park Drainage - Drainage Improvements Phase 2	Further study of proposed drainage improvements to Stafford oaks.	Galveston, Harris	06-02-0402040200, 06-02-0402040100	Project Planning	20.82916	Urban or Local	City of Friendswood
06-51-0000000147	Implement Drainage Improvements in City of La Marque	Implement drainage projects that support low maintenance and cleaning of drainage ditches.	Galveston	06-02-0402040200	Project Planning	14.23283	Urban or Local	City of La Marque
06-51-0000000148	Liberty County Culvert Replacement Project	Increase culvert size in identified flood hazard problem areas within Liberty County.	Liberty	06-02-0401030201, 06-02-0401030108, 06-02-0401030109, 06-02-0401030205, 06-02-0401030402, 06-02-0401030203, 06-02-0401030402, 06-02-0401030203, 06-02-0401030204, 06-02-0401030202, 06-02-0401030401, 06-02-0402030104, 06-02-0402030103, 06-02-0402030102, 06-02-0402030101	Project Planning	1169.764	Urban or Local	Liberty
06-51-0000000149	Evaluating of Increase Height of Existing Levee Wall System in City of La Marque	Increase height of existing Levee wall system to withstand a Category 5 storm surge.	Galveston	06-02-0402040200	Project Planning	14.23283	Urban or Local	City of La Marque
06-51-0000000150	Evaluation of Reinforcement of Critical Facilities in the City of Arcola	Reinforcement of critical facilities to withstand high winds from severe weather.	Fort Bend	06-02-0402040400	Project Planning	2.598059	Urban or Local	City of Arcola

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000143	City of Todd Mission Reduction of Floodplain Area Roads and Drainage Upgrade	Grimes, Todd Mission	No	220000			17	11	16	0
06-51-0000000145	Jamica Cove Rd. Survey	Jamaica Beach, Galveston	No	140000			1276	1238	275	4
06-51-0000000146	Annalea/Whitehall Kings Park Drainage - Drainage Improvements Phase 2	Harris, Harris County Flood Control District, Galveston	No	50000			1680	1601	4640	1
06-51-0000000147	Implement Drainage Improvements in City of La Marque	La Marque, Galveston	No	360000			829	767	1455	8
06-51-0000000148	Liberty County Culvert Replacement Project	Mont Belvieu, Liberty, Cleveland, Plum Grove, North Cleveland, Dayton, Liberty County Water Control District 1	No	30000			3614	2268	3574	8
06-51-0000000149	Evaluating of Increase Height of Existing Levee Wall System in City of La Marque	La Marque, Galveston	No	810000			829	767	1455	8
06-51-0000000150	Evaluation of Reinforcement of Critical Facilities in the City of Arcola	Fort Bend, Arcola	No	200000			41	37	39	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000143	City of Todd Mission Reduction of Floodplain Area Roads and Drainage Upgrade	0	0	0	1.120000005
06-51-0000000145	Jamica Cove Rd. Survey	0	0	13.81000042	2.829999924
06-51-0000000146	Annalea/Whitehall Kings Park Drainage - Drainage Improvements Phase 2	5	5	37.72999954	18.37999916
06-51-0000000147	Implement Drainage Improvements in City of La Marque	1	1	31.12000084	37.84999847
06-51-0000000148	Liberty County Culvert Replacement Project	7	7	144.1699982	1379.47998
06-51-0000000149	Evaluating of Increase Height of Existing Levee Wall System in City of La Marque	1	1	31.12000084	37.84999847
06-51-0000000150	Evaluation of Reinforcement of Critical Facilities in the City of Arcola	0	0	0.219999999	1.230000019

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000151	Evaluation of Mitigation Alternatives for Repetitive Flood Claims Properties in Galveston County	Evaluate Mitigation Alternatives of Repetitive Flood Claim Properties in Galveston County.	Galveston	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Project Planning	664.9483	Urban or Local	Galveston County
06-51-0000000152	Cane Island Branch-Alt 1	Further study of 2,800 ac-ft detention upstream of Pitts road.	Fort Bend, Harris, Waller	06-02-0401020103, 06-02-0401040102, 06-02-0401040103, 06-02-0401040104, 06-02-0401040101, 06-02-0401040203	Project Planning	14.52125	Urban or Local	Waller County
06-51-0000000153	Downtown Cleveland Drainage Line Installation	Further study of proposed larger drainage lines in downtown Cleveland to reduce flooding.	Liberty, Montgomery, San Jacinto	06-02-0401030201, 06-02-0401030108, 06-02-0401030109, 06-02-0401030203, 06-02-0401030202, 06-02-0401030401	Project Planning	18.73655	Urban or Local	City of Cleveland
06-51-0000000156	Flood Gates Evaluation at Walker County Annex #2	Evaluation of proposed removable facility flood gates at Walker County Annex #2	Walker	06-02-0401010104, 06-02-0401010101, 06-02-0401010102, 06-02-0401010103, 06-02-0401010201, 06-02-0401010202, 06-02-0401010203, 06-02-0401010204, 06-02-0401030101, 06-02-0401030106, 06-02-0401030303, 06-02-0401030305, 06-02-0401030301, 06-02-0401030302	Project Planning	797.8365	Urban or Local	Walker County
06-51-0000000158	City of Bayou Vista Canal Dredging Study	Plan for Canal Dredging to reduce sediment deposited during storm events. Study to develop and implement canal dredging program.	Galveston	06-02-0402040200	Project Planning	0.447376	Urban or Local	City of Bayou Vista

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000151	Evaluation of Mitigation Alternatives for Repetitive Flood Claims Properties in Galveston County	League City, Kemah, Seabrook, Tiki Island, Friendswood, Texas City, Santa Fe, Galveston, Nassau Bay, Hitchcock, La Marque, Bayou Vista, Galveston, Clear Lake Shores, Jamaica Beach, Dickinson	No	11000000			48545	42165	102745	667
06-51-0000000152	Cane Island Branch-Alt 1	Waller, Harris County Flood Control District, Katy	No	180000	General Revenue (25%)	45000	650	572	1840	8
06-51-0000000153	Downtown Cleveland Drainage Line Installation	Liberty, Cleveland, Montgomery, San Jacinto	No	50000			260	132	1037	0
06-51-0000000156	Flood Gates Evaluation at Walker County Annex #2	Huntsville, New Waverly, Walker	No	20000			505	437	545	0
06-51-0000000158	City of Bayou Vista Canal Dredging Study	Bayou Vista, Galveston	No	130000			1122	1095	1476	3

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000151	Evaluation of Mitigation Alternatives for Repetitive Flood Claims Properties in Galveston County	30	30	910.3599854	3412.030029
06-51-0000000152	Cane Island Branch-Alt 1	5	5	10.09000015	119.0999985
06-51-0000000153	Downtown Cleveland Drainage Line Installation	1	1	27.32999992	28.87999916
06-51-0000000156	Flood Gates Evaluation at Walker County Annex #2	2	2	25.43000031	180.4700012
06-51-0000000158	City of Bayou Vista Canal Dredging Study	0	0	7.710000038	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000160	Liberty County Regional Flood Drainage Plan	Regional drainage study to establish a county wide drainage plan including atlas 14 rainfall.	Liberty	06-02-0401030201, 06-02-0401030108, 06-02-0401030109, 06-02-0401030205, 06-02-0401030402, 06-02-0401030203, 06-02-0401030204, 06-02-0401030202, 06-02-0401030401, 06-02-0402030104, 06-02-0402030103, 06-02-0402030102, 06-02-0402030101	Project Planning	1169.764	Urban or Local	Liberty County
06-51-0000000161	City of North Cleveland Engineering Study	Study to identify drainage improvements in the City of North Cleveland.	Liberty, Montgomery, San Jacinto	06-02-0401030201, 06-02-0401030401	Project Planning	18.73655	Urban or Local	City of North Cleveland
06-51-0000000162	Elevation of Bridge Road in City of North Cleveland	Further study to elevate Bridge road.	Liberty, Montgomery, San Jacinto	06-02-0401030201, 06-02-0401030401	Project Planning	18.73655	Urban or Local	City of North Cleveland
06-51-0000000163	Galveston County Drainage System Improvement Study	Further study to widen drainage systems and increase culvert size to accommodate increased water flows. Coordinate efforts with water district.	Galveston	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Project Planning	664.9483	Urban or Local	Galveston County
06-51-0000000164	Storm Water Detention Ponds Evaluation in the City of Santa Fe	Further study to determine detention ponds/basin could be solution for addressing flood impacts.	Galveston	06-02-0402040300, 06-02-0402040200	Project Planning	17.0353	Urban or Local	City of Santa Fe
06-51-0000000165	Drainage System Analysis for City of Santa Fe	Further study to widen drainage systems and increase culvert size to accommodate increased water flows. Coordinate efforts with water district.	Galveston	06-02-0402040300, 06-02-0402040200	Project Planning	17.0353	Urban or Local	City of Santa Fe
06-51-0000000166	City of Stafford Run Creek Detention Pond Construction	Further study of proposed detention ponds immediately downstream of Brand Lane and Independence Park.	Fort Bend, Harris	06-02-0401040401, 06-02-0401040501, 06-02-0402040400	Project Planning	7.020157	Riverine, Urban or Local	City of Stafford
06-51-0000000167	City of Cleveland Drainage Improvements	Further study of proposed city of Cleveland drainage improvements.	Liberty, Montgomery, San Jacinto	06-02-0401030201, 06-02-0401030108, 06-02-0401030109, 06-02-0401030203, 06-02-0401030202, 06-02-0401030401	Project Planning	18.73655	Riverine	City of Cleveland
06-51-0000000168	San Jacinto Watershed and Tributary Barrier and Flood Mitigation - East County Project	Planning, H&H studies, design, environmental review, and barrier removal for the 98.6 miles of the San Jacinto Watershed and Tributary Barrier and Flood Mitigation-East County project area.	Harris, Liberty, Montgomery, San Jacinto	06-02-0401030402, 06-02-0401030401	Watershed Planning	94.88887	Riverine, Urban or Local	Montgomery County

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000160	Liberty County Regional Flood Drainage Plan	Mont Belvieu, Liberty, Cleveland, Plum Grove, North Cleveland, Dayton, Liberty County Water Control District 1	No	486000			3614	2268	3574	8
06-51-0000000161	City of North Cleveland Engineering Study	Liberty, Cleveland, Montgomery, San Jacinto	No	400000			52	37	42	0
06-51-0000000162	Elevation of Bridge Road in City of North Cleveland	Liberty, Cleveland, Montgomery, San Jacinto	No	120000			52	37	42	0
06-51-0000000163	Galveston County Drainage System Improvement Study	Galveston	No	1590000			48545	42165	102745	667
06-51-0000000164	Storm Water Detention Ponds Evaluation in the City of Santa Fe	Santa Fe, Galveston	No	380000			399	306	748	0
06-51-0000000165	Drainage System Analysis for City of Santa Fe	Santa Fe, Galveston	No	300000			399	306	748	0
06-51-0000000166	City of Stafford Run Creek Detention Pond Construction	Stafford, Fort Bend, Harris County Flood Control District, Harris	No	300000			0	0	0	0
06-51-0000000167	City of Cleveland Drainage Improvements	Liberty, Cleveland, Montgomery, San Jacinto	No	410000			260	132	1037	0
06-51-0000000168	San Jacinto Watershed and Tributary Barrier and Flood Mitigation - East County Project	Houston, Liberty, Montgomery, Harris, Harris County Flood Control District	No	1160000			3496	2368	3786	3

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000160	Liberty County Regional Flood Drainage Plan	7	7	144.1699982	1379.47998
06-51-0000000161	City of North Cleveland Engineering Study	0	0	3.309999943	6.179999828
06-51-0000000162	Elevation of Bridge Road in City of North Cleveland	0	0	3.309999943	6.179999828
06-51-0000000163	Galveston County Drainage System Improvement Study	30	30	910.3599854	3412.030029
06-51-0000000164	Storm Water Detention Ponds Evaluation in the City of Santa Fe	9	9	4.130000114	12.13000011
06-51-0000000165	Drainage System Analysis for City of Santa Fe	9	9	4.130000114	12.13000011
06-51-0000000166	City of Stafford Run Creek Detention Pond Construction	0	0	0	0
06-51-0000000167	City of Cleveland Drainage Improvements	1	1	27.32999992	28.87999916
06-51-0000000168	San Jacinto Watershed and Tributary Barrier and Flood Mitigation - East County Project	1	1	101.8000031	70.63999939

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000169	San Jacinto Watershed and Tributary Barrier and Flood Mitigation - West County Project	H&H study, design, tributary barrier removal, and environmental assessments for the 96.2 miles of the San Jacinto Watershed and Tributary Barrier and Flood Mitigation-West County project area.	Harris, Montgomery	06-02-0401010401, 06-02-0401010402, 06-02-0401010404	Watershed Planning	122.1236	Riverine, Urban or Local	Montgomery County
06-51-0000000170	Spring Gully Watershed Planning Project Near-term Planning Project: PA03	Planning-level study needed: to identify a strategy in O200-00-00 near O207-01-00 to reduce flooding	Harris	06-02-0401040705, 06-02-0401040706, 06-02-0401040704, 06-02-0402030105, 06-02-0402030104, 06-02-0402030106	Watershed Planning	34.83194	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000171	Spring Gully Watershed Planning Project Near-term Planning Project: PA04	Planning-level study needed: to lower WSEL in O203-00-00 to around 29 feet MSL. Most benefit when O203-00-00 channel modifications are combined with Thompson Road Storm drainage system improvements	Harris	06-02-0401040705, 06-02-0401040706, 06-02-0401040704, 06-02-0402030105, 06-02-0402030104, 06-02-0402030106	Watershed Planning	34.83194	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000172	Spring Gully Watershed Planning Project Near-term Planning Project: PA05	Planning-level study needed: a stormwater detention basin near confluence of O207-00-00 and O207-01-00 required to lower WSEL	Harris	06-02-0401040705, 06-02-0401040706, 06-02-0401040704, 06-02-0402030105, 06-02-0402030104, 06-02-0402030106	Project Planning	34.83194	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000173	Update Liberty County FIRMs to Include Bench Marks	Add bench marks to updated Flood Insurance Rate Maps.	Liberty	06-02-0401030201, 06-02-0401030108, 06-02-0401030109, 06-02-0401030205, 06-02-0401030402, 06-02-0401030203, 06-02-0401030204, 06-02-0401030202, 06-02-0401030401, 06-02-0402030104, 06-02-0402030103, 06-02-0402030102, 06-02-0402030101	Watershed Planning	1169.764	Urban or Local	Liberty County
06-51-0000000174	Carpenters Planning Study N110-00-00 Diversion to P103-00/P103-03	Feasibility study needed to evaluate a proposed interconnection from N110-00-00 to lower Greens Bayou	Harris	06-02-0401010502, 06-02-0401040605, 06-02-0401040703, 06-02-0401040705, 06-02-0401040702, 06-02-0401040606, 06-02-0401040704	Project Planning	31.0257	Riverine	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000169	San Jacinto Watershed and Tributary Barrier and Flood Mitigation - West County Project	Houston, Harris County Flood Control District, Harris, Montgomery	No	1110000			3628	2858	9188	31
06-51-0000000170	Spring Gully Watershed Planning Project Near-term Planning Project: PA03	Baytown, Harris County Flood Control District, Harris	Yes	600000			1882	1508	5995	64
06-51-0000000171	Spring Gully Watershed Planning Project Near-term Planning Project: PA04	Baytown, Harris County Flood Control District, Harris	Yes	210000			1882	1508	5995	64
06-51-0000000172	Spring Gully Watershed Planning Project Near-term Planning Project: PA05	Baytown, Harris County Flood Control District, Harris	Yes	250000			1882	1508	5995	64
06-51-0000000173	Update Liberty County FIRMs to Include Bench Marks	Dayton, Liberty, Liberty County Water Control District 1	No	50000			3614	2268	3574	8
06-51-0000000174	Carpenters Planning Study N110-00-00 Diversion to P103-00/P103-03	Houston, Harris County Flood Control District, Harris	Yes	1200000			812	489	2731	24

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000169	San Jacinto Watershed and Tributary Barrier and Flood Mitigation - West County Project	8	8	89.20999908	278.8900146
06-51-0000000170	Spring Gully Watershed Planning Project Near-term Planning Project: PA03	1	1	32.83000183	73.12999725
06-51-0000000171	Spring Gully Watershed Planning Project Near-term Planning Project: PA04	1	1	32.83000183	73.12999725
06-51-0000000172	Spring Gully Watershed Planning Project Near-term Planning Project: PA05	1	1	32.83000183	73.12999725
06-51-0000000173	Update Liberty County FIRMs to Include Bench Marks	7	7	144.1699982	1379.47998
06-51-0000000174	Carpenters Planning Study N110-00-00 Diversion to P103-00/P103-03	2	2	18.82999992	96.26999664

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000175	Solutions for Advancing Flood Mitigation, Equity, and Resilience	Feasibility study to identify regional flood management projects for broad-scale flood mitigation and potential Federal cost-sharing. The study will also explore beneficial uses beyond flood mitigation, such as water supply.	Harris	06-02-0401010502, 06-02-0401040605, 06-02-0401040703, 06-02-0401040705, 06-02-0401040702, 06-02-0401040606, 06-02-0401040704	Project Planning	1770.816	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000176	Lower Greens Bayou Watershed Study	Feasibility study to ID flood damage reduction measures to reduce the risk of flooding in the lower stretch of Greens Bayou	Harris	06-02-0401010502, 06-02-0401010501, 06-02-0401020106, 06-02-0401020107, 06-02-0401040605, 06-02-0401040703, 06-02-0401040601, 06-02-0401040702, 06-02-0401040302, 06-02-0401040604, 06-02-0401040606, 06-02-0401040304, 06-02-0401040301, 06-02-0401040602, 06-02-0401040603	Project Planning	26.65281	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000177	Addicks Reservoir Watershed Study	Watershed-wide study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and BCAs for each project	Harris, Waller	06-02-0401020103, 06-02-0401040102, 06-02-0401040202, 06-02-0401040104, 06-02-0401040201, 06-02-0401040302, 06-02-0401040101, 06-02-0401040203, 06-02-0401040303, 06-02-0401040301	Watershed Planning	137.9631	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000178	Barker Reservoir Watershed Study	Watershed-wide study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and BCAs for each project	Fort Bend, Harris, Waller	06-02-0401020103, 06-02-0401040102, 06-02-0401040103, 06-02-0401040104, 06-02-0401040101, 06-02-0401040203, 06-02-0401040303, 06-02-0401040401	Watershed Planning	128.1584	Riverine	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000175	Solutions for Advancing Flood Mitigation, Equity, and Resilience	Houston, Harris County Flood Control District, Harris, Liberty County Water Control District 1	Yes	30000000			143547	120726	590942	2132
06-51-0000000176	Lower Greens Bayou Watershed Study	Houston, Humble, Harris County Flood Control District, Harris	Yes	1000000			5926	5090	16913	58
06-51-0000000177	Addicks Reservoir Watershed Study	Houston, San Jacinto River Authority, Waller, Katy, Harris, Harris County Flood Control District	Yes	670000			3746	3076	8182	52
06-51-0000000178	Barker Reservoir Watershed Study	Brazos River Authority, Houston, San Jacinto River Authority, Waller, Fort Bend, Fulshear, Katy, Harris, Harris County Flood Control District	Yes	620000			1051	833	2598	11

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000175	Solutions for Advancing Flood Mitigation, Equity, and Resilience	89	89	2407.73999	5993.470215
06-51-0000000176	Lower Greens Bayou Watershed Study	3	3	68.04000092	2.359999895
06-51-0000000177	Addicks Reservoir Watershed Study	0	0	114.0999985	1607.180054
06-51-0000000178	Barker Reservoir Watershed Study	5	5	34.06000137	753.0100098

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000179	Buffalo Bayou Watershed Study	Watershed-wide study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and BCAs for each project	Fort Bend, Harris	06-02-0401040703, 06-02-0401040402, 06-02-0401040104, 06-02-0401040305, 06-02-0401040302, 06-02-0401040203, 06-02-0401040303, 06-02-0401040304, 06-02-0401040401, 06-02-0401040701	Watershed Planning	101.5083	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000180	Brays Bayou Watershed Study	Watershed-wide study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and BCAs for each project	Fort Bend, Harris	06-02-0401040703, 06-02-0401040402, 06-02-0401040305, 06-02-0401040303, 06-02-0401040401, 06-02-0401040502	Watershed Planning	128.2067	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000181	Cypress Creek Watershed Study	Watershed-wide study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and BCAs for each project	Harris, Waller	06-02-0401020102, 06-02-0401020103, 06-02-0401020104, 06-02-0401020106, 06-02-0401020101, 06-02-0401020105, 06-02-0401020107, 06-02-0401020201, 06-02-0401020210, 06-02-0401020212, 06-02-0401020213, 06-02-0401040601, 06-02-0401040102, 06-02-0401040201, 06-02-0401040101	Watershed Planning	266.2121	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000182	Hunting Bayou Watershed Study	Watershed-wide study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and BCAs for each project	Harris	06-02-0401040703, 06-02-0401040604, 06-02-0401040606, 06-02-0401040304, 06-02-0401040701	Watershed Planning	30.87229	Riverine	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000179	Buffalo Bayou Watershed Study	Houston, Hilshire Village, San Jacinto River Authority, Spring Valley Village, Fort Bend, Bunker Hill Village, Hedwig Village, Harris, Harris County Flood Control District, Piney Point Village	Yes	500000			1998	1532	36738	34
06-51-0000000180	Brays Bayou Watershed Study	Houston, Southside Place, San Jacinto River Authority, Meadows Place, Fort Bend, Missouri City, Stafford, West University Place, Harris, Bellaire, Sugar Land, Harris County Flood Control District	Yes	620000			40914	37611	216118	545
06-51-0000000181	Cypress Creek Watershed Study	Brazos River Authority, Houston, San Jacinto River Authority, Waller, Prairie View, Harris, Tomball, Harris County Flood Control District	Yes	1230000			4159	3208	13877	87
06-51-0000000182	Hunting Bayou Watershed Study	Houston, Jacinto City, Galena Park, Harris, Harris County Flood Control District	Yes	500000			6241	5217	24003	93

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000179	Buffalo Bayou Watershed Study	0	0	38.72000122	17.89999962
06-51-0000000180	Brays Bayou Watershed Study	2	2	537.1400146	45.18999863
06-51-0000000181	Cypress Creek Watershed Study	18	18	109.4800034	1659.599976
06-51-0000000182	Hunting Bayou Watershed Study	6	6	101.5199966	21.13999939

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000183	Sims Bayou Watershed Study	Watershed-wide study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and BCAs for each project	Fort Bend, Harris	06-02-0401040703, 06-02-0401040402, 06-02-0401040502, 06-02-0401040501, 06-02-0402040400, 06-02-0402040100	Watershed Planning	93.21497	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000184	White Oak Bayou Watershed Study	Watershed-wide study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and BCAs for each project	Harris	06-02-0401020104, 06-02-0401020106, 06-02-0401040601, 06-02-0401040305, 06-02-0401040302, 06-02-0401040604, 06-02-0401040303, 06-02-0401040304, 06-02-0401040301, 06-02-0401040701	Watershed Planning	110.7023	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000185	Upper Greens Bayou Watershed Study	Watershed-wide study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and BCAs for each project	Harris	06-02-0401010502, 06-02-0401010501, 06-02-0401020106, 06-02-0401020107, 06-02-0401040605, 06-02-0401040703, 06-02-0401040601, 06-02-0401040702, 06-02-0401040302, 06-02-0401040604, 06-02-0401040606, 06-02-0401040304, 06-02-0401040301, 06-02-0401040602, 06-02-0401040603	Watershed Planning	201.4798	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000186	Brays Bayou - Poor Farm Ditch	Study to develop a BCR and elevate project to a FMP. Further study of channel improvements from partnership project to restore channel conveyance, evaluated including Atlas 14 rainfall	Harris	06-02-0401040402	Project Planning	3.341123	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000187	Brays Bayou Restore Channel Conveyance Capacity Along D115-00-00	Further study of channel modifications from partnership project to restore channel conveyance, evaluated using Atlas 14 rainfall.	Harris	06-02-0401040401	Project Planning	6.317276	Riverine	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000183	Sims Bayou Watershed Study	Houston, San Jacinto River Authority, Pasadena, Fort Bend, Missouri City, Stafford, Brazos Bend Water Authority, Harris, South Houston, Harris County Flood Control District	Yes	470000			5854	4880	22203	73
06-51-0000000184	White Oak Bayou Watershed Study	Houston, Harris County Flood Control District, Harris, Jersey Village	Yes	800000			17090	14693	85064	145
06-51-0000000185	Upper Greens Bayou Watershed Study	Houston, Humble, Harris County Flood Control District, Harris	Yes	980000			24220	18980	94337	287
06-51-0000000186	Brays Bayou - Poor Farm Ditch	Houston, Southside Place, West University Place, Harris, Harris County Flood Control District	Yes	690000			3291	3092	15766	33
06-51-0000000187	Brays Bayou Restore Channel Conveyance Capacity Along D115-00-00	Houston, Bellaire, Harris County Flood Control District, Harris	Yes	1020000			5574	5250	22839	71

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000183	Sims Bayou Watershed Study	10	10	102.9800034	50.52000046
06-51-0000000184	White Oak Bayou Watershed Study	4	4	280.8699951	28.37000084
06-51-0000000185	Upper Greens Bayou Watershed Study	17	17	320.2000122	161.0099945
06-51-0000000186	Brays Bayou - Poor Farm Ditch	0	0	37.20999908	0.400000006
06-51-0000000187	Brays Bayou Restore Channel Conveyance Capacity Along D115-00-00	0	0	59.06999969	0.980000019

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000188	Brays Bayou - Partnership Project with Fort Bend County on Right-of-Way Acquisition, Design, and Construction of General Drainage Improvements along Clodine Ditch	Further study of channel improvements from partnership project to restore channel conveyance including Atlas 14 rainfalls.	Fort Bend, Harris	06-02-0401040103, 06-02-0401040104, 06-02-0401040303, 06-02-0401040401	Project Planning	34.13902	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000191	Spring Creek - Construction of a Reservoir along Spring Creek	Further study for design and construction of a future flood control dam and reservoir in the Spring Creek watershed	Harris, Waller, Montgomery, Grimes	06-02-0401040103, 06-02-0401040104, 06-02-0401040303, 06-02-0401040401	Project Planning	384.393	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000192	White Oak Bayou - E127-00-00 Fork	Further study of channel improvements from partnership project to restore channel conveyance including Atlas 14 rainfalls.	Harris	06-02-0401040302, 06-02-0401040301	Project Planning	2.233715	Riverine	City of Jersey Village
06-51-0000000194	White Oak Bayou - Turkey Gully E106-00-00	Develop BCA to become a FMP. Further study of channel modifications from partnership project to restore channel conveyance, evaluated using Atlas 14 rainfall.	Harris	06-02-0401040304	Project Planning	6.78428	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000196	White Oak Bayou - General Drainage Improvements along E105-00-00	Further study of channel improvements from partnership project to restore channel conveyance including Atlas 14 rainfalls.	Harris	06-02-0401040304	Project Planning	0.916348	Riverine	City of Houston
06-51-0000000197	Investigation of COH Properties for Conversion to Stormwater Det. Basins	Further study for design and construction of stormwater detention basins on various City of Houston properties that may reduce the risk of flooding in the area	Harris	06-02-0401020104, 06-02-0401020106, 06-02-0401040601, 06-02-0401040305, 06-02-0401040302, 06-02-0401040604, 06-02-0401040303, 06-02-0401040304, 06-02-0401040301, 06-02-0401040701	Project Planning	1770.816	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000201	Little Cypress Creek - L109-00-00	Feasibility study of L109-00-00 to identify feasible flood risk reduction measures	Harris	06-02-0401020104, 06-02-0401020105, 06-02-0401020210	Project Planning	5.57682	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000202	Little Cypress Creek - L113-00-00	Feasibility study of L113-00-00 to identify feasible flood risk reduction measures	Harris	06-02-0401020104, 06-02-0401020105, 06-02-0401020205	Project Planning	14.95641	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000203	Little Cypress Creek - L103-00-00	Feasibility study of L103-00-00 to identify feasible flood risk reduction measures	Harris	06-02-0401020104, 06-02-0401020106, 06-02-0401020105	Project Planning	5.236028	Riverine	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000188	Brays Bayou - Partnership Project with Fort Bend County on Right-of-Way Acquisition, Design, and Construction of General Drainage Improvements along Clodine Ditch	Houston, Fort Bend, Harris County Flood Control District, Harris	No	1020000			326	252	1348	1
06-51-0000000191	Spring Creek - Construction of a Reservoir along Spring Creek	Grimes, Waller, Montgomery, Harris, Harris County Flood Control District	Yes	870000			4185	3431	17055	44
06-51-0000000192	White Oak Bayou - E127-00-00 Fork	Harris County Flood Control District, Harris	No	150000			393	376	941	0
06-51-0000000194	White Oak Bayou - Turkey Gully E106-00-00	Houston, Harris County Flood Control District, Harris	Yes	1330000			2537	2284	8056	6
06-51-0000000196	White Oak Bayou - General Drainage Improvements along E105-00-00	Houston, Harris County Flood Control District, Harris	No	120000			160	151	411	0
06-51-0000000197	Investigation of COH Properties for Conversion to Stormwater Det. Basins	Houston, Harris County Flood Control District, Harris, Liberty County Water Control District 1	Yes	500000			143547	120726	590942	2132
06-51-0000000201	Little Cypress Creek - L109-00-00	Harris County Flood Control District, Harris	Yes	200000			178	104	419	0
06-51-0000000202	Little Cypress Creek - L113-00-00	Harris County Flood Control District, Harris	Yes	300000			182	162	471	0
06-51-0000000203	Little Cypress Creek - L103-00-00	Houston, Harris County Flood Control District, Harris	Yes	150000			116	92	241	8

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000188	Brays Bayou - Partnership Project with Fort Bend County on Right-of-Way Acquisition, Design, and Construction of General Drainage Improvements along Clodine Ditch	0	0	19.77000046	217.6100006
06-51-0000000191	Spring Creek - Construction of a Reservoir along Spring Creek	27	27	106.1299973	231.6499939
06-51-0000000192	White Oak Bayou - E127-00-00 Fork	0	0	6.230000019	0
06-51-0000000194	White Oak Bayou - Turkey Gully E106-00-00	0	0	26.56999969	2.180000067
06-51-0000000196	White Oak Bayou - General Drainage Improvements along E105-00-00	0	0	3.440000057	0.680000007
06-51-0000000197	Investigation of COH Properties for Conversion to Stormwater Det. Basins	89	89	2407.73999	5993.470215
06-51-0000000201	Little Cypress Creek - L109-00-00	0	0	1.74000001	12.90999985
06-51-0000000202	Little Cypress Creek - L113-00-00	3	3	3.910000086	7.980000019
06-51-0000000203	Little Cypress Creek - L103-00-00	0	0	2.730000019	4.360000134

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000204	Greens Bayou - P130-05-02	Feasibility study of P130-05-02 to identify feasible flood risk reduction measures	Harris	06-02-0401040602	Project Planning	0.13498	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000205	Greens Bayou - P142-00-00	Feasibility study of P142-00-00 to identify feasible flood risk reduction measures	Harris	06-02-0401040603	Project Planning	1.634576	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000207	San Jacinto River - G103-46-00	Feasibility study of G103-46-00 to identify feasible flood risk reduction measures	Harris, Montgomery	06-02-0401010501	Project Planning	58.5065	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000208	San Jacinto River - G103-33-04	Feasibility study of G103-33-04 to identify feasible flood risk reduction measures	Harris	06-02-0401010501	Project Planning	1.127667	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000209	San Jacinto River - G103-36-00	Feasibility study of G103-36-00 to identify feasible flood risk reduction measures	Harris, Montgomery	06-02-0401010501	Project Planning	58.5065	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000213	City of Conroe Riverine Study and Mapping Improvements	Study and new modeling for moderate to low quality areas and revise the flood maps using the results from the updated modeling.	Montgomery	06-02-0401010207, 06-02-0401010401, 06-02-0401010402	Watershed Planning	100.0722	Riverine	City of Conroe
06-51-0000000214	April Sound Subdivision Evaluation	Detailed analysis to be completed for the entire development using detailed storm sewer modeling.	Montgomery	06-02-0401010207, 06-02-0401010401, 06-02-0401010402	Project Planning	100.0722	Urban or Local	City of Conroe
06-51-0000000215	City of Conroe Downtown Master Drainage Plan	Full as-built storm sewer inventory survey and a full drainage study recommended.	Montgomery	06-02-0401010207, 06-02-0401010401, 06-02-0401010402	Project Planning	100.0722	Urban or Local	City of Conroe
06-51-0000000216	Greens Bayou - P103-00-00	Feasibility study of P103-00-00 to identify feasible flood risk reduction measures	Harris	06-02-0401040703, 06-02-0401040702, 06-02-0401040606	Project Planning	5.545373	Riverine	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000204	Greens Bayou - P130-05-02	Houston, Harris County Flood Control District, Harris	Yes	150000			124	114	177	0
06-51-0000000205	Greens Bayou - P142-00-00	Houston, Harris County Flood Control District, Harris	Yes	250000			997	601	3381	7
06-51-0000000207	San Jacinto River - G103-46-00	Houston, Montgomery, Humble, Harris, Harris County Flood Control District	Yes	200000			1711	1464	6868	29
06-51-0000000208	San Jacinto River - G103-33-04	Houston, Harris County Flood Control District, Harris	Yes	200000			248	221	1137	1
06-51-0000000209	San Jacinto River - G103-36-00	Houston, Montgomery, Humble, Harris, Harris County Flood Control District	Yes	750000			1711	1464	6868	29
06-51-0000000213	City of Conroe Riverine Study and Mapping Improvements	Montgomery, Montgomery County Drainage District 9, Conroe, San Jacinto River Authority	No	500000			3460	2629	9102	40
06-51-0000000214	April Sound Subdivision Evaluation	Montgomery, Montgomery County Drainage District 9, Conroe, San Jacinto River Authority	No	1700000			3460	2629	9102	40
06-51-0000000215	City of Conroe Downtown Master Drainage Plan	Montgomery, Montgomery County Drainage District 9, Conroe, San Jacinto River Authority	No	750000			3460	2629	9102	40
06-51-0000000216	Greens Bayou - P103-00-00	Houston, Harris County Flood Control District, Harris	Yes	300000			391	197	1343	5

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000204	Greens Bayou - P130-05-02	0	0	1.720000029	0
06-51-0000000205	Greens Bayou - P142-00-00	0	0	23.48999977	1.49000001
06-51-0000000207	San Jacinto River - G103-46-00	0	0	41.84999847	72.23000336
06-51-0000000208	San Jacinto River - G103-33-04	0	0	3.74000001	0
06-51-0000000209	San Jacinto River - G103-36-00	0	0	41.84999847	72.23000336
06-51-0000000213	City of Conroe Riverine Study and Mapping Improvements	18	18	83.79000092	98.02999878
06-51-0000000214	April Sound Subdivision Evaluation	18	18	83.79000092	98.02999878
06-51-0000000215	City of Conroe Downtown Master Drainage Plan	18	18	83.79000092	98.02999878
06-51-0000000216	Greens Bayou - P103-00-00	0	0	6.690000057	15.06999969

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000217	Barker - T101-00-00	Feasibility study of T101-00-00 to identify feasible flood risk reduction measures	Harris	06-02-0401040102, 06-02-0401040104, 06-02-0401040203, 06-02-0401040303	Project Planning	17.28323	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000218	Barker - T103-00-00	Feasibility study of T103-00-00 to identify feasible flood risk reduction measures	Harris	06-02-0401040104	Project Planning	4.068017	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000219	Buffalo Bayou - W158-00-00	Feasibility study of W158-00-00 to identify feasible flood risk reduction measures	Harris	06-02-0401040303	Project Planning	2.815745	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000220	Buffalo Bayou - W130-00-00	Feasibility study of W130-00-00 to identify feasible flood risk reduction measures	Harris	06-02-0401040305, 06-02-0401040303	Project Planning	2.790941	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000221	Buffalo Bayou - W163-00-00	Feasibility study of W163-00-00 to identify feasible flood risk reduction measures	Harris	06-02-0401040303	Project Planning	1.38954	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000222	City of Arcola Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Fort Bend	06-02-0402040400	Watershed Planning	2.598059	Riverine	City of Arcola
06-51-0000000223	City of Baytown Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Chambers, Harris	06-02-0401040705, 06-02-0401040706, 06-02-0402030105, 06-02-0402030106, 06-02-0402030200	Watershed Planning	38.04996	Urban or Local	City of Baytown
06-51-0000000224	City of Beach City Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Chambers	06-02-0402030200	Watershed Planning	4.462683	Urban or Local	City of Beach City
06-51-0000000225	City of Bellaire Master Drainage Plan	Conduct planning study to produce a Master Drainage Plan for the City of Bellaire, identifying and developing specific flood-related capital improvements and implementation plans necessary to achieve a desired level of service / flood protection.	Harris	06-02-0401040402, 06-02-0401040401	Watershed Planning	3.584954	Riverine	City of Bellaire
06-51-0000000226	City of Brookside Village Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Brazoria	06-02-0402040100	Watershed Planning	2.058597	Urban or Local	City of Brookside Village
06-51-0000000227	City of Bunker Hill Village Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Harris	06-02-0401040303	Watershed Planning	1.43671	Riverine	City of Bunker Hill Village

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000217	Barker - T101-00-00	Houston, Harris County Flood Control District, Harris, Katy	Yes	500000			41	34	412	0
06-51-0000000218	Barker - T103-00-00	Houston, Harris County Flood Control District, Harris, Katy	Yes	300000			7	5	25	0
06-51-0000000219	Buffalo Bayou - W158-00-00	Houston, Harris County Flood Control District, Harris	Yes	200000			72	63	225	0
06-51-0000000220	Buffalo Bayou - W130-00-00	Houston, Harris County Flood Control District, Harris	Yes	100000			27	15	3954	0
06-51-0000000221	Buffalo Bayou - W163-00-00	Houston, Harris County Flood Control District, Harris	Yes	200000			70	68	226	0
06-51-0000000222	City of Arcola Master Drainage Plan	Arcola, Fort Bend	No	200000			41	37	39	0
06-51-0000000223	City of Baytown Master Drainage Plan	Chambers, Baytown, Harris, Harris County Flood Control District	Yes	520000			1184	974	5397	36
06-51-0000000224	City of Beach City Master Drainage Plan	Chambers, Beach City	Yes	240000			3	2	6	0
06-51-0000000225	City of Bellaire Master Drainage Plan	Bellaire, Harris County Flood Control District, Harris	Yes	1500000	Bonds/Other Financing (25%)	375000	5877	5537	25741	69
06-51-0000000226	City of Brookside Village Master Drainage Plan	Brookside Village, West Brazoria County Drainage District, Brazoria	Yes	190000			809	743	1467	0
06-51-0000000227	City of Bunker Hill Village Master Drainage Plan	Harris County Flood Control District, Harris, Bunker Hill Village	No	170000			0	0	0	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000217	Barker - T101-00-00	0	0	2.589999914	8.619999886
06-51-0000000218	Barker - T103-00-00	0	0	0.050000001	0.379999995
06-51-0000000219	Buffalo Bayou - W158-00-00	0	0	0.99000001	0.730000019
06-51-0000000220	Buffalo Bayou - W130-00-00	0	0	0.670000017	0.25
06-51-0000000221	Buffalo Bayou - W163-00-00	0	0	0.860000014	0.449999988
06-51-0000000222	City of Arcola Master Drainage Plan	0	0	0.219999999	1.230000019
06-51-0000000223	City of Baytown Master Drainage Plan	1	1	50.20000076	78.83999634
06-51-0000000224	City of Beach City Master Drainage Plan	0	0	0.200000003	4.71999979
06-51-0000000225	City of Bellaire Master Drainage Plan	0	0	70.91999817	0.159999996
06-51-0000000226	City of Brookside Village Master Drainage Plan	0	0	12.39999962	3.069999933
06-51-0000000227	City of Bunker Hill Village Master Drainage Plan	0	0	0	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000228	City of Clear Lake Shores Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	Galveston, Harris	06-02-0402040100	Watershed Planning	0.710432	Urban or Local	City of Clear Lake Shores
06-51-0000000229	City of Cleveland Master Drainage Plan	Study to d	Liberty, Montgomery, San Jacinto	06-02-0401030201, 06-02-0401030108, 06-02-0401030109, 06-02-0401030203, 06-02-0401030202, 06-02-0401030401	Watershed Planning	18.73655	Riverine	City of Cleveland
06-51-0000000230	City of Coldspring Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	San Jacinto	06-02-0401030307	Watershed Planning	1.85289	Urban or Local	City of Coldspring
06-51-0000000232	City of Cut and Shoot Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Montgomery	06-02-0401010403, 06-02-0401030102, 06-02-0401030104	Watershed Planning	2.699701	Riverine	City of Cut and Shoot
06-51-0000000233	City of Dayton Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Liberty	06-02-0402030104, 06-02-0402030103, 06-02-0402030102, 06-02-0402030101	Watershed Planning	30.58403	Riverine	City of Dayton
06-51-0000000234	City of Deer Park Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Harris	06-02-0401040703, 06-02-0401040706, 06-02-0402040100	Watershed Planning	10.52975	Urban or Local	City of Deer Park
06-51-0000000235	City of Dickinson Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Galveston	06-02-0402040200	Watershed Planning	10.29513	Urban or Local	City of Dickinson
06-51-0000000236	City of El Lago Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Harris	06-02-0402040100	Watershed Planning	0.706258	Riverine, Coastal	City of El Lago
06-51-0000000237	City of Friendswood Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Galveston, Harris	06-02-0402040200, 06-02-0402040100	Watershed Planning	20.82916	Urban or Local	City of Friendswood
06-51-0000000238	City of Fulshear Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Fort Bend	06-02-0401040103	Watershed Planning	12.05844	Urban or Local	City of Fulshear
06-51-0000000239	City of Galena Park Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Harris	06-02-0401040703, 06-02-0401040701	Watershed Planning	4.901337	Urban or Local	City of Galena Park
06-51-0000000241	City of Hedwig Village Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Harris	06-02-0401040303	Watershed Planning	0.943083	Urban or Local	City of Hedwig Village

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000228	City of Clear Lake Shores Master Drainage Plan	Harris, Galveston, Clear Lake Shores, Harris County Flood Control District	Yes	140000			633	529	2597	4
06-51-0000000229	City of Cleveland Master Drainage Plan	Cleveland, Liberty	No	400000			260	132	1037	0
06-51-0000000230	City of Coldspring Master Drainage Plan	San Jacinto, Coldspring	No	180000			0	0	0	0
06-51-0000000232	City of Cut and Shoot Master Drainage Plan	Montgomery, Cut and Shoot	No	210000			90	52	166	0
06-51-0000000233	City of Dayton Master Drainage Plan	Dayton, Liberty, Liberty County Water Control District 1	No	108000			32	26	74	0
06-51-0000000234	City of Deer Park Master Drainage Plan	Deer Park, Harris County Flood Control District, Harris	Yes	320000			469	241	7734	6
06-51-0000000235	City of Dickinson Master Drainage Plan	Galveston, Dickinson	Yes	320000			5622	4850	15510	76
06-51-0000000236	City of El Lago Master Drainage Plan	El Lago, Harris	No	140000			742	697	2384	9
06-51-0000000237	City of Friendswood Master Drainage Plan	Friendswood, Harris, Harris County Flood Control District, Galveston	Yes	750000			1680	1601	4640	1
06-51-0000000238	City of Fulshear Master Drainage Plan	Fulshear, Fort Bend	Yes	340000			0	0	0	0
06-51-0000000239	City of Galena Park Master Drainage Plan	Galena Park, Harris County Flood Control District, Harris	Yes	250000			205	156	465	9
06-51-0000000241	City of Hedwig Village Master Drainage Plan	Hedwig Village, Harris County Flood Control District, Harris	Yes	150000			0	0	0	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000228	City of Clear Lake Shores Master Drainage Plan	0	0	8.829999924	0
06-51-0000000229	City of Cleveland Master Drainage Plan	1	1	27.32999992	28.87999916
06-51-0000000230	City of Coldspring Master Drainage Plan	0	0	0	0
06-51-0000000232	City of Cut and Shoot Master Drainage Plan	0	0	1.710000038	2.880000114
06-51-0000000233	City of Dayton Master Drainage Plan	0	0	0.930000007	65.61000061
06-51-0000000234	City of Deer Park Master Drainage Plan	1	1	9.119999886	4.110000134
06-51-0000000235	City of Dickinson Master Drainage Plan	10	10	78.90000153	37.74000168
06-51-0000000236	City of El Lago Master Drainage Plan	0	0	9.359999657	0.449999988
06-51-0000000237	City of Friendswood Master Drainage Plan	5	5	37.72999954	18.37999916
06-51-0000000238	City of Fulshear Master Drainage Plan	0	0	0	0
06-51-0000000239	City of Galena Park Master Drainage Plan	0	0	2.640000105	3.450000048
06-51-0000000241	City of Hedwig Village Master Drainage Plan	0	0	0	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000242	City of Hillcrest Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Brazoria	06-02-0402040400	Watershed Planning	0.438197	Urban or Local	Hillcrest Village
06-51-0000000243	City of Hilshire Village Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Harris	06-02-0401040303	Watershed Planning	0.266485	Urban or Local	City of Hilshire Village
06-51-0000000244	City of Hitchcock Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Brazoria, Galveston	06-02-0402040300, 06-02-0402040200	Watershed Planning	91.21204	Urban or Local	City of Hitchcock
06-51-0000000246	City of Humble Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Harris	06-02-0401010501, 06-02-0401020213, 06-02-0401040602	Watershed Planning	9.788425	Urban or Local	City of Humble
06-51-0000000247	City of Hunters Creek Village Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Harris	06-02-0401040303	Watershed Planning	1.950556	Urban or Local	City of Hunters Creek Village
06-51-0000000248	City of Huntsville Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Walker	06-02-0401010104, 06-02-0401010102, 06-02-0401010201, 06-02-0401010202, 06-02-0401030302	Watershed Planning	43.2448	Urban or Local	City of Huntsville
06-51-0000000249	City of Iowa Colony Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Brazoria	06-02-0402040400	Watershed Planning	9.419504	Urban or Local	City of Iowa Colony
06-51-0000000250	City of Jacinto City Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Harris	06-02-0401040701	Watershed Planning	1.848003	Riverine, Coastal	City of Jacinto City
06-51-0000000251	City of Jamaica Beach Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Galveston	06-02-0402040300	Watershed Planning	0.714847	Riverine, Coastal	City of Jamaica Beach
06-51-0000000252	City of Jersey Village Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Harris	06-02-0401040302, 06-02-0401040301	Watershed Planning	3.416892	Urban or Local	City of Jersey Village
06-51-0000000253	City of Katy Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Fort Bend, Harris, Waller	06-02-0401040102, 06-02-0401040103, 06-02-0401040104, 06-02-0401040101, 06-02-0401040203	Watershed Planning	14.52125	Urban or Local	City of Katy
06-51-0000000254	City of Kemah Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Galveston, Chambers	06-02-0402040200, 06-02-0402040100	Watershed Planning	1.907838	Urban or Local	City of Kemah

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FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000242	City of Hillcrest Master Drainage Plan	Hillcrest Village, West Brazoria County Drainage District, Brazoria	Yes	130000			128	121	333	1
06-51-0000000243	City of Hilshire Village Master Drainage Plan	Hedwig Village, Harris County Flood Control District, Harris	Yes	110000			1	1	3	0
06-51-0000000244	City of Hitchcock Master Drainage Plan	West Brazoria County Drainage District, Brazoria, Hitchcock, Galveston	Yes	720000			2652	2267	5294	11
06-51-0000000246	City of Humble Master Drainage Plan	Humble, Harris County Flood Control District, Harris	Yes	320000			652	489	3460	5
06-51-0000000247	City of Hunters Creek Village Master Drainage Plan	Hilshire Village, Harris County Flood Control District, Harris	Yes	190000			108	103	345	1
06-51-0000000248	City of Huntsville Master Drainage Plan	Huntsville, Walker	Yes	500000			114	96	244	0
06-51-0000000249	City of Iowa Colony Master Drainage Plan	West Brazoria County Drainage District, Brazoria, Iowa Colony	Yes	310000			1162	1030	1271	1
06-51-0000000250	City of Jacinto City Master Drainage Plan	Jacinto City, Harris	No	180000			10	5	28	0
06-51-0000000251	City of Jamaica Beach Master Drainage Plan	Jamaica Beach, Galveston	No	140000			1276	1238	275	4
06-51-0000000252	City of Jersey Village Master Drainage Plan	Harris County Flood Control District, Harris, Jersey Village	Yes	220000			894	862	6636	12
06-51-0000000253	City of Katy Master Drainage Plan	Waller, Fort Bend, Katy, Harris, Harris County Flood Control District	Yes	360000			545	444	1445	8
06-51-0000000254	City of Kemah Master Drainage Plan	Kemah, Chambers, Galveston	Yes	190000			562	425	2792	7

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000242	City of Hillcrest Master Drainage Plan	0	0	2.079999924	0.140000001
06-51-0000000243	City of Hilshire Village Master Drainage Plan	0	0	0.01	0
06-51-0000000244	City of Hitchcock Master Drainage Plan	0	0	72.51999664	884.1799927
06-51-0000000246	City of Humble Master Drainage Plan	1	1	16.95999908	25.13999939
06-51-0000000247	City of Hunters Creek Village Master Drainage Plan	0	0	1.169999957	0
06-51-0000000248	City of Huntsville Master Drainage Plan	1	1	2.700000048	9.270000458
06-51-0000000249	City of Iowa Colony Master Drainage Plan	0	0	28.46999931	338.5299988
06-51-0000000250	City of Jacinto City Master Drainage Plan	0	0	0.140000001	0
06-51-0000000251	City of Jamaica Beach Master Drainage Plan	0	0	13.81000042	2.829999924
06-51-0000000252	City of Jersey Village Master Drainage Plan	0	0	13.98999977	0
06-51-0000000253	City of Katy Master Drainage Plan	4	4	10.02999973	21.65999985
06-51-0000000254	City of Kemah Master Drainage Plan	0	0	12.01000023	0.730000019

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000255	City of La Marque Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Galveston	06-02-0402040200	Watershed Planning	14.23283	Urban or Local	City of La Marque
06-51-0000000256	City of La Porte Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Harris	06-02-0401040706, 06-02-0402040100	Watershed Planning	19.83301	Urban or Local	City of La Porte
06-51-0000000257	City of League City Master Drainage Plan	Project would be a drainage model building off the recently completed CoLC 2-D Drainage Model and expand this model in the City's subdivisions and neighborhoods. It would be intended for this to be done in phases with areas where FEMA has had a high conc	Galveston, Harris	06-02-0402040200, 06-02-0402040100	Watershed Planning	52.88821	Urban or Local	City of League City
06-51-0000000258	City of Liverpool Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Brazoria	06-02-0402040400	Watershed Planning	1.090863	Urban or Local	City of Liverpool
06-51-0000000259	City of Magnolia Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Montgomery	06-02-0401020204, 06-02-0401020207, 06-02-0401020208	Watershed Planning	2.8702	Riverine	City of Magnolia
06-51-0000000260	City of Manvel Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Brazoria	06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Watershed Planning	27.4094	Urban or Local	City of Manvel
06-51-0000000261	City of Meadows Place Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Fort Bend	06-02-0401040401	Watershed Planning	0.930411	Urban or Local	City of Meadows Place
06-51-0000000262	City of Missouri City Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Fort Bend, Harris	06-02-0401040401, 06-02-0401040501, 06-02-0402040400	Watershed Planning	30.291	Riverine	City of Missouri City
06-51-0000000263	City of Mont Belvieu Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Chambers, Harris, Liberty	06-02-0402030105, 06-02-0402030104	Watershed Planning	17.19752	Riverine, Coastal	City of Mont Belvieu
06-51-0000000264	City of Montgomery Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Montgomery	06-02-0401010307, 06-02-0401010206	Watershed Planning	5.097617	Riverine	City of Montgomery
06-51-0000000265	City of Morgan's Point Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Chambers, Harris	06-02-0401040706, 06-02-0402040100	Watershed Planning	2.224312	Urban or Local	City of Morgan's Point
06-51-0000000266	City of Nassau Bay Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Galveston, Harris	06-02-0402040100	Watershed Planning	1.738752	Urban or Local	City of Nassau Bay
06-51-0000000267	City of New Waverly Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Walker	06-02-0401030101	Watershed Planning	2.213119	Riverine	City of New Waverly

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000255	City of La Marque Master Drainage Plan	La Marque, Galveston	Yes	360000			829	767	1455	8
06-51-0000000256	City of La Porte Master Drainage Plan	La Porte, Harris County Flood Control District, Harris	Yes	410000			2532	2250	6121	32
06-51-0000000257	City of League City Master Drainage Plan	League City, Harris, Harris County Flood Control District, Galveston	Yes	580000			5251	4835	13675	25
06-51-0000000258	City of Liverpool Master Drainage Plan	West Brazoria County Drainage District, Brazoria, Liverpool	Yes	160000			130	110	103	0
06-51-0000000259	City of Magnolia Master Drainage Plan	Montgomery, Magnolia	No	210000			23	19	60	0
06-51-0000000260	City of Manvel Master Drainage Plan	West Brazoria County Drainage District, Brazoria, Manvel	Yes	460000			1249	965	6741	8
06-51-0000000261	City of Meadows Place Master Drainage Plan	Meadows Place, Fort Bend	Yes	150000			0	0	0	0
06-51-0000000262	City of Missouri City Master Drainage Plan	Fort Bend, Missouri City	No	470000			213	162	854	1
06-51-0000000263	City of Mont Belvieu Master Drainage Plan	Mont Belvieu, Chambers, Liberty County Water Control District 1	No	390000			30	11	18	0
06-51-0000000264	City of Montgomery Master Drainage Plan	Montgomery, Montgomery	No	250000			27	18	7	0
06-51-0000000265	City of Morgan's Point Master Drainage Plan	Morgan's Point, Harris County Flood Control District, Harris	Yes	190000			48	46	249	0
06-51-0000000266	City of Nassau Bay Master Drainage Plan	Nassau Bay, Harris, Harris County Flood Control District, Galveston	Yes	180000			1021	944	5328	18
06-51-0000000267	City of New Waverly Master Drainage Plan	New Waverly, Walker	No	190000			23	18	19	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000255	City of La Marque Master Drainage Plan	1	1	31.12000084	37.84999847
06-51-0000000256	City of La Porte Master Drainage Plan	0	0	54.13999939	15.27000046
06-51-0000000257	City of League City Master Drainage Plan	2	2	104.5699997	1308.199951
06-51-0000000258	City of Liverpool Master Drainage Plan	0	0	3.329999924	5.300000191
06-51-0000000259	City of Magnolia Master Drainage Plan	0	0	0.569999993	0.430000007
06-51-0000000260	City of Manvel Master Drainage Plan	0	0	43.31999969	178.8099976
06-51-0000000261	City of Meadows Place Master Drainage Plan	0	0	0.01	0
06-51-0000000262	City of Missouri City Master Drainage Plan	0	0	2.619999886	2.089999914
06-51-0000000263	City of Mont Belvieu Master Drainage Plan	0	0	1.549999952	5.099999905
06-51-0000000264	City of Montgomery Master Drainage Plan	0	0	0.870000005	2.730000019
06-51-0000000265	City of Morgan's Point Master Drainage Plan	0	0	0.079999998	1.00999999
06-51-0000000266	City of Nassau Bay Master Drainage Plan	0	0	17.53000069	0.50999999
06-51-0000000267	City of New Waverly Master Drainage Plan	0	0	0.479999989	0.889999986

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000268	City of North Cleveland Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Liberty	06-02-0401030201, 06-02-0401030401	Watershed Planning	1.908586	Riverine	City of North Cleveland
06-51-0000000269	City of Oak Ridge North Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Montgomery	06-02-0401010404, 06-02-0401020212	Watershed Planning	1.440423	Urban or Local	City of Oak Ridge North
06-51-0000000270	City of Panorama Village Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Montgomery	06-02-0401010207, 06-02-0401010401	Watershed Planning	1.087952	Riverine	City of Panorama Village
06-51-0000000271	City of Pasadena Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Chambers, Harris	06-02-0401040703, 06-02-0401040502, 06-02-0402040100	Watershed Planning	44.58406	Urban or Local	City of Pasadena
06-51-0000000272	City of Patton Village Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Montgomery	06-02-0401030109, 06-02-0401030402	Watershed Planning	2.398274	Urban or Local	City of Patton Village
06-51-0000000274	City of Piney Point Village Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Harris	06-02-0401040303	Watershed Planning	2.125369	Urban or Local	City of Piney Point Village
06-51-0000000275	City of Plantersville Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Grimes	06-02-0401010305, 06-02-0401010306, 06-02-0401020206	Watershed Planning	1.980056	Riverine	City of Plantersville
06-51-0000000276	City of Plum Grove Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Liberty	06-02-0401030402	Watershed Planning	3.613092	Riverine	City of Plum Grove
06-51-0000000277	City of Prairie View Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Waller	06-02-0401020101	Watershed Planning	7.320922	Riverine	City of Prairie View
06-51-0000000278	City of Roman Forest Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Montgomery	06-02-0401030109, 06-02-0401030402	Watershed Planning	2.19068	Urban or Local	City of Roman Forest
06-51-0000000279	City of Santa Fe Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Galveston	06-02-0402040300, 06-02-0402040200	Watershed Planning	17.0353	Urban or Local	City of Santa Fe
06-51-0000000280	City of Seabrook Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Galveston, Chambers, Harris	06-02-0402040100	Watershed Planning	21.19206	Urban or Local	City of Seabrook
06-51-0000000281	City of Shenandoah Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Montgomery	06-02-0401010402, 06-02-0401010404, 06-02-0401020211, 06-02-0401020212	Watershed Planning	1.946162	Urban or Local	City of Shenandoah
06-51-0000000282	City of Shoreacres Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Chambers, Harris	06-02-0402040100	Watershed Planning	0.958358	Riverine, Coastal	City of Shoreacres

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000268	City of North Cleveland Master Drainage Plan	North Cleveland, Liberty	No	190000			52	37	42	0
06-51-0000000269	City of Oak Ridge North Master Drainage Plan	Montgomery, Oak Ridge North	Yes	170000			85	73	426	0
06-51-0000000270	City of Panorama Village Master Drainage Plan	Montgomery, Panorama Village	No	160000			77	65	126	7
06-51-0000000271	City of Pasadena Master Drainage Plan	Pasadena, Harris County Flood Control District, Harris	Yes	550000			3591	2839	18187	56
06-51-0000000272	City of Patton Village Master Drainage Plan	Montgomery, Patton Village	Yes	200000			441	374	532	0
06-51-0000000274	City of Piney Point Village Master Drainage Plan	Piney Point Village, Harris County Flood Control District, Harris	Yes	190000			129	124	765	1
06-51-0000000275	City of Plantersville Master Drainage Plan	Grimes, Plantersville	No	190000			28	16	20	0
06-51-0000000276	City of Plum Grove Master Drainage Plan	Plum Grove, Liberty	No	230000			362	266	484	1
06-51-0000000277	City of Prairie View Master Drainage Plan	Waller, Prairie View	No	290000			32	25	44	0
06-51-0000000278	City of Roman Forest Master Drainage Plan	Montgomery, Roman Forest	Yes	190000			86	73	253	0
06-51-0000000279	City of Santa Fe Master Drainage Plan	Santa Fe, Galveston	Yes	380000			399	306	748	0
06-51-0000000280	City of Seabrook Master Drainage Plan	Seabrook, Chambers, Harris, Galveston, Harris County Flood Control District	Yes	420000			3567	3176	10374	58
06-51-0000000281	City of Shenandoah Master Drainage Plan	Montgomery, Shenandoah	Yes	190000			10	9	45	0
06-51-0000000282	City of Shoreacres Master Drainage Plan	Shoreacres, Harris County Flood Control District, Harris	No	150000			801	787	2148	3

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000268	City of North Cleveland Master Drainage Plan	0	0	3.309999943	6.179999828
06-51-0000000269	City of Oak Ridge North Master Drainage Plan	0	0	1.039999962	0
06-51-0000000270	City of Panorama Village Master Drainage Plan	0	0	0.660000026	0.230000004
06-51-0000000271	City of Pasadena Master Drainage Plan	6	6	73.84999847	81.94999695
06-51-0000000272	City of Patton Village Master Drainage Plan	0	0	14.43000031	4.099999905
06-51-0000000274	City of Piney Point Village Master Drainage Plan	0	0	1.279999971	0.409999996
06-51-0000000275	City of Plantersville Master Drainage Plan	0	0	0.610000014	0.949999988
06-51-0000000276	City of Plum Grove Master Drainage Plan	0	0	8.989999771	9.220000267
06-51-0000000277	City of Prairie View Master Drainage Plan	0	0	1.659999967	15.27999973
06-51-0000000278	City of Roman Forest Master Drainage Plan	0	0	3.180000067	0
06-51-0000000279	City of Santa Fe Master Drainage Plan	9	9	4.130000114	12.13000011
06-51-0000000280	City of Seabrook Master Drainage Plan	0	0	52.06000137	11.47999954
06-51-0000000281	City of Shenandoah Master Drainage Plan	0	0	0.02	0.25999999
06-51-0000000282	City of Shoreacres Master Drainage Plan	1	1	17.17000008	0.230000004

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000283	City of South Houston Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Harris	06-02-0401040703, 06-02-0401040502	Watershed Planning	3.036131	Urban or Local	City of South Houston
06-51-0000000284	City of Southside Place Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Harris	06-02-0401040402	Watershed Planning	0.248464	Riverine	City of Southside Place
06-51-0000000285	City of Splendora Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Montgomery	06-02-0401030109, 06-02-0401030402, 06-02-0401030401	Watershed Planning	3.056112	Urban or Local	City of Splendora
06-51-0000000286	City of Spring Valley Village Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Harris	06-02-0401040303	Watershed Planning	1.21107	Urban or Local	City of Spring Valley Village
06-51-0000000287	City of Stafford Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Fort Bend, Harris	06-02-0401040401, 06-02-0401040501, 06-02-0402040400	Watershed Planning	7.020157	Urban or Local	City of Stafford
06-51-0000000288	City of Stagecoach Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Montgomery	06-02-0401020204, 06-02-0401020208	Watershed Planning	1.174929	Riverine	City of Stagecoach
06-51-0000000289	City of Sugar Land Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Fort Bend	06-02-0401040401	Watershed Planning	42.75628	Urban or Local	City of Sugar Land
06-51-0000000290	City of Taylor Lake Village Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Harris	06-02-0402040100	Watershed Planning	1.302908	Riverine, Coastal	City of Taylor Lake Village
06-51-0000000291	City of Texas City Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Galveston, Chambers	06-02-0402040200	Watershed Planning	185.0781	Urban or Local	City of Texas City
06-51-0000000292	City of Tiki Island Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Galveston	06-02-0402040200	Watershed Planning	1.5865	Urban or Local	City of Tiki Island
06-51-0000000293	City of Todd Mission Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Grimes	06-02-0401020203, 06-02-0401020206	Watershed Planning	2.004335	Riverine	City of Todd Mission
06-51-0000000294	City of Tomball Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Harris, Montgomery	06-02-0401020106, 06-02-0401020205, 06-02-0401020210, 06-02-0401020209	Watershed Planning	13.04089	Riverine	City of Tomball
06-51-0000000295	City of Waller Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Harris, Waller	06-02-0401020101, 06-02-0401020105, 06-02-0401020201	Watershed Planning	3.708537	Riverine	City of Waller

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000283	City of South Houston Master Drainage Plan	South Houston, Harris County Flood Control District, Harris	Yes	210000			1420	943	6432	22
06-51-0000000284	City of Southside Place Master Drainage Plan	Southside Place, Harris	No	110000			500	476	1468	5
06-51-0000000285	City of Splendora Master Drainage Plan	Splendora, Montgomery	Yes	210000			231	119	329	0
06-51-0000000286	City of Spring Valley Village Master Drainage Plan	Spring Valley Village, Harris County Flood Control District, Harris	Yes	160000			22	22	69	0
06-51-0000000287	City of Stafford Master Drainage Plan	Stafford, Fort Bend, Harris County Flood Control District, Harris	Yes	280000			0	0	0	0
06-51-0000000288	City of Stagecoach Master Drainage Plan	Montgomery, Stagecoach	No	160000			18	16	27	0
06-51-0000000289	City of Sugar Land Master Drainage Plan	Sugar Land, Fort Bend	Yes	540000			0	0	0	0
06-51-0000000290	City of Taylor Lake Village Master Drainage Plan	Taylor Lake Village, Harris County Flood Control District, Harris	No	170000			852	838	1955	0
06-51-0000000291	City of Texas City Master Drainage Plan	Chambers, Texas City, Galveston	Yes	950000			1284	700	2121	16
06-51-0000000292	City of Tiki Island Master Drainage Plan	Tiki Island, Galveston	Yes	180000			1006	978	1681	6
06-51-0000000293	City of Todd Mission Master Drainage Plan	Grimes, Todd Mission	No	190000			17	11	16	0
06-51-0000000294	City of Tomball Master Drainage Plan	Tomball, Harris County Flood Control District, Harris	No	350000			47	29	457	0
06-51-0000000295	City of Waller Master Drainage Plan	Waller, Waller	No	100000	General Revenue (0%)		148	82	578	4

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000283	City of South Houston Master Drainage Plan	0	0	19.36000061	0
06-51-0000000284	City of Southside Place Master Drainage Plan	0	0	3.839999914	0
06-51-0000000285	City of Splendora Master Drainage Plan	0	0	8.369999886	1.679999948
06-51-0000000286	City of Spring Valley Village Master Drainage Plan	0	0	0.569999993	0
06-51-0000000287	City of Stafford Master Drainage Plan	0	0	0	0
06-51-0000000288	City of Stagecoach Master Drainage Plan	0	0	0.769999981	0.01
06-51-0000000289	City of Sugar Land Master Drainage Plan	0	0	0.01	0
06-51-0000000290	City of Taylor Lake Village Master Drainage Plan	0	0	13.32999992	0
06-51-0000000291	City of Texas City Master Drainage Plan	3	3	46.22999954	569.9099731
06-51-0000000292	City of Tiki Island Master Drainage Plan	0	0	9.640000343	3.920000076
06-51-0000000293	City of Todd Mission Master Drainage Plan	0	0	0	1.120000005
06-51-0000000294	City of Tomball Master Drainage Plan	0	0	3.720000029	4.599999905
06-51-0000000295	City of Waller Master Drainage Plan	7	7	5.340000153	47.50999832

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000296	City of Webster Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Harris	06-02-0402040100	Watershed Planning	6.597666	Urban or Local	City of Webster
06-51-0000000297	City of West University Place Master Drainage Plan	Study to develop refine Master Drainage Plan and Projects using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Harris	06-02-0401040402	Watershed Planning	1.997179	Riverine	West University Place
06-51-0000000298	City of Willis Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Montgomery	06-02-0401010403, 06-02-0401010401, 06-02-0401010204, 06-02-0401010205, 06-02-0401030102, 06-02-0401030101	Watershed Planning	4.71567	Riverine	City of Willis
06-51-0000000299	City of Woodbranch Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Montgomery	06-02-0401030105, 06-02-0401030109	Watershed Planning	2.000628	Urban or Local	Woodbranch Village
06-51-0000000300	Town of Woodloch Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Montgomery	06-02-0401010402	Watershed Planning	0.084055	Urban or Local	Town of Woodloch
06-51-0000000301	Brazoria Flood Mapping Updates	County wide study to produce flood mapping updates including Atlas 14 rainfall.	Brazoria	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Watershed Planning	1481.87	Riverine, Urban or Local	Brazoria County
06-51-0000000302	Chambers Flood Mapping Updates	County wide study to produce flood mapping updates including Atlas 14 rainfall.	Chambers	06-02-0402030105, 06-02-0402030104, 06-02-0402030106, 06-02-0402030200	Watershed Planning	865.5478	Riverine, Urban or Local	Chambers County

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000296	City of Webster Master Drainage Plan	Webster, Harris County Flood Control District, Harris	Yes	280000			209	164	1940	0
06-51-0000000297	City of West University Place Master Drainage Plan	West University Place, Harris County Flood Control District, Harris	No	190000	Internal CIP Dollars (20%)	38000	939	922	2931	6
06-51-0000000298	City of Willis Master Drainage Plan	Montgomery, Willis	No	250000			61	18	342	0
06-51-0000000299	City of Woodbranch Master Drainage Plan	Montgomery, Woodbranch Village	Yes	190000			197	189	398	0
06-51-0000000300	Town of Woodloch Master Drainage Plan	Woodloch, Montgomery	Yes	50000			85	80	233	0
06-51-0000000301	Brazoria Flood Mapping Updates	Brookside Village, Hillcrest Village, Brazoria, Pearland, Alvin, Manvel, Liverpool, Hitchcock, Iowa Colony, West Brazoria County Drainage District	Yes	6440000			18836	14338	38615	246
06-51-0000000302	Chambers Flood Mapping Updates	Seabrook, Mont Belvieu, Chambers, Morgan's Point, Pasadena, Texas City, Shoreacres, Baytown, Beach City, Kemah, Liberty County Water Control District 1	Yes	631000			151	56	715	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000296	City of Webster Master Drainage Plan	1	1	8.489999771	18.73999977
06-51-0000000297	City of West University Place Master Drainage Plan	0	0	11.89999962	0
06-51-0000000298	City of Willis Master Drainage Plan	0	0	1.669999957	0.930000007
06-51-0000000299	City of Woodbranch Master Drainage Plan	0	0	3.539999962	0
06-51-0000000300	Town of Woodloch Master Drainage Plan	0	0	1.019999981	0
06-51-0000000301	Brazoria Flood Mapping Updates	0	0	328.0700073	8584.160156
06-51-0000000302	Chambers Flood Mapping Updates	0	0	7.300000191	354.0799866

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000304	Galveston Flood Mapping Updates	County wide study to produce flood mapping updates including Atlas 14 rainfall.	Galveston	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Watershed Planning	664.9483	Riverine, Urban or Local	Galveston County
06-51-0000000305	Grimes Flood Mapping Updates	County wide study to produce flood mapping updates including Atlas 14 rainfall.	Grimes	06-02-0401010101, 06-02-0401010301, 06-02-0401010302, 06-02-0401010303, 06-02-0401010103, 06-02-0401010304, 06-02-0401010305, 06-02-0401010306, 06-02-0401020202, 06-02-0401020203, 06-02-0401020207, 06-02-0401020206	Watershed Planning	798.8737	Riverine, Urban or Local	Grimes County
06-51-0000000307	Montgomery Flood Mapping Updates	County wide study to produce flood mapping updates including Atlas 14 rainfall.	Montgomery	06-02-0401010101, 06-02-0401010301, 06-02-0401010302, 06-02-0401010303, 06-02-0401010103, 06-02-0401010304, 06-02-0401010305, 06-02-0401010306, 06-02-0401020202, 06-02-0401020203, 06-02-0401020207, 06-02-0401020206	Watershed Planning	1072.611	Riverine, Urban or Local	Montgomery County

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000304	Galveston Flood Mapping Updates	League City, Kemah, Seabrook, Tiki Island, Friendswood, Texas City, Santa Fe, La Marque, Hitchcock, Bayou Vista, Galveston, Nassau Bay, Clear Lake Shores, Jamaica Beach, Dickinson	Yes	2960000			48545	42165	102745	667
06-51-0000000305	Grimes Flood Mapping Updates	Grimes, Todd Mission, Plantersville	Yes	908000			144	75	95	0
06-51-0000000307	Montgomery Flood Mapping Updates	Splendora, Houston, Magnolia, Woodloch, Conroe, Cut and Shoot, Shenandoah, Cleveland, Montgomery, Stagecoach, Patton Village, Roman Forest, Tomball, Oak Ridge North, Panorama Village, Montgomery County Drainage District 9	Yes	4700000			21175	16916	42121	116

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000304	Galveston Flood Mapping Updates	30	30	910.3599854	3412.030029
06-51-0000000305	Grimes Flood Mapping Updates	1	1	10.81000042	151.2799988
06-51-0000000307	Montgomery Flood Mapping Updates	72	72	409.3399963	852.3800049

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000308	San Jacinto Flood Mapping Updates	County wide study to produce flood mapping updates including Atlas 14 rainfall.	San Jacinto	06-02-0401030201, 06-02-0401030108, 06-02-0401030106, 06-02-0401030107, 06-02-0401030303, 06-02-0401030305, 06-02-0401030202, 06-02-0401030301, 06-02-0401030302, 06-02-0401030304, 06-02-0401030306, 06-02-0401030401, 06-02-0401030307, 06-02-0401030308	Watershed Planning	625.6853	Riverine, Urban or Local	San Jacinto County
06-51-0000000309	Walker Flood Mapping Updates	County wide study to produce flood mapping updates including Atlas 14 rainfall.	Walker	06-02-0401010104, 06-02-0401010101, 06-02-0401010102, 06-02-0401010103, 06-02-0401010201, 06-02-0401010202, 06-02-0401010203, 06-02-0401010204, 06-02-0401030101, 06-02-0401030106, 06-02-0401030303, 06-02-0401030305, 06-02-0401030301, 06-02-0401030302	Watershed Planning	797.8365	Riverine, Urban or Local	Walker County
06-51-0000000310	Waller Flood Mapping Updates	County wide study to produce flood mapping updates including Atlas 14 rainfall.	Waller	06-02-0401020102, 06-02-0401020103, 06-02-0401020204, 06-02-0401020101, 06-02-0401020201, 06-02-0401020202, 06-02-0401020203, 06-02-0401020205, 06-02-0401020207, 06-02-0401020206, 06-02-0401040102, 06-02-0401040103, 06-02-0401040101, 06-02-0401040203	Watershed Planning	515.9483	Riverine, Urban or Local	Waller County
06-51-0000000311	37th Street, Galveston, Drainage Project	Further study and FMP development of existing storm sewer system replacement and upgrades using the city's updated drainage criteria that now require a 25-year storm drainage capacity.	Brazoria, Galveston	06-02-0402040200	Project Planning	253.1708	Coastal, Urban or Local	City of Galveston

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000308	San Jacinto Flood Mapping Updates	San Jacinto	Yes	1419000			1028	933	1376	0
06-51-0000000309	Walker Flood Mapping Updates	Huntsville, New Waverly, Walker	Yes	1747000			505	437	545	0
06-51-0000000310	Waller Flood Mapping Updates	Prairie View, Houston, Waller, Katy	Yes	2300000	General Revenue (10%)	230000	1064	705	1858	6
06-51-0000000311	37th Street, Galveston, Drainage Project	Galveston, Galveston	No	30000			40129	34104	89177	636

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000308	San Jacinto Flood Mapping Updates	1	1	47.93000031	63.11999893
06-51-0000000309	Walker Flood Mapping Updates	2	2	25.43000031	180.4700012
06-51-0000000310	Waller Flood Mapping Updates	19	19	40.91999817	1357.319946
06-51-0000000311	37th Street, Galveston, Drainage Project	26	26	722.7800293	2683.209961

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000312	Addicks Reservoir - Right-Of-Way Acquisition, Design and Construction of a Stormwater Detention Basin on South Mayde Creek	Develop BCA to become a FMP. This project is part of the South Mayde Creek Plan that could reduce the risk of flooding for more than 70 homes and reduce the rainfall event by more than 340 acres in a pre-Atlas 1% rainfall event.	Harris	06-02-0401040102, 06-02-0401040202, 06-02-0401040104, 06-02-0401040203, 06-02-0401040303	Project Planning	15.50179	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000313	Addicks Reservoir - Design and Construction of Dinner Creek Stormwater Detention Basin	Develop BCA to become a FMP. Project would provide additional stormwater detention in support of flood damage reduction and could reduce the risk of flooding for approximately 30 multi-family structures in Addicks Reservoir Watershed.	Harris	06-02-0401040201, 06-02-0401040202	Project Planning	13.03555	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000315	Addicks Reservoir - Right-Of-Way Acquisition, Design and Construction of Channel Conveyance Improvements, Bypass Channel, and Detention for South Mayde Creek	Study to develop a BCA needed for this project to become a FMP. This project is part of the South Mayde Creek Plan to reduce flood risk 70+ homes & reduce the rainfall event by 340+ acres in pre-Atlas 1% rainfall event.	Harris	06-02-0401040202, 06-02-0401040104, 06-02-0401040203, 06-02-0401040303	Project Planning	13.19896	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000317	Arcadian Gardens Subdivision Drainage Improvements	Study to develop a Cost Benefit Analysis and elevate the project to a FMP. To achieve this goal, the key features of improvements are to rehabilitate roadside swales, build new storm sewers and improve the outfall drainage conditions.	Harris	06-02-0401040704	Project Planning	0.318941	Urban or Local	Harris County
06-51-0000000318	Fort Bend County Willow Fork Channel Improvements	Further study and BCA development. Combo of 11 different channel improvements were identified along Willow Fork and its tributaries as part of the Fort Bend County Master Drainage Plan that, when combined, will provide a 100-year level of service.	Fort Bend, Harris, Waller	06-02-0401040102, 06-02-0401040103, 06-02-0401040104, 06-02-0401040101, 06-02-0401040401	Project Planning	46.09925	Riverine	Fort Bend County Drainage District
06-51-0000000319	Armand Bayou - Design and Construction of the B509-03-00 and B509-04-00 Stormwater Detention Basins	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Design and Construction of this stormwater detention basin could reduce the risk of flooding for over 400 structures in an Atlas 14 1% rainfall event.	Harris	06-02-0402040100	Project Planning	4.791723	Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000320	Warren Lake and Dam Retrofit	Further study of Retrofit dam to improve detention of flood & storm water runoff, new 137.3 ac wetlands complex added of storage capacity & conversion of fields to tallgrass prairies to add approximately 856 ac-ft of total storage during rainfall events.	Harris	06-02-0401020103	Project Planning	2.111615	Riverine, Urban or Local	Coastal Prairie Conservancy
06-51-0000000321	Armand Bayou Watershed- Basin Expansion and Extension and H&H Study (Phases 1 + 2)	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Channel modifications along B115-00-00 requires expansion of B500-04-00 and new detention property.	Harris	06-02-0402040100	Project Planning	1.092433	Riverine	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000312	Addicks Reservoir - Right-Of-Way Acquisition, Design and Construction of a Stormwater Detention Basin on South Mayde Creek	Houston, Harris County Flood Control District, Harris	No	30000			692	638	2455	12
06-51-0000000313	Addicks Reservoir - Design and Construction of Dinner Creek Stormwater Detention Basin	Houston, Harris County Flood Control District, Harris	No	30000			381	367	2094	1
06-51-0000000315	Addicks Reservoir - Right-Of-Way Acquisition, Design and Construction of Channel Conveyance Improvements, Bypass Channel, and Detention for South Mayde Creek	Houston, Harris County Flood Control District, Harris	No	30000			944	854	3968	21
06-51-0000000317	Arcadian Gardens Subdivision Drainage Improvements	Harris County Flood Control District, Harris	No	30000			5	4	5	0
06-51-0000000318	Fort Bend County Willow Fork Channel Improvements	Waller, Fort Bend, Harris County Flood Control District, Harris	No	30000			403	288	991	10
06-51-0000000319	Armand Bayou - Design and Construction of the B509-03-00 and B509-04-00 Stormwater Detention Basins	La Porte, Pasadena, Harris County Flood Control District, Harris	No	30000			63	16	390	0
06-51-0000000320	Warren Lake and Dam Retrofit	Harris County Flood Control District, Harris	No	30000			0	0	0	0
06-51-0000000321	Armand Bayou Watershed- Basin Expansion and Extension and H&H Study (Phases 1 + 2)	Pasadena, Harris County Flood Control District, Harris	No	30000			371	291	1624	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000312	Addicks Reservoir - Right-Of-Way Acquisition, Design and Construction of a Stormwater Detention Basin on South Mayde Creek	0	0	11.64999962	27.29999924
06-51-0000000313	Addicks Reservoir - Design and Construction of Dinner Creek Stormwater Detention Basin	0	0	4.639999866	13.34000015
06-51-0000000315	Addicks Reservoir - Right-Of-Way Acquisition, Design and Construction of Channel Conveyance Improvements, Bypass Channel, and Detention for South Mayde Creek	0	0	15.67000008	19.43000031
06-51-0000000317	Arcadian Gardens Subdivision Drainage Improvements	0	0	0.02	0
06-51-0000000318	Fort Bend County Willow Fork Channel Improvements	2	2	8.470000267	80.04000092
06-51-0000000319	Armand Bayou - Design and Construction of the B509-03-00 and B509-04-00 Stormwater Detention Basins	0	0	2.809999943	6.159999847
06-51-0000000320	Warren Lake and Dam Retrofit	0	0	0	183.1999969
06-51-0000000321	Armand Bayou Watershed- Basin Expansion and Extension and H&H Study (Phases 1 + 2)	0	0	3.839999914	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000322	Jackson Bayou Watershed Planning Project- Immediate: First Street Crossing Mitigation	Develop BCA to become a FMP. Priority ranking #1, 0.5 mile upstream along Jackson Bayou identified to fulfill mitigation efforts. Culvert upsizing recommended at First Street. Improvements produced need or 32.4 acre-feet of detention.	Harris	06-02-0401040704	Project Planning	0.514018	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000323	B106-WP01 & WP02 for Armand Bayou Watershed	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Conveyance improvements for B106-00-00 channel, including detention/mitigation storage.	Harris	06-02-0401040706, 06-02-0402040100	Project Planning	9.773827	Riverine, Urban or Local	Harris County
06-51-0000000324	Barker Reservoir Flood Risk Reduction and Park Project	Study to further the proposed project. FIF application information unavailable.	Fort Bend, Harris, Waller	06-02-0401040103	Project Planning	27.07598	Riverine, Urban or Local	Willow Fork Drainage District
06-51-0000000325	Beaumont Place Subdivision Drainage Improvement Phase 2	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.	Harris	06-02-0401040606	Project Planning	1.413715	Urban or Local	Harris County
06-51-0000000326	I100-WP01 Vince Bayou Watershed Planning Project Recommendation	Study to develop a BCR required for this project to become a FMP. Alt-6 Detention basin and channel widening near Strawberry Road on left bank of Vince Bayou.	Harris	06-02-0401040703, 06-02-0402040100, 06-02-0401040502	Project Planning	15.23187	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000327	Blalock Road Drainage Improvement Project	Study to further the proposed project that includes increasing the capacity of the drainage system with a 9'x9' RCB to replace dual 36-inch RCP along the east side of the road and an open ditch with driveway culverts on the west side of the road.	Harris	06-02-0401040302, 06-02-0401040303	Project Planning	6.697842	Urban or Local	City of Piney Point Village
06-51-0000000328	Brays Bayou - Keegans Bayou (D118-00-00) Flood Risk Reduction	Study to develop a BCR required for this project to become a FMP. A project could reduce the risk flooding for over 2,500 structures and could reduce the frequency and duration of flooding along about 100 miles of roadway.	Fort Bend, Harris	06-02-0401040401	Project Planning	22.87764	Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000329	I100-WP06 for Vince Bayou Watershed Planning Project	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Right-of-way acquisition, design, and construction of a stormwater detention basin and channel widening near Strawberry Road and Young Street.	Harris	06-02-0401040703, 06-02-0402040100, 06-02-0401040502	Project Planning	15.23187	Riverine, Coastal	Harris County
06-51-0000000330	I100-WP10 for Vince Bayou Watershed Planning Project	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Right-of-way acquisition, Design, and Construction of Two Stormwater Detention Basins near Westside Dr. and Westside. Ct.	Harris	06-02-0401040703, 06-02-0402040100, 06-02-0401040502	Project Planning	15.23187	Riverine, Coastal	Harris County
06-51-0000000331	I100-WP07 for Vince Bayou Watershed Planning Project	Study to develop a BCR needed for this project to become a FMP. Pasadena (CIP) Street Lowering (Various). Right-of-way acquisition, Design, and Construction of Stormwaters Detention Basin and construction of Culverts near Pasadena Blvd..	Harris	06-02-0401040703, 06-02-0402040100, 06-02-0401040502	Project Planning	15.23187	Riverine, Coastal	Harris County
06-51-0000000332	I100-WP11 for Vince Bayou Watershed Planning Project	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Right-of-way acquisition, Design, and Construction of Stormwater Detention Basins near Spencer Hwy. and Tulip Street.	Harris	06-02-0401040703, 06-02-0402040100, 06-02-0401040502	Project Planning	15.23187	Riverine, Coastal	Harris County

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000322	Jackson Bayou Watershed Planning Project- Immediate: First Street Crossing Mitigation	Harris County Flood Control District, Harris	No	30000			111	83	495	8
06-51-0000000323	B106-WP01 & WP02 for Armand Bayou Watershed	La Porte, Pasadena, Harris County Flood Control District, Harris	No	30000			473	344	1478	0
06-51-0000000324	Barker Reservoir Flood Risk Reduction and Park Project	Houston, Harris County Flood Control District, Harris	No	30000			115	105	252	2
06-51-0000000325	Beaumont Place Subdivision Drainage Improvement Phase 2	Houston, Harris County Flood Control District, Harris	No	30000			103	94	679	3
06-51-0000000326	I100-WP01 Vince Bayou Watershed Planning Project Recommendation	Pasadena, Harris County Flood Control District, Harris	No	30000			1144	842	4840	11
06-51-0000000327	Blalock Road Drainage Improvement Project	Houston, Harris County Flood Control District, Harris	No	30000			35	25	258	1
06-51-0000000328	Brays Bayou - Keegans Bayou (D118-00-00) Flood Risk Reduction	Fort Bend, Harris County Flood Control District, Harris	No	30000			2549	2257	19524	27
06-51-0000000329	I100-WP06 for Vince Bayou Watershed Planning Project	Pasadena, Harris County Flood Control District, Harris	No	30000			1144	842	4840	11
06-51-0000000330	I100-WP10 for Vince Bayou Watershed Planning Project	Pasadena, Harris County Flood Control District, Harris	No	30000			1144	842	4840	11
06-51-0000000331	I100-WP07 for Vince Bayou Watershed Planning Project	Pasadena, Harris County Flood Control District, Harris	No	30000			1144	842	4840	11
06-51-0000000332	I100-WP11 for Vince Bayou Watershed Planning Project	Pasadena, Harris County Flood Control District, Harris	No	30000			1144	842	4840	11

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000322	Jackson Bayou Watershed Planning Project- Immediate: First Street Crossing Mitigation	0	0	1.399999976	1.75
06-51-0000000323	B106-WP01 & WP02 for Armand Bayou Watershed	0	0	7.050000191	20.94000053
06-51-0000000324	Barker Reservoir Flood Risk Reduction and Park Project	0	0	1.409999967	20.45999908
06-51-0000000325	Beaumont Place Subdivision Drainage Improvement Phase 2	0	0	1.590000033	4.21999979
06-51-0000000326	I100-WP01 Vince Bayou Watershed Planning Project Recommendation	1	1	19.06999969	1.870000005
06-51-0000000327	Blalock Road Drainage Improvement Project	0	0	0.289999992	0
06-51-0000000328	Brays Bayou - Keegans Bayou (D118-00-00) Flood Risk Reduction	0	0	39.29000092	3.390000105
06-51-0000000329	I100-WP06 for Vince Bayou Watershed Planning Project	1	1	19.06999969	1.870000005
06-51-0000000330	I100-WP10 for Vince Bayou Watershed Planning Project	1	1	19.06999969	1.870000005
06-51-0000000331	I100-WP07 for Vince Bayou Watershed Planning Project	1	1	19.06999969	1.870000005
06-51-0000000332	I100-WP11 for Vince Bayou Watershed Planning Project	1	1	19.06999969	1.870000005

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000333	Carpenters Planning Study Cloverleaf Community Flood Risk Reduction Project (Phase 1 and 2)	Study to develop a BCR required for this project to become a FMP. Drainage system upgrade using combination of 9'x7' RCB spanning 3,000' and a 109 acre-feet detention facility providing drainage relief for this portion of the Cloverleaf Community.	Harris	06-02-0401040702, 06-02-0401040606	Project Planning	0.7363	Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000334	Goose Creek Flood Risk Reduction Phase 1	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. 1.65 Miles of Goose Creek channel modifications (Downstream of IH 10) with proposed detention basin "J".	Harris	06-02-0401040705, 06-02-0401040706	Project Planning	34.83194	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000335	Goose Creek Flood Risk Reduction Phase 2	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. 1.00 Mile of Goose Creek channel modifications (Upstream of IH 10) with proposed detention basin "I".	Harris	06-02-0401040705, 06-02-0401040706	Project Planning	34.83194	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000336	Goose Creek Flood Risk Reduction Phase 3	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Local channel modifications and crossing structure improvements along O117 and O126.	Harris	06-02-0401040705	Project Planning	34.83194	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000337	Spring Creek Watershed Plan-Recommended Alternative for PA-02: J131-01-00 Storm Sewer improvements & channel modification	Study to develop a BCR required for this project to become a FMP. Channel modifications along J131-01 & storm sewer improvements under Zion Road, reduces sheet flow by providing positive drainage outfall for ~200 ac of land.	Harris	06-02-0401020209, 06-02-0401020210, 06-02-0401020205	Project Planning	4.697508	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000338	Willow Creek Watershed Plan - Immediate: Selective Clearing BNRR to Mouth	Study to develop a BCR required for this project to become a FMP. Selective clearing from BNRR to mouth to increase riverine storm water conveyance, maintain tree canopy & veg. diversity, minimize impact on riparian & uplands habitats.	Harris	06-02-0401020106, 06-02-0401020209, 06-02-0401020210, 06-02-0401020212	Project Planning	27.81789	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000339	Willow Creek Watershed Plan - M120 Detention/Preservation Site	Study to develop BCA to become a FMP. Pursue purchase of property for regional detention, floodplain preservation, & habitat preservation.	Harris	06-02-0401020212, 06-02-0401020106, 06-02-0401020210, 06-02-0401020209, 06-02-0401020205, 06-02-0401020105	Project Planning	55.3661	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000340	Willow Creek Watershed Plan - FM2920 Stormwater Detention Basin	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Proposed 826 acre-feet detention basin located near FM 2920 crossing of Willow Creek.	Harris	06-02-0401020212, 06-02-0401020106, 06-02-0401020210, 06-02-0401020209, 06-02-0401020205, 06-02-0401020105	Project Planning	55.3661	Riverine	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000333	Carpenters Planning Study Cloverleaf Community Flood Risk Reduction Project (Phase 1 and 2)	Houston, Harris County Flood Control District, Harris	No	30000			0	0	0	0
06-51-0000000334	Goose Creek Flood Risk Reduction Phase 1	Baytown, Harris County Flood Control District, Harris	No	30000			1882	1508	5995	64
06-51-0000000335	Goose Creek Flood Risk Reduction Phase 2	Baytown, Harris County Flood Control District, Harris	No	30000			1882	1508	5995	64
06-51-0000000336	Goose Creek Flood Risk Reduction Phase 3	Baytown, Harris County Flood Control District, Harris	No	30000			1882	1508	5995	64
06-51-0000000337	Spring Creek Watershed Plan-Recommended Alternative for PA-02: J131-01-00 Storm Sewer improvements & channel modification	Tomball, Harris County Flood Control District, Harris	No	30000			15	12	25	1
06-51-0000000338	Willow Creek Watershed Plan - Immediate: Selective Clearing BNRR to Mouth	Houston, Harris County Flood Control District, Harris	No	30000	2018 Bond Fund		860	698	1435	6
06-51-0000000339	Willow Creek Watershed Plan - M120 Detention/Preservation Site	Houston, Harris County Flood Control District, Harris	No	30000	2018 Bond Fund		1317	1019	2575	7
06-51-0000000340	Willow Creek Watershed Plan - FM2920 Stormwater Detention Basin	Houston, Harris County Flood Control District, Harris	No	30000			1317	1019	2575	7

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000333	Carpenters Planning Study Cloverleaf Community Flood Risk Reduction Project (Phase 1 and 2)	0	0	0	0
06-51-0000000334	Goose Creek Flood Risk Reduction Phase 1	1	1	32.83000183	73.12999725
06-51-0000000335	Goose Creek Flood Risk Reduction Phase 2	1	1	32.83000183	73.12999725
06-51-0000000336	Goose Creek Flood Risk Reduction Phase 3	1	1	32.83000183	73.12999725
06-51-0000000337	Spring Creek Watershed Plan-Recommended Alternative for PA-02: J131-01-00 Storm Sewer improvements & channel modification	1	1	0.810000002	0.600000024
06-51-0000000338	Willow Creek Watershed Plan - Immediate: Selective Clearing BNRR to Mouth	5	5	11.35000038	15.98999977
06-51-0000000339	Willow Creek Watershed Plan - M120 Detention/Preservation Site	8	8	36.02999878	68.13999939
06-51-0000000340	Willow Creek Watershed Plan - FM2920 Stormwater Detention Basin	8	8	36.02999878	68.13999939

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000341	Willow Creek Watershed Plan - Kuykendahl Basin	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Proposed 727 acre-feet detention basin located near Kuykendahl Road crossing of Willow Creek.	Harris	06-02-0401020212, 06-02-0401020106, 06-02-0401020210, 06-02-0401020209, 06-02-0401020205, 06-02-0401020105	Project Planning	55.3661	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000342	Willow Creek Watershed Plan - M121 Basin Stormwater Detention Basin	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Proposed 1010 acre-feet detention basin located near M121 tributary.	Harris	06-02-0401020212, 06-02-0401020106, 06-02-0401020210, 06-02-0401020209, 06-02-0401020205, 06-02-0401020105	Project Planning	55.3661	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000343	Galveston Bay Watershed Plan- PA01 (N+6) Channel & Crossing Improvements	Develop BCA to become FMP. Channel deepening from N Broadway St to N Utah St, convert open channel segment to closed conduit w/ 8'x5' concrete boxes b/w N Utah St & Main St, replace concrete pipe w/ dual 8'x5' concrete box culvert outfall to F212.	Harris	06-02-0402040100	Project Planning	1.133011	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000344	White Oak Bayou - Design and Construction of Woodland Trails Stormwater Detention Basin	Study to develop a BCA to become FMP. This stormwater detention basin compliments the federal project on White Oak Bayou which will reduce the risk of flooding for 1,800 structures in an Atlas 14 1% rainfall event.	Harris	06-02-0401020104, 06-02-0401020106, 06-02-0401040601, 06-02-0401040302, 06-02-0401040604, 06-02-0401040303, 06-02-0401040304, 06-02-0401040301	Project Planning	79.44794	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000345	Spring Gully Watershed Planning Project- Project Phase I	Develop BCA to become FMP. 108 ac-ft of detention storage. Basin A w/ 95 ac-ft of storage, 10 ft depth, inlet & outlet structures consist of 2 culverts & weir. Basin B w/ 13 ac-ft of storage, 10.5 ft depth, inlet & outlet structures of culvert & weir.	Harris	06-02-0401040705	Project Planning	3.312866	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000346	Spring Gully Watershed Planning Project- Project Phase II	Develop BCA to become a FMP. Independent of Phase I. Phase II includes addition of Stormwater Detention Basin C, with 80 acre-feet of detention storage w/ 9.5 ft depth & an inlet and outlet structure consisting of a culvert & a weir.	Harris	06-02-0401040705	Project Planning	3.312866	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000347	Spring Gully Watershed Planning Project- Project Phase III	Complete after phase 2. Relief channel intended to outfall into Stormwater Detention Basin C from Phase 2. Consists of trapezoidal 850-foot channel with cross culvert sized at Prairie Street. Upstream of the culvert crossing, the bottom width is 8 ft.	Harris	06-02-0401040705	Project Planning	3.312866	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000348	Galveston Bay - Right-of-Way Acquisition, Design and Construction of General Drainage Improvements Along F216-00-00	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. The project could reduce the risk of flooding for more than 450 structures in an Atlas 14 1% rainfall event.	Harris	06-02-0401040706, 06-02-0402040100	Project Planning	2.909502	Riverine, Coastal	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000341	Willow Creek Watershed Plan - Kuykendahl Basin	Houston, Harris County Flood Control District, Harris	No	30000			1317	1019	2575	7
06-51-0000000342	Willow Creek Watershed Plan - M121 Basin Stormwater Detention Basin	Houston, Harris County Flood Control District, Harris	No	30000			1317	1019	2575	7
06-51-0000000343	Galveston Bay Watershed Plan- PA01 (N+6) Channel & Crossing Improvements	La Porte, Morgan's Point, Harris County Flood Control District, Harris	No	30000			259	234	562	7
06-51-0000000344	White Oak Bayou - Design and Construction of Woodland Trails Stormwater Detention Basin	Houston, Harris County Flood Control District, Harris	No	30000			11091	9574	60414	86
06-51-0000000345	Spring Gully Watershed Planning Project- Project Phase I	Harris County Flood Control District, Harris	No	30000			346	266	588	0
06-51-0000000346	Spring Gully Watershed Planning Project- Project Phase II	Harris County Flood Control District, Harris	No	30000			346	266	588	0
06-51-0000000347	Spring Gully Watershed Planning Project- Project Phase III	Harris County Flood Control District, Harris	No	30000			346	266	588	0
06-51-0000000348	Galveston Bay - Right-of-Way Acquisition, Design and Construction of General Drainage Improvements Along F216-00-00	La Porte, Harris County Flood Control District, Harris	No	30000			384	256	800	7

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000341	Willow Creek Watershed Plan - Kuykendahl Basin	8	8	36.02999878	68.13999939
06-51-0000000342	Willow Creek Watershed Plan - M121 Basin Stormwater Detention Basin	8	8	36.02999878	68.13999939
06-51-0000000343	Galveston Bay Watershed Plan- PA01 (N+6) Channel & Crossing Improvements	0	0	5.099999905	0.140000001
06-51-0000000344	White Oak Bayou - Design and Construction of Woodland Trails Stormwater Detention Basin	0	0	163.8099976	24.30999947
06-51-0000000345	Spring Gully Watershed Planning Project- Project Phase I	0	0	2.420000076	0
06-51-0000000346	Spring Gully Watershed Planning Project- Project Phase II	0	0	2.420000076	0
06-51-0000000347	Spring Gully Watershed Planning Project- Project Phase III	0	0	2.420000076	0
06-51-0000000348	Galveston Bay - Right-of-Way Acquisition, Design and Construction of General Drainage Improvements Along F216-00-00	0	0	10.14999962	0.670000017

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000349	Galveston Bay - Right-of-Way Acquisition, Design and Construction of General Drainage Improvements Along F101-06-00	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. The project could reduce the risk of flooding for over 40 structures in an Atlas 14 1% rainfall event.	Harris	06-02-0401040706, 06-02-0402040100	Project Planning	2.014503	Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000350	Galveston Bay Watershed Plan- PA04 (S+4) Crossing Improvements	Recommended alternative directly addresses need for improved channel conveyance by increasing the size of the crossings at El Jardin Dr and Youpon Dr. to 8'x5' box culverts.	Chambers, Harris	06-02-0402040100	Project Planning	0.499986	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000353	TC Jester Detention Basin	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Construction of a 25 acre stormwater detention basin. Estimated construction cost is $10,047,910. This application is requesting $10,000,000.00 of these funds.	Harris	06-02-0401020106, 06-02-0401020107, 06-02-0401020210, 06-02-0401020212, 06-02-0401020213, 06-02-0401040601, 06-02-0401040602, 06-02-0401040603	Project Planning	92.80616	Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000354	Halls Bayou Drainage Project Bond C-26 & C-27	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.	Harris	06-02-0401040605, 06-02-0401040601, 06-02-0401040302, 06-02-0401040604, 06-02-0401040606, 06-02-0401040304, 06-02-0401040603, 06-02-0401040701	Project Planning	1.569553	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000355	Halls Bayou Drainage Project Bond C-01	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.	Harris	06-02-0401040605, 06-02-0401040601, 06-02-0401040302, 06-02-0401040604, 06-02-0401040606, 06-02-0401040304, 06-02-0401040603, 06-02-0401040701	Project Planning	6.011309	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000356	Westador Stormwater Detention Basin	Study to develop a BCR required for this project to become a FMP. The Westador Detention Basin is a proposed detention mitigation project within the Cypress Creek Watershed and located south of Cypress Creek and east and west of K141-00-00.	Harris	06-02-0401020106, 06-02-0401020107, 06-02-0401020210, 06-02-0401020212, 06-02-0401020213, 06-02-0401040601, 06-02-0401040602, 06-02-0401040603	Project Planning	92.80616	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000349	Galveston Bay - Right-of-Way Acquisition, Design and Construction of General Drainage Improvements Along F101-06-00	La Porte, Harris County Flood Control District, Harris	No	30000			0	0	0	0
06-51-0000000350	Galveston Bay Watershed Plan- PA04 (S+4) Crossing Improvements	Seabrook, Pasadena, Harris County Flood Control District, Harris	No	30000			190	185	390	0
06-51-0000000353	TC Jester Detention Basin	Houston, Harris County Flood Control District, Harris	No	30000			2993	2412	11450	51
06-51-0000000354	Halls Bayou Drainage Project Bond C-26 & C-27	Houston, Harris County Flood Control District, Harris	No	30000			1431	1009	4495	8
06-51-0000000355	Halls Bayou Drainage Project Bond C-01	Houston, Harris County Flood Control District, Harris	No	30000			3186	2295	7827	13
06-51-0000000356	Westador Stormwater Detention Basin	Houston, Harris County Flood Control District, Harris	No	30000			2993	2412	11450	51

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000349	Galveston Bay - Right-of-Way Acquisition, Design and Construction of General Drainage Improvements Along F101-06-00	0	0	0	0
06-51-0000000350	Galveston Bay Watershed Plan- PA04 (S+4) Crossing Improvements	0	0	2.769999981	0.419999987
06-51-0000000353	TC Jester Detention Basin	4	4	59.86000061	44.08000183
06-51-0000000354	Halls Bayou Drainage Project Bond C-26 & C-27	1	1	9.649999619	0
06-51-0000000355	Halls Bayou Drainage Project Bond C-01	1	1	31.84000015	0.230000004
06-51-0000000356	Westador Stormwater Detention Basin	4	4	59.86000061	44.08000183

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000357	Cypress Creek Implementation Plan - Various Detention Sites	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. The Implementation Plan identifies that approximately 14,000 acre-feet of stormwater detention volume across 23 different sites reducing flooding risk.	Harris	06-02-0401020104, 06-02-0401020106, 06-02-0401020105, 06-02-0401020107, 06-02-0401020210, 06-02-0401020213, 06-02-0401040601, 06-02-0401040201, 06-02-0401040301, 06-02-0401040602	Project Planning	118.3625	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000358	Little Cypress Creek - Management, Right-of-Way Acquisition, Design and Construction of the Little Cypress Creek Frontier Program	Study to develop a BCR required for this to become a FMP. The Little Cypress Creek Frontier program will reduce the risk of flooding and include detention, sediment control, vegetation management and other flood risk management projects.	Harris	06-02-0401020103, 06-02-0401020104, 06-02-0401020106, 06-02-0401020101, 06-02-0401020105, 06-02-0401020205, 06-02-0401020210	Project Planning	52.09853	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000360	G103-38-00 (Kingwood Diversion Ditch)	Study to develop a BCR required for this to become a FMP. Improvements to the Kingwood Diversion Ditch include channel modifications, flow diversion from Bens Branch, bridge replacements, as well as a new outfall to the West Fork San Jacinto River.	Harris, Montgomery	06-02-0401030110, 06-02-0401010501	Project Planning	7.983214	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000361	G103-80-03.1B (Taylor Gully)	Study to develop a BCR required for this project to become a FMP. Improvements to Taylor Gully include two miles of channel conveyance improvements to the upper limits of Taylor Gully and a concrete low flow structure.	Harris, Montgomery	06-02-0401010501, 06-02-0401030110, 06-02-0401030402	Project Planning	2.050061	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000362	Goose Creek O119-00-00-P001 (Alt 2A1)	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Construction of channel modifications and in-line stormwater detention along O119 to facilitate Harris County drainage improvements in Highland Mobile Estates.	Harris	06-02-0401040705, 06-02-0402030104	Project Planning	0.2278	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000363	Goose Creek O119-00-00-P001 (Alt 2A3)	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Secondary option for the recommended alternative with less benefits and project cost.	Harris	06-02-0401040705, 06-02-0402030104	Project Planning	0.2278	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000364	Sims Bayou C116 Storm Sewer Improvement (C116-00-00-P001) From Mykawa Road to Telephone Road	Study to develop a BCR required for this project to become a FMP. To increase the system C116 capacity, Alternative 1 adds capacity to the C116 system trunkline through an additional parallel trunkline, from Dixie Drive to Sims Bayou.	Harris	06-02-0401040502	Project Planning	1.392267	Urban or Local	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000357	Cypress Creek Implementation Plan - Various Detention Sites	Houston, Harris County Flood Control District, Harris	No	30000			4098	3397	14047	70
06-51-0000000358	Little Cypress Creek - Management, Right-of-Way Acquisition, Design and Construction of the Little Cypress Creek Frontier Program	Houston, Harris County Flood Control District, Harris	No	30000			1213	1029	2734	14
06-51-0000000360	G103-38-00 (Kingwood Diversion Ditch)	Houston, Harris County Flood Control District, Harris	No	30000			295	113	1119	7
06-51-0000000361	G103-80-03.1B (Taylor Gully)	Houston, Harris County Flood Control District, Harris	No	30000			582	582	1517	0
06-51-0000000362	Goose Creek O119-00-00-P001 (Alt 2A1)	Houston, Harris County Flood Control District, Harris	No	30000			0	0	0	0
06-51-0000000363	Goose Creek O119-00-00-P001 (Alt 2A3)	Houston, Harris County Flood Control District, Harris	No	30000			0	0	0	0
06-51-0000000364	Sims Bayou C116 Storm Sewer Improvement (C116-00-00-P001) From Mykawa Road to Telephone Road	Houston, Harris County Flood Control District, Harris	No	30000			0	0	0	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000357	Cypress Creek Implementation Plan - Various Detention Sites	3	3	80.19999695	75.16999817
06-51-0000000358	Little Cypress Creek - Management, Right-of-Way Acquisition, Design and Construction of the Little Cypress Creek Frontier Program	4	4	18.59000015	192.0200043
06-51-0000000360	G103-38-00 (Kingwood Diversion Ditch)	0	0	4.849999905	1.169999957
06-51-0000000361	G103-80-03.1B (Taylor Gully)	1	1	8.380000114	0.430000007
06-51-0000000362	Goose Creek O119-00-00-P001 (Alt 2A1)	0	0	0	0
06-51-0000000363	Goose Creek O119-00-00-P001 (Alt 2A3)	0	0	0	0
06-51-0000000364	Sims Bayou C116 Storm Sewer Improvement (C116-00-00-P001) From Mykawa Road to Telephone Road	0	0	0	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000365	Greens Bayou (P100-00-00) Mid-Reach Channel Conveyance Improvements From John F. Kennedy Blvd to Veterans Memorial Drive (Ultimate Project (Alternative 3))	Study to develop a BCR required for this project to become a FMP. 2,000 ac-ft proposed Hardy stormwater detention basin and channel conveyance improvements throughout the Green's Bayou Mid-Reach (From John F. Kennedy Blvd to Veterans Memorial Drive).	Harris	06-02-0401010502, 06-02-0401010501, 06-02-0401020106, 06-02-0401020107, 06-02-0401040605, 06-02-0401040703, 06-02-0401040601, 06-02-0401040702, 06-02-0401040302, 06-02-0401040604, 06-02-0401040606, 06-02-0401040301, 06-02-0401040602, 06-02-0401040603, 06-02-0401040701	Project Planning	13.71585	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000366	Greens Bayou - Planning, Right-of-Way Acquisition, Design and Construction of Channel Conveyance Improvements along P138-01-01	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Potential federal funded project, the risk of flooding could be reduced for approximately 100 structures in a pre-Atlas 1% rainfall event.	Harris	06-02-0401040604, 06-02-0401040603	Project Planning	1.061417	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000367	Cedar Bayou Flood Risk Reduction Study - Property Acquisition in segment from SH 146 to Galveston Bay along Cedar Bayou (Q100-00-00)	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Property Acquisition in segment from SH 146 to Galveston Bay along Cedar Bayou.	Chambers, Harris	06-02-0401040706, 06-02-0402030106, 06-02-0402030200	Project Planning	28.41582	Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000368	Cedar Bayou Flood Risk Reduction Study - Q130 Channel improvements from Crosby Eastgate Rd. to Q100 Confluence	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Cedar Bayou Flood Risk Reduction Study - Q130 Channel improvements from Crosby Eastgate Rd. to Q100 Confluence.	Harris, Liberty	06-02-0401030205, 06-02-0401040705, 06-02-0401040706, 06-02-0401040704, 06-02-0402030105, 06-02-0402030104, 06-02-0402030103, 06-02-0402030106, 06-02-0402030102, 06-02-0402030200, 06-02-0402030101	Project Planning	3.518585	Riverine	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000365	Greens Bayou (P100-00-00) Mid-Reach Channel Conveyance Improvements From John F. Kennedy Blvd to Veterans Memorial Drive (Ultimate Project (Alternative 3))	Harris County Flood Control District, Harris	No	30000			3244	2190	42758	60
06-51-0000000366	Greens Bayou - Planning, Right-of-Way Acquisition, Design and Construction of Channel Conveyance Improvements along P138-01-01	Harris County Flood Control District, Harris	No	30000			41	35	133	0
06-51-0000000367	Cedar Bayou Flood Risk Reduction Study - Property Acquisition in segment from SH 146 to Galveston Bay along Cedar Bayou (Q100-00-00)	Harris, Harris County Flood Control District, Chambers	No	30000			230	174	774	7
06-51-0000000368	Cedar Bayou Flood Risk Reduction Study - Q130 Channel improvements from Crosby Eastgate Rd. to Q100 Confluence	Liberty, Harris, Harris County Flood Control District, Chambers	No	30000			174	138	241	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000365	Greens Bayou (P100-00-00) Mid-Reach Channel Conveyance Improvements From John F. Kennedy Blvd to Veterans Memorial Drive (Ultimate Project (Alternative 3))	0	0	70.91999817	14.15999985
06-51-0000000366	Greens Bayou - Planning, Right-of-Way Acquisition, Design and Construction of Channel Conveyance Improvements along P138-01-01	0	0	0.589999974	0.330000013
06-51-0000000367	Cedar Bayou Flood Risk Reduction Study - Property Acquisition in segment from SH 146 to Galveston Bay along Cedar Bayou (Q100-00-00)	0	0	7.630000114	47.40999985
06-51-0000000368	Cedar Bayou Flood Risk Reduction Study - Q130 Channel improvements from Crosby Eastgate Rd. to Q100 Confluence	0	0	3.140000105	141.0899963

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000369	Cedar Bayou Flood Risk Reduction Study - Property Acquisition in segment from IH-10 to SH 146 along Cedar Bayou (Q100-00-00)	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Property Acquisition in segment from IH-10 to SH 146 along Cedar Bayou.	Chambers, Harris	06-02-0401040706, 06-02-0402030105, 06-02-0402030106	Project Planning	18.71407	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000370	City of Pasadena - Hurricane Harvey Drainage Mitigation Project 1	Further study to develop & elevate project into a FMP. Previously submitted by the Flood Infrastructure Fund (FIF) but was not approved at the time. Projects included in this application will be updated to include BCA and Atlas 14 rainfall consideration.	Harris	06-02-0402040100, 06-02-0401040502, 06-02-0401040703	Project Planning	44.58406	Riverine, Coastal	City of Pasadena
06-51-0000000371	City of Pasadena - Hurricane Harvey Drainage Mitigation Project 2	Further study to develop & elevate project into a FMP. Previously submitted by the Flood Infrastructure Fund (FIF) but was not approved at the time. Projects included in this application will be updated to include BCA and Atlas 14 rainfall consideration.	Harris	06-02-0402040100, 06-02-0401040502, 06-02-0401040703	Project Planning	44.58406	Riverine, Coastal	City of Pasadena
06-51-0000000372	City of Pasadena - Hurricane Harvey Drainage Mitigation Project 3	Further study to develop & elevate project into a FMP. Previously submitted by the Flood Infrastructure Fund (FIF) but was not approved at the time. Projects included in this application will be updated to include BCA and Atlas 14 rainfall consideration.	Harris	06-02-0402040100, 06-02-0401040502, 06-02-0401040703	Project Planning	44.58406	Riverine, Coastal	City of Pasadena
06-51-0000000373	City of Tomball Drainage Improvements	Study to the drainage project for the City of Tomball is comprised of building storm sewer systems and channel conveyance to enable flood waters to be removed from portions of the city bounded by Holderrieth Road, SH 249, UPRR, and FM 2920.	Harris, Montgomery	06-02-0401020106, 06-02-0401020205, 06-02-0401020210, 06-02-0401020209	Project Planning	13.04089	Urban or Local	City of Tomball
06-51-0000000374	Cedar Bayou Flood Risk Reduction Study - Q128 Channel Improvements from US 90 to Q100 Confluence	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Cedar Bayou channel improvements from US 90 to Confluence with Q100.	Harris	06-02-0401030205, 06-02-0401040705, 06-02-0401040706, 06-02-0401040704, 06-02-0402030105, 06-02-0402030104, 06-02-0402030103, 06-02-0402030106, 06-02-0402030102, 06-02-0402030200, 06-02-0402030101	Project Planning	4.909397	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000369	Cedar Bayou Flood Risk Reduction Study - Property Acquisition in segment from IH-10 to SH 146 along Cedar Bayou (Q100-00-00)	Chambers, Baytown, Harris, Harris County Flood Control District	No	30000			319	260	729	0
06-51-0000000370	City of Pasadena - Hurricane Harvey Drainage Mitigation Project 1	Pasadena, Harris County Flood Control District, Harris, Liberty County Water Control District 1	No	30000			3591	2839	18187	56
06-51-0000000371	City of Pasadena - Hurricane Harvey Drainage Mitigation Project 2	Pasadena, Harris County Flood Control District, Harris, Liberty County Water Control District 1	No	30000			3591	2839	18187	56
06-51-0000000372	City of Pasadena - Hurricane Harvey Drainage Mitigation Project 3	Pasadena, Harris County Flood Control District, Harris, Liberty County Water Control District 1	No	30000			3591	2839	18187	56
06-51-0000000373	City of Tomball Drainage Improvements	Tomball, Harris County Flood Control District, Harris	No	30000			47	29	457	0
06-51-0000000374	Cedar Bayou Flood Risk Reduction Study - Q128 Channel Improvements from US 90 to Q100 Confluence	Liberty, Harris County Flood Control District, Harris	No	30000			142	81	178	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000369	Cedar Bayou Flood Risk Reduction Study - Property Acquisition in segment from IH-10 to SH 146 along Cedar Bayou (Q100-00-00)	0	0	5.260000229	25.32999992
06-51-0000000370	City of Pasadena - Hurricane Harvey Drainage Mitigation Project 1	6	6	73.84999847	81.94999695
06-51-0000000371	City of Pasadena - Hurricane Harvey Drainage Mitigation Project 2	6	6	73.84999847	81.94999695
06-51-0000000372	City of Pasadena - Hurricane Harvey Drainage Mitigation Project 3	6	6	73.84999847	81.94999695
06-51-0000000373	City of Tomball Drainage Improvements	0	0	3.720000029	4.599999905
06-51-0000000374	Cedar Bayou Flood Risk Reduction Study - Q128 Channel Improvements from US 90 to Q100 Confluence	0	0	6.25	160.9700012

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000376	Cedar Bayou Flood Risk Reduction Study - Channel improvements from US 90 to FM 1942	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Cedar Bayou channel improvements from US 90 to FM 1942.	Chambers, Harris, Liberty	06-02-0401030205, 06-02-0401040705, 06-02-0401040706, 06-02-0401040704, 06-02-0402030105, 06-02-0402030104, 06-02-0402030103, 06-02-0402030106, 06-02-0402030102, 06-02-0402030200, 06-02-0402030101	Project Planning	46.6426	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000379	Cedar Bayou Flood Risk Reduction Study - Channel improvements upstream of FM 1960	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Cedar Bayou channel improvements upstream of FM 1960.	Harris, Liberty	06-02-0401030205, 06-02-0401040705, 06-02-0401040706, 06-02-0401040704, 06-02-0402030105, 06-02-0402030104, 06-02-0402030103, 06-02-0402030106, 06-02-0402030102, 06-02-0402030200, 06-02-0402030101	Project Planning	23.00815	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000384	Houston Braeburn Glen Area Flood Mitigation	Further study of a proposed project that includes upsizing of the existing stormwater system with new pipes, inlets, and manholes. Lateral improvement will be completed on Mahoning Drive and Valley View Lane.	Fort Bend, Harris	06-02-0401040401	Project Planning	95.57072	Urban or Local	City of Houston
06-51-0000000388	Roman Forest Boulevard Bridge Elevation Project	Further study of this project involves the study, design, elevation, and replacement of the Roman Forest Boulevard Bridge to mitigate the risks associated with storms and riverine flooding for the approximate 15,000 citizens.	Montgomery	06-02-0401030109, 06-02-0401030402	Project Planning	2.19068	Riverine	Montgomery County
06-51-0000000389	White Oak - SPT and E116 (E116-00-00) Improvements : PA01 thru PA-05	Study to develop a Benefit Cost Analysis needed for these projects to become a FMP. The "E116-00-00 Flood Reduction Feasibility Study" was completed in March 2022 and provides a decrease riverine and urban flood risk in the area.	Harris	06-02-0401040302, 06-02-0401040304	Project Planning	6.897598	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000394	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-08-00	Develop BCA to become a FMP. This project could reduce the risk of flooding for over 210 structures and could reduce the 1% rainfall event for over 170 acres as part of the Halls Ahead Bond Implementation Program.	Harris	06-02-0401040605, 06-02-0401040601, 06-02-0401040302, 06-02-0401040604, 06-02-0401040606, 06-02-0401040304, 06-02-0401040603, 06-02-0401040701	Project Planning	7.29283	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000376	Cedar Bayou Flood Risk Reduction Study - Channel improvements from US 90 to FM 1942	Liberty, Harris County Flood Control District, Harris, Liberty County Water Control District 1	No	30000			240	124	291	0
06-51-0000000379	Cedar Bayou Flood Risk Reduction Study - Channel improvements upstream of FM 1960	Liberty, Harris County Flood Control District, Harris, Liberty County Water Control District 1	No	30000			75	51	147	0
06-51-0000000384	Houston Braeburn Glen Area Flood Mitigation	Houston, Harris County Flood Control District, Harris	No	30000			530	448	3328	7
06-51-0000000388	Roman Forest Boulevard Bridge Elevation Project	Montgomery, Roman Forest	No	30000			86	73	253	0
06-51-0000000389	White Oak - SPT and E116 (E116-00-00) Improvements : PA01 thru PA-05	Houston, Harris County Flood Control District, Harris	No	30000			1174	1074	3836	7
06-51-0000000394	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-08-00	Houston, Harris County Flood Control District, Harris	No	30000			39	36	64	2

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000376	Cedar Bayou Flood Risk Reduction Study - Channel improvements from US 90 to FM 1942	0	0	12.06000042	900.1400146
06-51-0000000379	Cedar Bayou Flood Risk Reduction Study - Channel improvements upstream of FM 1960	0	0	4.929999828	463.480011
06-51-0000000384	Houston Braeburn Glen Area Flood Mitigation	0	0	6.400000095	0.649999976
06-51-0000000388	Roman Forest Boulevard Bridge Elevation Project	0	0	3.180000067	0
06-51-0000000389	White Oak - SPT and E116 (E116-00-00) Improvements : PA01 thru PA-05	0	0	14.80000019	4.949999809
06-51-0000000394	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-08-00	0	0	0.680000007	0.050000001

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000395	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-09-00	Develop BCA to become a FMP. Part of Halls Ahead Bond Implementation Program, could reduce flood risk for 80+ structures, size of the floodplain by 30+ acres & frequency & duration of flooding of up to half a mile of roadway in an Atlas 14 1% event.	Harris	06-02-0401040605, 06-02-0401040601, 06-02-0401040302, 06-02-0401040604, 06-02-0401040606, 06-02-0401040304, 06-02-0401040603, 06-02-0401040701	Project Planning	5.678836	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000396	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-21-00	Develop BCA to become a FMP. Part of Halls Ahead Bond Implementation Program, could reduce flood risk for 60+ structures & floodplain by 40+ acres.	Harris	06-02-0401040605, 06-02-0401040601, 06-02-0401040302, 06-02-0401040604, 06-02-0401040606, 06-02-0401040304, 06-02-0401040603, 06-02-0401040701	Project Planning	6.308432	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000397	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-23-00 and P118-23-02	This project provides for the design and construction of flood mitigation improvements including detention basins along P118-23-00 and concrete lining P118-23-02. (2018 Bond Project C-26 & C-27)	Harris	06-02-0401040605, 06-02-0401040601, 06-02-0401040302, 06-02-0401040604, 06-02-0401040606, 06-02-0401040304, 06-02-0401040603, 06-02-0401040701	Project Planning	1.569553	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000399	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-25-00 & P118-25-01	Study to develop a BCR required for this project to become a FMP. Would reduce flood risk for 600+ structures. Facilitates future drainage projects by more outfall depth.	Harris	06-02-0401040605, 06-02-0401040601, 06-02-0401040302, 06-02-0401040604, 06-02-0401040606, 06-02-0401040304, 06-02-0401040603, 06-02-0401040701	Project Planning	6.011309	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000400	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-27-00	Develop BCA to become a FMP. Part of Halls Ahead Bond Implementation Program, could reduce flood risk for 150+ structures, size of the floodplain by 90+ acres, frequency & duration of flooding along 3+ miles of roadway in an Atlas 14 1% event.	Harris	06-02-0401040605, 06-02-0401040601, 06-02-0401040302, 06-02-0401040604, 06-02-0401040606, 06-02-0401040304, 06-02-0401040603, 06-02-0401040701	Project Planning	6.011309	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000402	Carpenters (N100-00-00) Channel Improvements	Study to develop a Cost Benefit Analysis and elevate the project to a FMP. Carpenters Bayou (N100-00-00) channel conveyance improvements.	Harris	06-02-0401040702	Project Planning	0.848557	Riverine, Urban or Local	Harris County

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000395	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-09-00	Houston, Harris County Flood Control District, Harris	No	30000			260	211	425	3
06-51-0000000396	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-21-00	Houston, Harris County Flood Control District, Harris	No	30000			3551	3128	10521	35
06-51-0000000397	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-23-00 and P118-23-02	Houston, Harris County Flood Control District, Harris	No	30000			1431	1009	4495	8
06-51-0000000399	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-25-00 & P118-25-01	Houston, Harris County Flood Control District, Harris	No	30000			3186	2295	7827	13
06-51-0000000400	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-27-00	Houston, Harris County Flood Control District, Harris	No	30000			3186	2295	7827	13
06-51-0000000402	Carpenters (N100-00-00) Channel Improvements	Houston, Harris County Flood Control District, Harris	No	30000			1158	695	3303	25

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000395	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-09-00	0	0	4.400000095	0.200000003
06-51-0000000396	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-21-00	1	1	29.31999969	1.679999948
06-51-0000000397	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-23-00 and P118-23-02	1	1	9.649999619	0
06-51-0000000399	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-25-00 & P118-25-01	1	1	31.84000015	0.230000004
06-51-0000000400	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-27-00	1	1	31.84000015	0.230000004
06-51-0000000402	Carpenters (N100-00-00) Channel Improvements	2	2	22.38999939	101.8000031

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000403	Halls Bayou - Design and Construction of a Stormwater Detention Basin in Brock Park	Develop BCA to become a FMP. Provides additional stormwater detention in support of flood damage reduction as part of the Halls Ahead Bond Implementation Program. The project will be a partnership with the City of Houston.	Harris	06-02-0401040605, 06-02-0401040601, 06-02-0401040302, 06-02-0401040604, 06-02-0401040606, 06-02-0401040304, 06-02-0401040603, 06-02-0401040701	Project Planning	44.40505	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000404	Halls Bayou - Planning, Right-Of-Way, Design and Construction of Halls Bayou Flood Risk Management Project	Develop BCA to become a FMP. Projects as part of the Halls Ahead Bond Implementation Program, could reduce the risk of flooding for more than 700 structures in an Atlas 14 1% rainfall event.	Harris	06-02-0401040605, 06-02-0401040601, 06-02-0401040302, 06-02-0401040604, 06-02-0401040606, 06-02-0401040304, 06-02-0401040603, 06-02-0401040701	Other	44.40505	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000405	Hunting Bayou Wallisville Outfall (H103-00-00) - Gellhorn Drive	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Diversion channel expansion for Gellhorn Drive flood reductions.	Harris	06-02-0401040606, 06-02-0401040701	Project Planning	4.929197	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000406	Hunting Bayou Wallisville Outfall (H103-00-00) - Denver Harbor	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Denver Harbor drainage system improvements.	Harris	06-02-0401040606, 06-02-0401040701	Project Planning	4.929197	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000407	Luce Bayou (Z100-00-00-P026) Bypass Channel	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Construction of channel bypass to provide Luce main stem upstream and local overland flooding relief.	Harris	06-02-0401010502, 06-02-0401010501, 06-02-0401030205, 06-02-0401030402, 06-02-0401040704, 06-02-0402030103, 06-02-0402030102	Project Planning	74.88733	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000412	Luce Bayou (Z100-00-00-P026) Channelization	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Construction of channel improvements along Luce main stem.	Harris	06-02-0401010502, 06-02-0401010501, 06-02-0401030205, 06-02-0401030402, 06-02-0401040704, 06-02-0402030103, 06-02-0402030102	Project Planning	74.88733	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000413	Luce Bayou (Z100-00-00-P026) Upstream Detention	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Construction of regional detention upstream of Luce Bayou, including acquiring open land north of Harris County.	Harris	06-02-0401010502, 06-02-0401010501, 06-02-0401030205, 06-02-0401030402, 06-02-0401040704, 06-02-0402030103, 06-02-0402030102	Project Planning	74.88733	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000403	Halls Bayou - Design and Construction of a Stormwater Detention Basin in Brock Park	Houston, Harris County Flood Control District, Harris	No	30000			12415	10060	34396	98
06-51-0000000404	Halls Bayou - Planning, Right-Of-Way, Design and Construction of Halls Bayou Flood Risk Management Project	Houston, Harris County Flood Control District, Harris	No	30000			12415	10060	34396	98
06-51-0000000405	Hunting Bayou Wallisville Outfall (H103-00-00) - Gellhorn Drive	Houston, Harris County Flood Control District, Harris	No	30000			396	328	9520	1
06-51-0000000406	Hunting Bayou Wallisville Outfall (H103-00-00) - Denver Harbor	Houston, Harris County Flood Control District, Harris	No	30000			396	328	9520	1
06-51-0000000407	Luce Bayou (Z100-00-00-P026) Bypass Channel	Houston, Harris County Flood Control District, Harris, Liberty County Water Control District 1	No	30000			351	300	471	0
06-51-0000000412	Luce Bayou (Z100-00-00-P026) Channelization	Houston, Harris County Flood Control District, Harris, Liberty County Water Control District 1	No	30000			351	300	471	0
06-51-0000000413	Luce Bayou (Z100-00-00-P026) Upstream Detention	Houston, Harris County Flood Control District, Harris, Liberty County Water Control District 1	No	30000			351	300	471	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000403	Halls Bayou - Design and Construction of a Stormwater Detention Basin in Brock Park	7	7	122	9.649999619
06-51-0000000404	Halls Bayou - Planning, Right-Of-Way, Design and Construction of Halls Bayou Flood Risk Management Project	7	7	122	9.649999619
06-51-0000000405	Hunting Bayou Wallisville Outfall (H103-00-00) - Gellhorn Drive	2	2	13.02999973	0.670000017
06-51-0000000406	Hunting Bayou Wallisville Outfall (H103-00-00) - Denver Harbor	2	2	13.02999973	0.670000017
06-51-0000000407	Luce Bayou (Z100-00-00-P026) Bypass Channel	0	0	6.110000134	83.47000122
06-51-0000000412	Luce Bayou (Z100-00-00-P026) Channelization	0	0	6.110000134	83.47000122
06-51-0000000413	Luce Bayou (Z100-00-00-P026) Upstream Detention	0	0	6.110000134	83.47000122

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000414	Planning Phase Study Report for Fairgreen & Eastex Freeway Forest Subdivisions Drainage Improvements 2019	Further study of Scenarios A, B and C recommended by the Fairgreen & Eastex Freeway Forest Subdivisions Drainage Report. Will develop Benefit Cost Analysis and other data required for a FMP designation.	Harris	06-02-0401040604, 06-02-0401040603	Project Planning	0.262348	Urban or Local	Harris County
06-51-0000000415	City of Manvel Rogers Rd. Drainage Improvements	Further study Alleluia Trail Rogers Rd & All Roads off Rogers drainage improvements, including storm sewer rehabilitation and ditch deepening.	Brazoria	06-02-0402040100, 06-02-0402040400, 06-02-0402040200	Project Planning	27.4094	Urban or Local	City of Manvel
06-51-0000000416	Fallbrook, Ridgepoint and Westpoint Subdivision Drainage Improvements	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.	Harris	06-02-0401040604, 06-02-0401040603	Project Planning	1.961867	Urban or Local	Harris County
06-51-0000000417	Houston Fifth Area Flood Mitigation	This unfunded CDBG-MIT application involves installing various storm sewer infrastructure in the Fifth Ward and Market Square areas within the City of Houston.	Harris	06-02-0401040701	Project Planning	40.59501	Urban or Local	City of Houston
06-51-0000000418	Houston Port Area Flood Mitigation	The project includes storm sewer improvements on nearly every street in the Pleasantville neighborhood to improve conveyance capacity and construction of a detention basin.	Harris	06-02-0401040701	Project Planning	40.59501	Urban or Local	City of Houston
06-51-0000000419	Houston Huntington Village Area Flood Mitigation	Further study to develop this project into a FMP. The project includes storm sewer improvements in the Huntington Village neighborhood to reduce structural flood loss.	Fort Bend, Harris	06-02-0401040401	Project Planning	95.57072	Urban or Local	City of Houston
06-51-0000000420	Clear Creek - Friendswood Detention Basin Near FM 528 in Friendswood	Develop BCA to become a FMP. ROW acquisition, design, and construction of 39 ac stormwater detention basin holding 500 ac-ft near FM 528; Additional solutions include buyouts, improving channel conveyance, and tributary detention.	Brazoria, Galveston, Harris	06-02-0402040200, 06-02-0402040100	Project Planning	102.4084	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000421	Clear Creek - Hughes Stormwater Detention (SWD) Basin	Develop BCA to become a FMP. Project identified in Clear Creek Federal Project study for flood management but did not yield high enough cost benefit ratio for Federal funding. Therefore, Harris and Galveston County have decided to fund this effort.	Brazoria, Galveston, Fort Bend, Harris	06-02-0401040502, 06-02-0401040501, 06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Project Planning	200.2733	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000422	Danubina Drainage Improvements	Study to further this project and develop an FMP. This CDBG-MIT application involves the installation and construction of various storm sewer and detention infrastructure.	Chambers, Harris	06-02-0402030106	Project Planning	48.3625	Urban or Local	City of Baytown
06-51-0000000423	North Alexander Drainage Improvements	Further study to develop this project into a FMP. This CDBG-MIT application involves the installation and construction of various storm sewer and detention infrastructure.	Chambers, Harris	06-02-0402030106	Project Planning	48.3625	Urban or Local	City of Baytown

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000414	Planning Phase Study Report for Fairgreen & Eastex Freeway Forest Subdivisions Drainage Improvements 2019	Harris County Flood Control District, Harris	No	30000			0	0	0	0
06-51-0000000415	City of Manvel Rogers Rd. Drainage Improvements	West Brazoria County Drainage District, Brazoria, Manvel	No	30000			1249	965	6741	8
06-51-0000000416	Fallbrook, Ridgepoint and Westpoint Subdivision Drainage Improvements	Houston, Harris County Flood Control District, Harris	No	30000			114	59	313	5
06-51-0000000417	Houston Fifth Area Flood Mitigation	Houston, Harris County Flood Control District, Harris	No	30000			6259	5217	24012	107
06-51-0000000418	Houston Port Area Flood Mitigation	Houston, Harris County Flood Control District, Harris	No	30000			6259	5217	24012	107
06-51-0000000419	Houston Huntington Village Area Flood Mitigation	Houston, Harris County Flood Control District, Harris	No	30000			32098	29504	177410	402
06-51-0000000420	Clear Creek - Friendswood Detention Basin Near FM 528 in Friendswood	Harris County Flood Control District, Harris	No	30000			14912	13121	43960	153
06-51-0000000421	Clear Creek - Hughes Stormwater Detention (SWD) Basin	Harris County Flood Control District, Harris	No	30000			27153	22909	75345	231
06-51-0000000422	Danubina Drainage Improvements	Baytown, Harris County Flood Control District, Harris	No	30000			550	440	1514	7
06-51-0000000423	North Alexander Drainage Improvements	Baytown, Harris County Flood Control District, Harris	No	30000			550	440	1514	7

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000414	Planning Phase Study Report for Fairgreen & Eastex Freeway Forest Subdivisions Drainage Improvements 2019	0	0	0.230000004	0
06-51-0000000415	City of Manvel Rogers Rd. Drainage Improvements	0	0	43.31999969	178.8099976
06-51-0000000416	Fallbrook, Ridgepoint and Westpoint Subdivision Drainage Improvements	0	0	0.600000024	0
06-51-0000000417	Houston Fifth Area Flood Mitigation	6	6	100.9300003	20.47999954
06-51-0000000418	Houston Port Area Flood Mitigation	6	6	100.9300003	20.47999954
06-51-0000000419	Houston Huntington Village Area Flood Mitigation	1	1	412.2000122	41.83000183
06-51-0000000420	Clear Creek - Friendswood Detention Basin Near FM 528 in Friendswood	9	9	264.1799927	161.8300018
06-51-0000000421	Clear Creek - Hughes Stormwater Detention (SWD) Basin	12	12	458.1400146	532.7299805
06-51-0000000422	Danubina Drainage Improvements	0	0	13.82999992	98.25
06-51-0000000423	North Alexander Drainage Improvements	0	0	13.82999992	98.25

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000424	City of Friendswood - Clear Creek Inline & Offline Detention - Bay Area Blvd. Phase I	This project, which includes terraces, detention, and a trail network, will reduce water surface elevations on Clear Creek within the City of Friendswood and will make the Blackhawk Wastewater Treatment Facility more resilient.	Galveston, Harris	06-02-0402040200, 06-02-0402040100	Project Planning	20.82916	Urban or Local	City of Friendswood
06-51-0000000425	Clear Creek - Rehabilitation of the A214-00-00 channel to Restore Channel Conveyance Capacity	Major maintenance to restore channel conveyance capacity.	Galveston, Harris	06-02-0401040502, 06-02-0401040501, 06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Project Planning	4.617339	Riverine, Urban or Local	Harris County Flood Control District (HCFCD)
06-51-0000000426	Sawdust Road Bridge Elevation Project	Further study of study, design, elevation, & replacement of the Sawdust Road Bridge to mitigate the risks associated with riverine flooding for the citizens residing in the Grogan's Point and Timberlakes - Timberridge Subdivisions.	Harris, Montgomery	06-02-0401010402, 06-02-0401010404, 06-02-0401020107, 06-02-0401020210, 06-02-0401020209, 06-02-0401020211, 06-02-0401020212, 06-02-0401020213	Project Planning	32.94456	Riverine	Montgomery County
06-51-0000000427	Sandpiper Village Subdivision Drainage Improvements	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.	Harris	06-02-0401020107	Project Planning	2.311658	Urban or Local	Harris County
06-51-0000000431	Oak Glen Place Subdivision Drainage Improvements	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.	Harris	06-02-0401040604, 06-02-0401040304	Project Planning	6.011309	Urban or Local	Harris County
06-51-0000000432	Northfield Place Subdivision Drainage Improvements	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.	Harris	06-02-0401040604, 06-02-0401040304	Project Planning	6.011309	Urban or Local	Harris County
06-51-0000000433	Spring Shadows South	Study to develop a Benefit Cost Analysis needed to elevate project to a FMP. FIF application information unavailable.	Harris	06-02-0401040302, 06-02-0401040303	Project Planning	5.819687	Urban or Local	City of Houston
06-51-0000000434	Houston Kashmere Gardens Area Flood Mitigation	The project includes improvements to storm sewer, roadside ditch systems, culverts, sewer inlets, and the construction of detention basins.	Harris	06-02-0401040703, 06-02-0401040604, 06-02-0401040606, 06-02-0401040304, 06-02-0401040701	Project Planning	30.87229	Urban or Local	City of Houston
06-51-0000000435	City of Southside Place - Auden Street Drainage Improvement Project	This project provides for design and construction of a new stormwater conveyance system for the City of Southside Place, that will have the capacity to covey a City standard storm event (2-year storm).	Harris	06-02-0401040402	Project Planning	45.60118	Urban or Local	City of Southside Place

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FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000424	City of Friendswood - Clear Creek Inline & Offline Detention - Bay Area Blvd. Phase I	Friendswood, Harris, Harris County Flood Control District, Galveston	No	30000			1680	1601	4640	1
06-51-0000000425	Clear Creek - Rehabilitation of the A214-00-00 channel to Restore Channel Conveyance Capacity	Friendswood, Harris County Flood Control District, Harris	No	30000			424	421	1153	0
06-51-0000000426	Sawdust Road Bridge Elevation Project	Montgomery	No	30000			794	633	3432	5
06-51-0000000427	Sandpiper Village Subdivision Drainage Improvements	Houston, Harris County Flood Control District, Harris	No	30000			196	140	453	2
06-51-0000000431	Oak Glen Place Subdivision Drainage Improvements	Houston, Harris County Flood Control District, Harris	No	30000			3186	2295	7827	13
06-51-0000000432	Northfield Place Subdivision Drainage Improvements	Houston, Harris County Flood Control District, Harris	No	30000			3186	2295	7827	13
06-51-0000000433	Spring Shadows South	Houston, Harris County Flood Control District, Harris	No	30000			1005	934	2805	5
06-51-0000000434	Houston Kashmere Gardens Area Flood Mitigation	Houston, Harris County Flood Control District, Harris	No	30000			6241	5217	24003	93
06-51-0000000435	City of Southside Place - Auden Street Drainage Improvement Project	Southside Place, Harris County Flood Control District, Harris	No	30000			8850	8143	65641	143

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000424	City of Friendswood - Clear Creek Inline & Offline Detention - Bay Area Blvd. Phase I	5	5	37.72999954	18.37999916
06-51-0000000425	Clear Creek - Rehabilitation of the A214-00-00 channel to Restore Channel Conveyance Capacity	0	0	8.909999847	3.380000114
06-51-0000000426	Sawdust Road Bridge Elevation Project	0	0	18.37999916	15.15999985
06-51-0000000427	Sandpiper Village Subdivision Drainage Improvements	0	0	3.180000067	1.75
06-51-0000000431	Oak Glen Place Subdivision Drainage Improvements	1	1	31.84000015	0.230000004
06-51-0000000432	Northfield Place Subdivision Drainage Improvements	1	1	31.84000015	0.230000004
06-51-0000000433	Spring Shadows South	0	0	11.77000046	0
06-51-0000000434	Houston Kashmere Gardens Area Flood Mitigation	6	6	101.5199966	21.13999939
06-51-0000000435	City of Southside Place - Auden Street Drainage Improvement Project	1	1	124.9800034	8.680000305

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000436	Unincorporated Areas of Bacliff and San Leon Roadside Ditches & Driveway Culverts Improvements	Further study of this unfunded CDBG-MIT project consists of various areas of roadside ditch and driveway culvert improvements in Bacliff and San Leon.	Galveston, Chambers	06-02-0402040200	Project Planning	6.949027	Urban or Local	Galveston County
06-51-0000000437	Evaluation of Dredging of Channels that Exit Into Lake Houston	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.	Harris, Liberty, Montgomery	06-02-0401010501, 06-02-0401030205, 06-02-0401030402	Project Planning	155.7761	Urban or Local	Harris County
06-51-0000000438	Greens Bayou, Jackson Bayou, White Oak Bayou, Cypress Creek and San Jacinto River Areas Subdivision Drainage Mitigation Project	This proposed solution recommends establishing positive drainage and clear flow lines, which are expected to reduce the water surface elevation in the subdivision to mitigate the structural flood risk for all 1,445 beneficiaries.	Harris, Waller, Liberty, Montgomery	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Project Planning	1042.203	Urban or Local	Harris County
06-51-0000000439	Greens Bayou, White Oak Bayou and Cypress Creek Areas Subdivision Drainage Mitigation Project	The mitigation solution for Cypress Creek Estates is to install storm sewer systems along West Shadow Lake, East Shadow Lake, North Shadow Lake and Winding Lane, to re-grade the roadside ditches, and to remove and replace of all driveways and culverts.	Harris, Waller	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Project Planning	542.6077	Urban or Local	Harris County
06-51-0000000440	Brazoria County Camp Mohawk County Park Development	Develop Benefit Cost Analysis in support of the purchase of approximately 160 acres of flood prone area adjacent to and surrounding Camp Mohawk County Park to be used as open space.	Brazoria	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040100	Project Planning	1481.87	Urban or Local	Brazoria County
06-51-0000000441	Addicks Reservoir - Design and Construction of a Bridge Replacement for Greenhouse Road at South Mayde Creek	Develop BCA to become a FMP. This project is part of the South Mayde Creek Plan that could reduce the risk of flooding for more than 70 homes and reduce the rainfall event by more than 340 acres in a pre-Atlas 1% rainfall event.	Harris	06-02-0401040102, 06-02-0401040202, 06-02-0401040104, 06-02-0401040203, 06-02-0401040303	Project Planning	15.50179	Riverine	Harris County Flood Control District (HCFCD)

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FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000436	Unincorporated Areas of Bacliff and San Leon Roadside Ditches & Driveway Culverts Improvements	Chambers, Galveston	No	30000			3330	2772	5550	5
06-51-0000000437	Evaluation of Dredging of Channels that Exit Into Lake Houston	North Harris County Regional Water Authority, Harris County Flood Control District, San Jacinto River Authority, Liberty County Water Control District 1	No	30000			6656	5117	15791	64
06-51-0000000438	Greens Bayou, Jackson Bayou, White Oak Bayou, Cypress Creek and San Jacinto River Areas Subdivision Drainage Mitigation Project	Harris County Flood Control District, Harris	No	30000			42056	33354	205981	745
06-51-0000000439	Greens Bayou, White Oak Bayou and Cypress Creek Areas Subdivision Drainage Mitigation Project	Houston, Waller, Jersey Village, Prairie View, Harris, Tomball, Humble, Harris County Flood Control District	No	30000			33835	27413	176096	425
06-51-0000000440	Brazoria County Camp Mohawk County Park Development	Hillcrest Village, Pearland, Alvin, Manvel, Brazoria, West Brazoria County Drainage District, Liverpool, Hitchcock, Iowa Colony, Brookside Village	No	30000			10	0	12	0
06-51-0000000441	Addicks Reservoir - Design and Construction of a Bridge Replacement for Greenhouse Road at South Mayde Creek	Houston, Harris County Flood Control District, Harris	No	30000			692	638	2455	12

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000436	Unincorporated Areas of Bacliff and San Leon Roadside Ditches & Driveway Culverts Improvements	0	0	50.36000061	48.61999893
06-51-0000000437	Evaluation of Dredging of Channels that Exit Into Lake Houston	1	1	169.0899963	326.6600037
06-51-0000000438	Greens Bayou, Jackson Bayou, White Oak Bayou, Cypress Creek and San Jacinto River Areas Subdivision Drainage Mitigation Project	27	27	789.5	1543.439941
06-51-0000000439	Greens Bayou, White Oak Bayou and Cypress Creek Areas Subdivision Drainage Mitigation Project	32	32	601.4099731	1841.859985
06-51-0000000440	Brazoria County Camp Mohawk County Park Development	0	0	0.340000004	2.859999895
06-51-0000000441	Addicks Reservoir - Design and Construction of a Bridge Replacement for Greenhouse Road at South Mayde Creek	0	0	11.64999962	27.29999924

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000442	Forest Estates - Live Oak Creek Watershed Artesian Forest 1 - Artesian Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	Montgomery	06-02-0401010207, 06-02-0401010401	Project Planning	2.484597	Urban or Local	City of Conroe
06-51-0000000443	Artesian Forest 1 - Artesian Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	Montgomery	06-02-0401010207	Project Planning	1.401927	Riverine	City of Conroe
06-51-0000000444	Artesian Forest East - Artesian Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	Montgomery	06-02-0401010207	Project Planning	1.401927	Urban or Local	City of Conroe
06-51-0000000445	Lilly - Alligator Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	Montgomery	06-02-0401010207, 06-02-0401010401	Project Planning	6.008916	Urban or Local	City of Conroe
06-51-0000000446	East Fork North - Alligator Creek Watershed "	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	Montgomery	06-02-0401010207, 06-02-0401010401	Project Planning	6.008916	Urban or Local	City of Conroe
06-51-0000000447	East Fork South - Alligator Creek Watershed "	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	Montgomery	06-02-0401010207, 06-02-0401010401	Project Planning	6.008916	Urban or Local	City of Conroe
06-51-0000000448	West Branch - Alligator Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	Montgomery	06-02-0401010207, 06-02-0401010401	Project Planning	6.008916	Riverine, Urban or Local	City of Conroe
06-51-0000000449	Oak Hollow - Alligator Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	Montgomery	06-02-0401010207, 06-02-0401010401	Project Planning	6.008916	Riverine, Urban or Local	City of Conroe
06-51-0000000450	Cable - Alligator Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	Montgomery	06-02-0401010207, 06-02-0401010401	Project Planning	6.008916	Riverine, Urban or Local	City of Conroe
06-51-0000000451	South Frazier - Grand Lake Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	Montgomery	06-02-0401010207, 06-02-0401010401	Project Planning	3.50546	Riverine, Urban or Local	City of Conroe
06-51-0000000452	Rivershire East - Grand Lake Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	Montgomery	06-02-0401010207, 06-02-0401010401	Project Planning	3.50546	Riverine, Urban or Local	City of Conroe
06-51-0000000453	Rivershire West - Grand Lake Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	Montgomery	06-02-0401010207, 06-02-0401010401	Project Planning	9.514376	Riverine, Urban or Local	City of Conroe
06-51-0000000454	Baretta - Grand Lake Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	Montgomery	06-02-0401010401	Project Planning	3.592233	Riverine, Urban or Local	City of Conroe

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FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000442	Forest Estates - Live Oak Creek Watershed Artesian Forest 1 - Artesian Creek Watershed	Montgomery, Conroe	No	30000			99	83	343	0
06-51-0000000443	Artesian Forest 1 - Artesian Creek Watershed	Montgomery, Conroe	No	30000			40	36	68	0
06-51-0000000444	Artesian Forest East - Artesian Creek Watershed	Montgomery, Conroe	No	30000			40	36	68	0
06-51-0000000445	Lilly - Alligator Creek Watershed	Montgomery, Conroe	No	30000			516	426	2300	1
06-51-0000000446	East Fork North - Alligator Creek Watershed "	Montgomery, Conroe	No	30000			516	426	2300	1
06-51-0000000447	East Fork South - Alligator Creek Watershed "	Montgomery, Conroe	No	30000			516	426	2300	1
06-51-0000000448	West Branch - Alligator Creek Watershed	Montgomery, Conroe	No	30000			516	426	2300	1
06-51-0000000449	Oak Hollow - Alligator Creek Watershed	Montgomery, Conroe	No	30000			516	426	2300	1
06-51-0000000450	Cable - Alligator Creek Watershed	Montgomery, Conroe	No	30000			516	426	2300	1
06-51-0000000451	South Frazier - Grand Lake Creek Watershed	Montgomery, Conroe	No	30000			365	257	1381	5
06-51-0000000452	Rivershire East - Grand Lake Creek Watershed	Montgomery, Conroe	No	30000			365	257	1381	5
06-51-0000000453	Rivershire West - Grand Lake Creek Watershed	Montgomery, Conroe	No	30000			879	682	2968	6
06-51-0000000454	Baretta - Grand Lake Creek Watershed	Montgomery, Conroe	No	30000			102	63	171	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000442	Forest Estates - Live Oak Creek Watershed Artesian Forest 1 - Artesian Creek Watershed	0	0	2.269999981	0.699999988
06-51-0000000443	Artesian Forest 1 - Artesian Creek Watershed	0	0	0.899999976	6.579999924
06-51-0000000444	Artesian Forest East - Artesian Creek Watershed	0	0	0.899999976	6.579999924
06-51-0000000445	Lilly - Alligator Creek Watershed	9	9	9.899999619	2.450000048
06-51-0000000446	East Fork North - Alligator Creek Watershed "	9	9	9.899999619	2.450000048
06-51-0000000447	East Fork South - Alligator Creek Watershed "	9	9	9.899999619	2.450000048
06-51-0000000448	West Branch - Alligator Creek Watershed	9	9	9.899999619	2.450000048
06-51-0000000449	Oak Hollow - Alligator Creek Watershed	9	9	9.899999619	2.450000048
06-51-0000000450	Cable - Alligator Creek Watershed	9	9	9.899999619	2.450000048
06-51-0000000451	South Frazier - Grand Lake Creek Watershed	0	0	6.670000076	2.99000001
06-51-0000000452	Rivershire East - Grand Lake Creek Watershed	0	0	6.670000076	2.99000001
06-51-0000000453	Rivershire West - Grand Lake Creek Watershed	9	9	16.56999969	5.440000057
06-51-0000000454	Baretta - Grand Lake Creek Watershed	1	1	5.949999809	3.960000038

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000455	Valley - Stewarts Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	Montgomery	06-02-0401010207, 06-02-0401010403, 06-02-0401010401, 06-02-0401010402, 06-02-0401010205, 06-02-0401010206	Project Planning	19.65916	Riverine, Urban or Local	City of Conroe
06-51-0000000456	Hunnington - Stewarts Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	Montgomery	06-02-0401010207, 06-02-0401010403, 06-02-0401010401, 06-02-0401010402, 06-02-0401010205, 06-02-0401010206	Project Planning	19.65916	Riverine, Urban or Local	City of Conroe
06-51-0000000457	Avenue M - Stewarts Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	Montgomery	06-02-0401010207, 06-02-0401010403, 06-02-0401010401, 06-02-0401010402, 06-02-0401010205, 06-02-0401010206	Project Planning	19.65916	Riverine, Urban or Local	City of Conroe
06-51-0000000458	South 3rd - Stewarts Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	Montgomery	06-02-0401010207, 06-02-0401010403, 06-02-0401010401, 06-02-0401010402, 06-02-0401010205, 06-02-0401010206	Project Planning	19.65916	Riverine, Urban or Local	City of Conroe
06-51-0000000459	Toby - Little Caney Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	Montgomery	06-02-0401010403, 06-02-0401010401, 06-02-0401010402	Project Planning	8.613266	Riverine, Urban or Local	City of Conroe
06-51-0000000460	Southern Oak - Little Laney Creek	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	Montgomery	06-02-0401010403, 06-02-0401010401, 06-02-0401010402	Project Planning	8.613266	Riverine, Urban or Local	City of Conroe
06-51-0000000461	Rush Creek Lake - Lake Conroe Estates Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	Montgomery	06-02-0401010207, 06-02-0401010206	Project Planning	2.380182	Riverine, Urban or Local	City of Conroe
06-51-0000000462	Longmire and SH-105 - Live Oak Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	Montgomery	06-02-0401010207, 06-02-0401010401	Project Planning	2.478638	Riverine, Urban or Local	City of Conroe

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000455	Valley - Stewarts Creek Watershed	Montgomery, Conroe	No	30000			374	277	1606	6
06-51-0000000456	Hunnington - Stewarts Creek Watershed	Montgomery, Conroe	No	30000			374	277	1606	6
06-51-0000000457	Avenue M - Stewarts Creek Watershed	Montgomery, Conroe	No	30000			374	277	1606	6
06-51-0000000458	South 3rd - Stewarts Creek Watershed	Montgomery, Conroe	No	30000			374	277	1606	6
06-51-0000000459	Toby - Little Caney Creek Watershed	Montgomery, Conroe	No	30000			271	204	571	0
06-51-0000000460	Southern Oak - Little Laney Creek	Montgomery, Conroe	No	30000			271	204	571	0
06-51-0000000461	Rush Creek Lake - Lake Conroe Estates Watershed	Montgomery, Conroe	No	30000			79	72	129	0
06-51-0000000462	Longmire and SH-105 - Live Oak Creek Watershed	Montgomery, Conroe	No	30000			99	83	343	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000455	Valley - Stewarts Creek Watershed	7	7	10.31999969	6.730000019
06-51-0000000456	Hunnington - Stewarts Creek Watershed	7	7	10.31999969	6.730000019
06-51-0000000457	Avenue M - Stewarts Creek Watershed	7	7	10.31999969	6.730000019
06-51-0000000458	South 3rd - Stewarts Creek Watershed	7	7	10.31999969	6.730000019
06-51-0000000459	Toby - Little Caney Creek Watershed	0	0	6.539999962	3.900000095
06-51-0000000460	Southern Oak - Little Laney Creek	0	0	6.539999962	3.900000095
06-51-0000000461	Rush Creek Lake - Lake Conroe Estates Watershed	1	1	0.379999995	1.179999948
06-51-0000000462	Longmire and SH-105 - Live Oak Creek Watershed	0	0	2.269999981	0.699999988

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000463	Southeast Montgomery County Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	Montgomery	06-02-0401010403, 06-02-0401010401, 06-02-0401010402, 06-02-0401010501, 06-02-0401010404, 06-02-0401020212, 06-02-0401030110, 06-02-0401030102, 06-02-0401030108, 06-02-0401030104, 06-02-0401030103, 06-02-0401030105, 06-02-0401030106, 06-02-0401030107, 06-02-0401030109	Watershed Planning	312.7224	Riverine, Urban or Local	Montgomery County
06-51-0000000464	Carpenters Bayou (West Acres, Shadowglen & Old River Terrace Neighborhood)	Further study to develop a BCA required to elevate project to FMP. The project is to reduce flooding in the Problem Area #5 identified by the Carpenters Bayou Watershed Planning Project Report, 2021.	Harris	06-02-0401010502, 06-02-0401040605, 06-02-0401040703, 06-02-0401040705, 06-02-0401040702, 06-02-0401040606, 06-02-0401040704	Project Planning	31.0257	Riverine, Urban or Local	Harris County
06-51-0000000465	Catalina	Study to develop a BCR and other data needed to elevate project to a FMP. FIF application information unavailable.	Harris	06-02-0402040100	Project Planning	261.6	Riverine, Urban or Local	City of Houston
06-51-0000000466	Ralston Acres Subdivision Drainage Improvements	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.	Harris	06-02-0401040605, 06-02-0401040604, 06-02-0401040606	Project Planning	1.86111	Riverine, Urban or Local	Harris County
06-51-0000000467	Middle Armand Bayou Protection Project	Further study to develop this project into a FMP. FIF application information unavailable.	Harris	06-02-0402040100	Other	261.6	Riverine, Urban or Local	City of Pasadena
06-51-0000000468	Houston Sunnyside Area Flood Mitigation	Includes new storm sewer trunk systems on major thoroughfares & new or improved neighborhood storm sewer systems. Will also require construction of detention basins to mitigate the proposed improvements.	Harris	06-02-0401040402, 06-02-0401040502, 06-02-0401040501, 06-02-0402040100	Project Planning	23.57122	Urban or Local	City of Houston
06-51-0000000469	Eastex Freeway Forest Sections 3 & 4 Subdivision Improvements	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.	Harris	06-02-0401040604, 06-02-0401040603	Project Planning	20.07202	Riverine, Urban or Local	Harris County
06-51-0000000470	Ledge Street Area Drainage and Paving	Project provides for design and construction of storm water drainage and paving improvements, mitigation, and necessary utilities to serve the Ledge and Nathaniel areas east of Clearwood Drive to mitigate structural flooding risk.	Harris	06-02-0401040502	Project Planning	0.137938		City of Houston

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000463	Southeast Montgomery County Master Drainage Plan	Montgomery	No	1170000			10008	7824	16360	37
06-51-0000000464	Carpenters Bayou (West Acres, Shadowglen & Old River Terrace Neighborhood)	Montgomery, Panorama Village, Conroe, Willis	No	30000			812	489	2731	24
06-51-0000000465	Catalina	Montgomery, Conroe	No	30000			33641	28404	92712	392
06-51-0000000466	Ralston Acres Subdivision Drainage Improvements	Montgomery, Conroe	No	30000			79	63	191	0
06-51-0000000467	Middle Armand Bayou Protection Project	Montgomery, Conroe	No	30000			2960	2415	12826	52
06-51-0000000468	Houston Sunnyside Area Flood Mitigation	Houston, Harris County Flood Control District, Harris	No	30000			1639	1579	4717	4
06-51-0000000469	Eastex Freeway Forest Sections 3 & 4 Subdivision Improvements	Houston, Harris County Flood Control District, Harris	No	30000			6510	5492	17612	59
06-51-0000000470	Ledge Street Area Drainage and Paving	Houston	No	30000			0	0	0	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000463	Southeast Montgomery County Master Drainage Plan	17	17	212.7899933	296.6700134
06-51-0000000464	Carpenters Bayou (West Acres, Shadowglen & Old River Terrace Neighborhood)	2	2	18.82999992	96.26999664
06-51-0000000465	Catalina	16	16	578.0200195	596.6900024
06-51-0000000466	Ralston Acres Subdivision Drainage Improvements	0	0	1.720000029	1.919999957
06-51-0000000467	Middle Armand Bayou Protection Project	4	4	61.33000183	44.70999908
06-51-0000000468	Houston Sunnyside Area Flood Mitigation	0	0	22.12999916	10.28999996
06-51-0000000469	Eastex Freeway Forest Sections 3 & 4 Subdivision Improvements	3	3	71.51000214	12.07999992
06-51-0000000470	Ledge Street Area Drainage and Paving	0	0	0	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000471	Scott Street (OST to Brays Bayou) Area Drainage and Paving Improvements (remove southland from it)	Project for design and construction of storm drainage and paving improvements in the Scott Street Area. Cost is to perform the BCA and additional analysis to promote this FME to a FMP.	Harris	06-02-0401040402	Project Planning	1.090661		City of Houston
06-51-0000000472	Freeway Manor North Area Drainage and Paving Improvements FMN, FMS, GWT and C106-10	Project for design and construction of storm drainage and paving improvements in the Freeway Manor North Area to mitigate structural flooding risk. Cost is to perform the BCA and additional analysis to promote this FME to a FMP.	Harris	06-02-0401040502	Project Planning	0.11982	Riverine, Coastal	City of Houston
06-51-0000000473	Richmond Plaza (South) Drainage and Paving Improvements (Chimney Rock - Burnett/Bayland Park)	Project for design and construction of storm drainage and paving improvements in the Richmond Plaza Area to reduce risk and structural flooding. Cost is to perform the BCA and additional analysis to promote this FME to a FMP.	Harris	06-02-0401040401	Project Planning	0.157178	Riverine	City of Houston
06-51-0000000474	Southland Area Drainage and Paving Improvements	Project for design and construction of storm drainage and paving improvements in the Southland Area. Cost is to perform the BCA and additional analysis to promote this FME to a FMP.	Harris	06-02-0401040402	Project Planning	0.028493		City of Houston
06-51-0000000475	Westbury Area Drainage and Paving Improvements Subproject 1 (+30%) - include entire Westbury	Project for design and construction of storm drainage and paving improvements including a surface detention basin in the Westbury Area. Cost is to perform the BCA and additional analysis to promote this FME to a FMP.	Harris	06-02-0401040401	Project Planning	0.155336	Riverine	City of Houston
06-51-0000000476	Chateau Forest Area Drainage and Paving (30%) Goforth	Project for design and construction of storm drainage and paving improvements in the Chateau Forest Drive and West Little York Road Areas. Cost is to perform the BCA and additional analysis to promote this FME to a FMP.	Harris	06-02-0401040302	Project Planning	0.530672	Riverine	City of Houston
06-51-0000000477	Drainage and Paving Improvements for Cottage Grove East - Phase II	Phase 2 of storm drainage and street improvements bounded by IH-10W, White Oak Bayou, TC Jester, and Durham Dr. Cost is to perform the BCA and additional analysis to promote this FME to a FMP.	Harris	06-02-0401040304	Project Planning	0.177447	Riverine	City of Houston
06-51-0000000478	TIRZ17 Memorial City Area Detention Basin	Provides for right-of-way acquisition, design and construction of detention basins to mitigate impacts in the Memorial City Area. Cost is to perform the BCA and additional analysis to promote this FME to a FMP.	Harris	06-02-0401040303	Project Planning	0.033396		City of Houston
06-51-0000000479	P518 Aldine West field	Project for design and construction of detention pond in conjunction with TxDot. Cost is to perform the BCA and additional analysis to promote this FME to a FMP.	Harris	06-02-0401040604	Project Planning	0.022489	Riverine	City of Houston

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000471	Scott Street (OST to Brays Bayou) Area Drainage and Paving Improvements (remove southland from it)	Houston	No	30000			0	0	0	0
06-51-0000000472	Freeway Manor North Area Drainage and Paving Improvements FMN, FMS, GWT and C106-10	Houston	No	30000			205	204	715	0
06-51-0000000473	Richmond Plaza (South) Drainage and Paving Improvements (Chimney Rock - Burnett/Bayland Park)	Houston	No	30000			306	268	1570	2
06-51-0000000474	Southland Area Drainage and Paving Improvements	Houston	No	30000			0	0	0	0
06-51-0000000475	Westbury Area Drainage and Paving Improvements Subproject 1 (+30%) - include entire Westbury	Houston	No	30000			104	103	469	1
06-51-0000000476	Chateau Forest Area Drainage and Paving (30%) Goforth	Houston	No	30000			672	640	1937	0
06-51-0000000477	Drainage and Paving Improvements for Cottage Grove East - Phase II	Houston	No	30000			27	20	30	0
06-51-0000000478	TIRZ17 Memorial City Area Detention Basin	Houston	No	30000			43	40	156	0
06-51-0000000479	P518 Aldine West field	Houston	No	30000			3550	3127	10517	35

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000471	Scott Street (OST to Brays Bayou) Area Drainage and Paving Improvements (remove southland from it)	0	0	0	0
06-51-0000000472	Freeway Manor North Area Drainage and Paving Improvements FMN, FMS, GWT and C106-10	0	0	2.670000076	0
06-51-0000000473	Richmond Plaza (South) Drainage and Paving Improvements (Chimney Rock - Burnett/Bayland Park)	0	0	3.670000076	0
06-51-0000000474	Southland Area Drainage and Paving Improvements	0	0	0	0
06-51-0000000475	Westbury Area Drainage and Paving Improvements Subproject 1 (+30%) - include entire Westbury	0	0	1.379999995	0
06-51-0000000476	Chateau Forest Area Drainage and Paving (30%) Goforth	0	0	6.070000172	0
06-51-0000000477	Drainage and Paving Improvements for Cottage Grove East - Phase II	0	0	0.649999976	0
06-51-0000000478	TIRZ17 Memorial City Area Detention Basin	0	0	0.219999999	0
06-51-0000000479	P518 Aldine West field	1	1	29.29999924	1.679999948

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000480	Spring Shadows North	Project for design and construction of storm drainage and paving improvements in the Spring Shadows Areas to mitigate structural flooding risk. Cost is to perform the BCA and additional analysis to promote this FME to a FMP.	Harris	06-02-0401040302	Project Planning	0.427261		City of Houston
06-51-0000000481	Kirkwood/Nottingham	Project provides for design and construction of storm drainage and paving improvements in the Notthingham and Yorkshire Areas. Cost is to perform the BCA and additional analysis to promote this FME to a FMP.	Harris	06-02-0401040303	Project Planning	0.37511		City of Houston
06-51-0000000482	Gellhorn	This project provides for paving improvements including storm inlet improvements in the Gelhorn Area. Cost is to perform the BCA and additional analysis to promote this FME to a FMP.	Harris	06-02-0401040701	Project Planning	0.017559	Riverine, Coastal	City of Houston
06-51-0000000483	Turkey Gully	This study will analyze the local drainage systems in the Shady Acres area to divert stormwater flow from Turkey Gully to White Oak Bayou. Cost is to perform the BCA and additional analysis to promote this FME to a FMP.	Harris	06-02-0401040304	Project Planning	0.245173	Riverine	City of Houston
06-51-0000000484	D-133 Sharpstown	This project provides for the right-of-way acquisition, design and construction of detention basins in the Sharpstown Area. Cost is to perform the BCA and additional analysis to promote this FME to a FMP.	Harris	06-02-0401040401	Project Planning	8.536541	Riverine	City of Houston
06-51-0000000485	City of Bellaire Newcastle/Kilmarnock Area Drainage Improvements	Perform engineering services to develop and advance a flood risk reduction project in the Newcastle/Kilmarnock area, servicing the eastern part of the City of Bellaire.	Harris	06-02-0401040401, 06-02-0401040402	Project Planning	3.597589	Riverine	City of Bellaire
06-51-0000000486	City of Bellaire Loop 610 Area Drainage Improvements	Perform engineering services to develop and advance a flood risk reduction project in the Newcastle area, servicing the east-central part of the City of Bellaire.	Harris	06-02-0401040401, 06-02-0401040402	Project Planning	3.597589	Riverine	City of Bellaire
06-51-0000000487	City of Bellaire South Rice Area Drainage Improvements	Perform engineering services to develop and advance a flood risk reduction project in the South Rice area, servicing the west-central part of the City of Bellaire.	Harris	06-02-0401040401, 06-02-0401040402	Project Planning	3.597589	Riverine	City of Bellaire
06-51-0000000488	City of Bellaire Chimney Rock Area Drainage Improvements	Perform preliminary engineering services to develop and advance a flood risk reduction project in the Chimney Rock area, servicing the western part of the City of Bellaire.	Harris	06-02-0401040401, 06-02-0401040402	Project Planning	3.597589	Riverine	City of Bellaire
06-51-0000000489	City of Huntsville - Elkins Lake Watershed	Analysis of alternatives to determine mitigation of existing flood problems	Walker	06-02-0401010104, 06-02-0401010102, 06-02-0401010201, 06-02-0401010202, 06-02-0401030302	Watershed Planning	43.42519	Urban or Local	City of Huntsville
06-51-0000000490	City of Huntsville - Spring Lake Watershed	Analysis of alternatives to determine mitigation of existing flood problems	Walker	06-02-0401010104, 06-02-0401010102, 06-02-0401010201, 06-02-0401010202, 06-02-0401030302	Watershed Planning	43.42519	Urban or Local	City of Huntsville

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000480	Spring Shadows North	Houston	No	30000			0	0	0	0
06-51-0000000481	Kirkwood/Nottingham	Houston	No	30000			0	0	0	0
06-51-0000000482	Gellhorn	Houston	No	30000			36	1	8578	0
06-51-0000000483	Turkey Gully	Houston	No	30000			544	503	983	1
06-51-0000000484	D-133 Sharpstown	Houston	No	30000			2373	2116	20445	65
06-51-0000000485	City of Bellaire Newcastle/Kilmarnock Area Drainage Improvements	Bellaire	No	1000000			5877	5537	25741	69
06-51-0000000486	City of Bellaire Loop 610 Area Drainage Improvements	Bellaire	No	1000000			5877	5537	25741	69
06-51-0000000487	City of Bellaire South Rice Area Drainage Improvements	Bellaire	No	1000000			5877	5537	25741	69
06-51-0000000488	City of Bellaire Chimney Rock Area Drainage Improvements	Bellaire	No	1000000			5877	5537	25741	69
06-51-0000000489	City of Huntsville - Elkins Lake Watershed	Huntsville, Walker	No	300000			69	60	141	0
06-51-0000000490	City of Huntsville - Spring Lake Watershed	Huntsville, Walker	No	300000			38	32	69	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000480	Spring Shadows North	0	0	0	0
06-51-0000000481	Kirkwood/Nottingham	0	0	0	0
06-51-0000000482	Gellhorn	2	2	6.809999943	0.670000017
06-51-0000000483	Turkey Gully	0	0	3.619999886	0
06-51-0000000484	D-133 Sharpstown	0	0	31.18000031	0.01
06-51-0000000485	City of Bellaire Newcastle/Kilmarnock Area Drainage Improvements	0	0	70.91999817	0.159999996
06-51-0000000486	City of Bellaire Loop 610 Area Drainage Improvements	0	0	70.91999817	0.159999996
06-51-0000000487	City of Bellaire South Rice Area Drainage Improvements	0	0	70.91999817	0.159999996
06-51-0000000488	City of Bellaire Chimney Rock Area Drainage Improvements	0	0	70.91999817	0.159999996
06-51-0000000489	City of Huntsville - Elkins Lake Watershed	1	1	2.109999895	2.809999943
06-51-0000000490	City of Huntsville - Spring Lake Watershed	0	0	0.519999981	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000491	Montgomery County MUDs 83,84 - Alternative 4 and 6B PER	Further define Alternative 4 and 6B recommended in the Oakhurst Drainage System & Bentwood Diversion Channel Flood Reduction Study (March 2021) including performing a benefit cost analysis.	Montgomery	06-02-0401010501, 06-02-0401010404	Project Planning	1.252733	Riverine	Montgomery County MUD 83, Montgomery County MUD 84
06-51-0000000494	Montgomery County MUDs 83,84 - Storm Sewer Improvements	Further define storm sewer improvements recommended in the Oakhurst Drainage System & Bentwood Diversion Channel Flood Reduction Study (March 2021), evaluate and identify potential inlet improvements.	Montgomery	06-02-0401010501, 06-02-0401010404	Project Planning	1.252733	Riverine	Montgomery County MUD 83, Montgomery County MUD 84
06-51-0000000495	Preliminary Engineering Design of Detention Pond & Conveyance System for Buddy Grass and Railroad Ditches	Study to create detention pond & Ditch system for Buddy Grass and RR Ditches	Liberty, Harris	06-02-0402030102	Project Planning	0.46752	Riverine	Liberty County WCID#1
06-51-0000000496	Feasibility Study - Convert Enderli Reservoir into a Detention Pond	Request to study converting Enderli Reservoir into a detention pond	Liberty, Harris	06-02-0402030102, 06-02-0402030103	Project Planning	1.561885	Riverine	Liberty County WCID#1
06-51-0000000497	Preliminary Engineering Design of Detention Pond at intersection of HWY90 & Railroad near Cedar Bayou	Study to create detention pond & Ditch system for Buddy Grass and RR Ditches	Liberty, Harris	06-02-0402030103	Project Planning	1.470806	Riverine	Liberty County WCID#1
06-51-0000000498	Preliminary Engineering Design of Detention Pond at Gier Road & Cedar Bayou	Study to create detention pond at Gier Road Ditch & Cedar Bayou Intersection	Liberty	06-02-0402030102	Project Planning	0.106639	Riverine	Liberty County WCID#1
06-51-0000000499	Preliminary Engineering Design of Detention Pond at Hatcherville & Cedar Bayou Farm Ditches	Study to create detention pond for Hatcherville & Cedar Bayou Farms Ditches	Liberty	06-02-0402030104	Project Planning	0.415864	Riverine	Liberty County WCID#1
06-51-0000000500	Green Acres Neighborhood Drainage Improvement Study	Evaluate existing flood risk in the Green Acres Neighborhood and identify solutions to mitigate flooding.	Harris	06-02-0402040100	Project Planning	0.365431	Urban or Local	City of Webster

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FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000491	Montgomery County MUDs 83,84 - Alternative 4 and 6B PER	Montgomery County MUD 83, Montgomery County MUD 84	No	100000			0	0	0	0
06-51-0000000494	Montgomery County MUDs 83,84 - Storm Sewer Improvements	Montgomery County MUD 83	No	650000			36	10	20	0
06-51-0000000495	Preliminary Engineering Design of Detention Pond & Conveyance System for Buddy Grass and Railroad Ditches	Liberty County Water Control District 1	No	5000000			763	483	2677	22
06-51-0000000496	Feasibility Study - Convert Enderli Reservoir into a Detention Pond	Liberty County Water Control District 1	No	4000000			769	484	2690	22
06-51-0000000497	Preliminary Engineering Design of Detention Pond at intersection of HWY90 & Railroad near Cedar Bayou	Liberty County Water Control District 1	No	3000000			553	346	675	1
06-51-0000000498	Preliminary Engineering Design of Detention Pond at Gier Road & Cedar Bayou	Liberty County Water Control District 1	No	3500000			763	483	2677	22
06-51-0000000499	Preliminary Engineering Design of Detention Pond at Hatcherville & Cedar Bayou Farm Ditches	Liberty County Water Control District 1	No	3500000			356	194	438	0
06-51-0000000500	Green Acres Neighborhood Drainage Improvement Study	Webster	No	100000			127	120	1694	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000491	Montgomery County MUDs 83,84 - Alternative 4 and 6B PER	0	0	0.850000024	0
06-51-0000000494	Montgomery County MUDs 83,84 - Storm Sewer Improvements	0	0	1.169999957	3.309999943
06-51-0000000495	Preliminary Engineering Design of Detention Pond & Conveyance System for Buddy Grass and Railroad Ditches	0	0	20.85000038	1344.449951
06-51-0000000496	Feasibility Study - Convert Enderli Reservoir into a Detention Pond	0	0	20.84000015	1344.550049
06-51-0000000497	Preliminary Engineering Design of Detention Pond at intersection of HWY90 & Railroad near Cedar Bayou	0	0	15.71000004	782.9799805
06-51-0000000498	Preliminary Engineering Design of Detention Pond at Gier Road & Cedar Bayou	0	0	20.79000092	1343.650024
06-51-0000000499	Preliminary Engineering Design of Detention Pond at Hatcherville & Cedar Bayou Farm Ditches	0	0	7	702.0200195
06-51-0000000500	Green Acres Neighborhood Drainage Improvement Study	0	0	2.349999905	0.230000004

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000501	Addicks Reservoir - Neighborhood Future Floodplain Analysis	Watershed-wide study investigating neighborhoods at flood risks identified though MAAPNext and best available data for the development of flood mitigation projects for Addicks Reservoir watershed.	Harris, Waller	06-02-0401020103, 06-02-0401020104, 06-02-0401040101, 06-02-0401040102, 06-02-0401040104, 06-02-0401040201, 06-02-0401040202, 06-02-0401040203, 06-02-0401040301, 06-02-0401040302, 06-02-0401040303	Watershed Planning	138.4694	Riverine, Urban or Local	Harris County
06-51-0000000502	Armand Bayou - Neighborhood Future Floodplain Analysis	Watershed-wide study investigating neighborhoods at flood risks identified though MAAPNext and best available data for the development of flood mitigation projects for Armand Bayou watershed.	Harris	06-02-0401040703, 06-02-0401040706, 06-02-0402040100	Watershed Planning	59.11513	Riverine, Urban or Local	Harris County
06-51-0000000503	Barker Reservoir - Neighborhood Future Floodplain Analysis	Watershed-wide study investigating neighborhoods at flood risks identified though MAAPNext and best available data for the development of flood mitigation projects for Barkers Reservoir watershed.	Harris, Waller, Fort Bend	06-02-0401020103, 06-02-0401040101, 06-02-0401040102, 06-02-0401040103, 06-02-0401040104, 06-02-0401040203, 06-02-0401040303, 06-02-0401040401	Watershed Planning	129.2783	Riverine, Urban or Local	Harris County
06-51-0000000504	Brays Bayou - Neighborhood Future Floodplain Analysis	Watershed-wide study investigating neighborhoods at flood risks identified though MAAPNext and best available data for the development of flood mitigation projects for Brays Bayou watershed.	Harris, Fort Bend	06-02-0401040303, 06-02-0401040305, 06-02-0401040401, 06-02-0401040402, 06-02-0401040501, 06-02-0401040502, 06-02-0401040703	Watershed Planning	128.6787	Riverine, Urban or Local	Harris County
06-51-0000000505	Buffalo Bayou - Neighborhood Future Floodplain Analysis	Watershed-wide study investigating neighborhoods at flood risks identified though MAAPNext and best available data for the development of flood mitigation projects for Buffalo Bayou watershed.	Harris, Fort Bend	06-02-0401040104, 06-02-0401040203, 06-02-0401040301, 06-02-0401040302, 06-02-0401040303, 06-02-0401040304, 06-02-0401040305, 06-02-0401040401, 06-02-0401040402, 06-02-0401040701, 06-02-0401040703	Watershed Planning	101.8722	Riverine, Urban or Local	Harris County

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000501	Addicks Reservoir - Neighborhood Future Floodplain Analysis	Harris, Waller, Houston, Katy	No	31022000			3746	3076	8182	52
06-51-0000000502	Armand Bayou - Neighborhood Future Floodplain Analysis	Harris, Houston, Nassau Bay, La Porte, Deer Park, Webster, Pasadena, Taylor Lake Village	No	44078000			2946	2402	12810	52
06-51-0000000503	Barker Reservoir - Neighborhood Future Floodplain Analysis	Fort Bend, Harris, Waller, Houston, Fulshear, Katy	No	25956000			1051	833	2598	11
06-51-0000000504	Brays Bayou - Neighborhood Future Floodplain Analysis	Fort Bend, Harris, Sugar Land, Missouri City, Houston, Stafford, Bellaire, Meadows Place, Southside Place, West University Place	No	66091000			40914	37611	216118	545
06-51-0000000505	Buffalo Bayou - Neighborhood Future Floodplain Analysis	Fort Bend, Harris, Houston, Hedwig Village, Hilshire Village, Hunters Creek Village, Piney Point Village, Bunker Hill Village, Spring Valley Village	No	5644000			1998	1532	36738	34

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000501	Addicks Reservoir - Neighborhood Future Floodplain Analysis	0	0	114.0999985	1607.180054
06-51-0000000502	Armand Bayou - Neighborhood Future Floodplain Analysis	4	4	61.72000122	44.34999847
06-51-0000000503	Barker Reservoir - Neighborhood Future Floodplain Analysis	5	5	34.06000137	752.5999756
06-51-0000000504	Brays Bayou - Neighborhood Future Floodplain Analysis	2	2	537.1599731	45.18999863
06-51-0000000505	Buffalo Bayou - Neighborhood Future Floodplain Analysis	0	0	38.72000122	17.89999962

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000506	Carpenters Bayou - Neighborhood Future Floodplain Analysis	Watershed-wide study investigating neighborhoods at flood risks identified though MAAPNext and best available data for the development of flood mitigation projects for Carpenters Bayou watershed.	Harris	06-02-0401010502, 06-02-0401040605, 06-02-0401040606, 06-02-0401040702, 06-02-0401040703, 06-02-0401040704, 06-02-0401040705	Watershed Planning	31.14528	Riverine, Urban or Local	Harris County
06-51-0000000507	Cedar Bayou - Neighborhood Future Floodplain Analysis	Watershed-wide study investigating neighborhoods at flood risks identified though MAAPNext and best available data for the development of flood mitigation projects for Cedar Bayou watershed.	Harris, Liberty, Chambers	06-02-0401010501, 06-02-0401010502, 06-02-0401030205, 06-02-0401040704, 06-02-0401040705, 06-02-0401040706, 06-02-0402030101, 06-02-0402030101, 06-02-0402030102, 06-02-0402030103, 06-02-0402030104, 06-02-0402030105, 06-02-0102030106, 06-02-0402030200	Watershed Planning	199.181	Riverine, Coastal, Urban or Local	Harris County
06-51-0000000508	Clear Creek - Neighborhood Future Floodplain Analysis	Watershed-wide study investigating neighborhoods at flood risks identified though MAAPNext and best available data for the development of flood mitigation projects for Clear Creek watershed.	Harris, Fort Bend, Brazoria, Galveston	06-02-0401040501, 06-02-0401040502, 06-02-0401040703, 06-02-0402030100, 06-02-0402040200, 06-02-0402040400	Watershed Planning	201.0327	Riverine, Coastal, Urban or Local	Harris County

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000506	Carpenters Bayou - Neighborhood Future Floodplain Analysis	Harris, Houston	No	32227000			812	489	2731	24
06-51-0000000507	Cedar Bayou - Neighborhood Future Floodplain Analysis	Chambers, Harris, Liberty, Dayton, Baytown, Mont Belvieu	No	5340000			2348	1510	4369	36
06-51-0000000508	Clear Creek - Neighborhood Future Floodplain Analysis	Brazoria, Galveston, Fort Bend, Harris, Missouri City, Houston, Alvin, Nassau Bay, Pearland, Clear Lake Shores, Friendswood, La Porte, El Lago, Manvel, Brookside Village, League City	No	75233000			27153	22909	75345	231

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000506	Carpenters Bayou - Neighborhood Future Floodplain Analysis	2	2	18.82999992	96.26999664
06-51-0000000507	Cedar Bayou - Neighborhood Future Floodplain Analysis	0	0	64.25	3104.429932
06-51-0000000508	Clear Creek - Neighborhood Future Floodplain Analysis	12	12	458.1400146	532.7299805

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000509	Greens Bayou - Neighborhood Future Floodplain Analysis	Watershed-wide study investigating neighborhoods at flood risks identified though MAAPNext and best available data for the development of flood mitigation projects for Greens Bayou watershed.	Harris	06-02-0401010501, 06-02-0401010502, 06-02-0401020106, 06-02-0401020107, 06-02-0401040301, 06-02-0401040302, 06-02-0401040304, 06-02-0401040601, 06-02-0401040602, 06-02-0401040603, 06-02-0401040604, 06-02-0401040601, 06-02-0401040602, 06-02-0401040603, 06-02-0401040604	Watershed Planning	210.9189	Riverine, Urban or Local	Harris County
06-51-0000000510	Little Cypress Creek - Neighborhood Future Floodplain Analysis	Watershed-wide study investigating neighborhoods at flood risks identified though MAAPNext and best available data for the development of flood mitigation projects for Little Cypress Creek watershed.	Harris	06-02-0401020101, 06-02-0401020103, 06-02-0401020104, 06-02-0401020105, 06-02-0401020106, 06-02-0401020201, 06-02-0101020205, 06-02-0401020210	Watershed Planning	52.31428	Riverine, Urban or Local	Harris County
06-51-0000000511	Luce Bayou - Neighborhood Future Floodplain Analysis	Watershed-wide study investigating neighborhoods at flood risks identified though MAAPNext and best available data for the development of flood mitigation projects for Luce Bayou watershed.	Harris, Montgomery, Liberty	06-02-0401010501, 06-02-0401030203, 06-02-0401030204, 06-02-0401030205, 06-02-0101030402, 06-02-0402030101, 06-02-0402030102	Watershed Planning	74.9454	Riverine, Urban or Local	Harris County
06-51-0000000512	San Jacinto & Galveston Bay - Neighborhood Future Floodplain	Watershed-wide study investigating neighborhoods at flood risks identified though MAAPNext and best available data for the development of flood mitigation projects for San Jacinto & Galveston Bay watershed.	Harris	06-02-0401040706, 06-02-0402040100	Watershed Planning	19.35991	Riverine, Coastal, Urban or Local	Harris County

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000509	Greens Bayou - Neighborhood Future Floodplain Analysis	Harris, Houston, Humble	No	92079000			25037	19555	97307	291
06-51-0000000510	Little Cypress Creek - Neighborhood Future Floodplain Analysis	Harris, Houston	No	13778000			1213	1029	2734	14
06-51-0000000511	Luce Bayou - Neighborhood Future Floodplain Analysis	Harris, Liberty, Dayton, Houston	No	2612000			772	529	717	0
06-51-0000000512	San Jacinto & Galveston Bay - Neighborhood Future Floodplain	Chambers, Harris, Morgan's Point, La Porte, Pasadena, Seabrook, Shoreacres	No	15316000			3301	2855	8623	107

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000509	Greens Bayou - Neighborhood Future Floodplain Analysis	17	17	333.1799927	163.5299988
06-51-0000000510	Little Cypress Creek - Neighborhood Future Floodplain Analysis	4	4	18.59000015	192.0200043
06-51-0000000511	Luce Bayou - Neighborhood Future Floodplain Analysis	0	0	40.68000031	190.5700073
06-51-0000000512	San Jacinto & Galveston Bay - Neighborhood Future Floodplain	0	0	55.06000137	17.81999969

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000513	San Jacinto River - Neighborhood Future Floodplain Analysis	Watershed-wide study investigating neighborhoods at flood risks identified though MAAPNext and best available data for the development of flood mitigation projects for San Jacinto River watershed.	Harris, Montgomery		Watershed Planning	473.3506	Riverine, Coastal, Urban or Local	Harris County
06-51-0000000514	Sims Bayou - Neighborhood Future Floodplain Analysis	Watershed-wide study investigating neighborhoods at flood risks identified though MAAPNext and best available data for the development of flood mitigation projects for Sims Bayou watershed.	Harris, Fort Bend	06-02-0401040401, 06-02-0401040402, 06-02-0401040501, 06-02-0401040502, 06-02-0401040703, 06-02-0402040100, 06-02-0402040400	Watershed Planning	93.53793	Riverine, Urban or Local	Harris County
06-51-0000000515	Spring Creek - Neighborhood Future Floodplain Analysis	Watershed-wide study investigating neighborhoods at flood risks identified though MAAPNext and best available data for the development of flood mitigation projects for Spring Creek watershed.	Harris, Waller, Montgomery, Grimes		Watershed Planning	385.9557	Riverine, Urban or Local	Harris County
06-51-0000000516	Willow Creek - Neighborhood Future Floodplain Analysis	Watershed-wide study investigating neighborhoods at flood risks identified though MAAPNext and best available data for the development of flood mitigation projects for Willow Creek watershed.	Harris	06-02-0401020105, 06-02-0401020106, 06-02-0401020205, 06-02-0401020209, 06-02-0401020210, 06-02-0401020212	Watershed Planning	55.65158	Riverine, Urban or Local	Harris County

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000513	San Jacinto River - Neighborhood Future Floodplain Analysis	Chambers, Harris, Liberty, Houston, Baytown, Montgomery, Patton Village, Roman Forest, Shenandoah, Woodbranch Village, Galena Park, Morgan's Point, Oak Ridge North, Plum Grove, La Porte, Deer Park	No	52736000			19487	14524	41110	361
06-51-0000000514	Sims Bayou - Neighborhood Future Floodplain Analysis	Fort Bend, Harris, Missouri City, Houston, Stafford, South Houston, Pearland, Pasadena	No	1599000			5854	4880	22203	73
06-51-0000000515	Spring Creek - Neighborhood Future Floodplain Analysis	Harris, Waller, Grimes, Houston, Montgomery, Shenandoah, Magnolia, Oak Ridge North, Stagecoach, Waller, Plantersville, Conroe, Tomball, Todd Mission, Humble, Spring	No	7219000			4185	3431	17055	44
06-51-0000000516	Willow Creek - Neighborhood Future Floodplain Analysis	Harris, Houston, Tomball	No	17179000			1317	1019	2575	7

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000513	San Jacinto River - Neighborhood Future Floodplain Analysis	15	15	446.1000061	801.1799927
06-51-0000000514	Sims Bayou - Neighborhood Future Floodplain Analysis	10	10	102.9800034	50.52000046
06-51-0000000515	Spring Creek - Neighborhood Future Floodplain Analysis	27	27	106.1299973	231.6499939
06-51-0000000516	Willow Creek - Neighborhood Future Floodplain Analysis	8	8	36.02999878	68.13999939

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000517	Greens Bayou Local Drainage Study	The main objective of this study is to analyze local subdivision drainage of repetitive loss and high flood risks neighborhoods to produce flood mitigation projects in Greens Bayou watershed.	Harris	06-02-0401010501, 06-02-0401010502, 06-02-0401020106, 06-02-0401020107, 06-02-0401040301, 06-02-0401040302, 06-02-0401040304, 06-02-0401040601, 06-02-0401040602, 06-02-0401040603, 06-02-0401040604, 06-02-0401040605, 06-02-0401040606, 06-02-0401040701, 06-02-0401040702	Watershed Planning	210.9189	Riverine, Urban or Local	Harris County
06-51-0000000518	Carpenters Bayou Local Drainage Study	The main objective of this study is to analyze local subdivision drainage of repetitive loss and high flood risks neighborhoods to produce flood mitigation projects in Carpenters Bayou watershed.	Harris	06-02-0401010502, 06-02-0401040605, 06-02-0401040606, 06-02-0401040702, 06-02-0401040703, 06-02-0401040704, 06-02-0401040705	Watershed Planning	31.13856	Riverine, Urban or Local	Harris County
06-51-0000000519	San Jacinto River Watershed Local Drainage Study	The main objective of this study is to analyze local subdivision drainage of repetitive loss and high flood risks neighborhoods to produce flood mitigation projects in San Jacinto River watershed.	Harris, Montgomery		Watershed Planning	473.3715	Riverine, Coastal, Urban or Local	Harris County
06-51-0000000520	Clear Creek Local Drainage Study	The main objective of this study is to analyze local subdivision drainage of repetitive loss and high flood risks neighborhoods to produce flood mitigation projects in Clear Creek watershed.	Harris, Fort Bend, Brazoria, Galveston	06-02-0401040501, 06-02-0401040502, 06-02-0401040703, 06-02-0402040100, 06-02-0402040200, 06-02-0402040400	Watershed Planning	201.0715	Riverine, Coastal, Urban or Local	Harris County

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000517	Greens Bayou Local Drainage Study	Harris, Houston, Humble	No	21649000			25037	19555	97307	291
06-51-0000000518	Carpenters Bayou Local Drainage Study	Harris, Houston	No	1088000			812	489	2731	24
06-51-0000000519	San Jacinto River Watershed Local Drainage Study	Chambers, Harris, Liberty, Houston, Baytown, Montgomery, Patton Village, Roman Forest, Shenandoah, Woodbranch Village, Galena Park, Morgan's Point, Oak Ridge North, Plum Grove, La Porte, Deer Park	No	3288000			19487	14524	41110	361
06-51-0000000520	Clear Creek Local Drainage Study	Brazoria, Galveston, Fort Bend, Harris, Missouri City, Houston, Alvin, Nassau Bay, Pearland, Clear Lake Shores, Friendswood, La Porte, El Lago, Manvel, Brookside Village, League City	No	3008000			27130	22909	75345	231

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000517	Greens Bayou Local Drainage Study	17	17	333.1799927	163.5299988
06-51-0000000518	Carpenters Bayou Local Drainage Study	2	2	18.82999992	96.26999664
06-51-0000000519	San Jacinto River Watershed Local Drainage Study	15	15	446.1000061	801.1799927
06-51-0000000520	Clear Creek Local Drainage Study	12	12	458.1400146	532.7299805

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000521	Cypress Creek Local Drainage Study	The main objective of this study is to analyze local subdivision drainage of repetitive loss and high flood risks neighborhoods to produce flood mitigation projects in Cypress Creek watershed.	Harris, Waller		Watershed Planning	267.2213	Riverine, Urban or Local	Harris County
06-51-0000000522	Cypress Creek - Neighborhood Future Floodplain Analysis	Watershed-wide study investigating neighborhoods at flood risks identified though MAAPNext and best available data for the development of flood mitigation projects for Cypress Creek watershed.	Harris, Waller		Watershed Planning	267.232	Riverine, Urban or Local	Harris County
06-51-0000000523	White Oak Bayou - Neighborhood Future Floodplain Analysis	Watershed-wide study investigating neighborhoods at flood risks identified though MAAPNext and best available data for the development of flood mitigation projects for White Oak Bayou watershed.	Harris	06-02-0401020104, 06-02-0401020106, 06-02-0401040301, 06-02-0401040302, 06-02-0401040303, 06-02-0401040304, 06-02-0401040305, 06-02-0401040601, 06-02-0401040604, 06-02-0401040701, 06-02-0401040703	Watershed Planning	111.1083	Riverine, Urban or Local	Harris County
06-51-0000000524	White Oak Bayou Local Drainage Study	The main objective of this study is to analyze local subdivision drainage of repetitive loss and high flood risks neighborhoods to produce flood mitigation projects in White Oak Bayou watershed.	Harris	06-02-0401020104, 06-02-0401020106, 06-02-0401040301, 06-02-0401040302, 06-02-0401040303, 06-02-0401040304, 06-02-0401040305, 06-02-0401040601, 06-02-0401040604, 06-02-0401040701, 06-02-0401040703	Watershed Planning	111.1081	Riverine, Urban or Local	Harris County
06-51-0000000525	Spring Gully & Goose Creek Local Drainage Study	The main objective of this study is to analyze local subdivision drainage of repetitive loss and high flood risks neighborhoods to produce flood mitigation projects in Spring Gully & Goose Creek watershed.	Harris	06-02-0401040704, 06-02-0401040705, 06-02-0401040706, 06-02-0402030104, 06-02-0402030105, 06-02-0402030106	Watershed Planning	34.95743	Riverine, Urban or Local	Harris County

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000521	Cypress Creek Local Drainage Study	Harris, Waller, Houston, Prairie View, Waller, Tomball, Spring	No	10768000			4159	3208	13877	87
06-51-0000000522	Cypress Creek - Neighborhood Future Floodplain Analysis	Harris, Waller, Houston, Prairie View, Waller, Tomball, Spring	No	67763000			4159	3208	13877	87
06-51-0000000523	White Oak Bayou - Neighborhood Future Floodplain Analysis	Harris, Houston, Jersey Village	No	46676000			17090	14693	85064	145
06-51-0000000524	White Oak Bayou Local Drainage Study	Harris, Houston, Jersey Village	No	4897000			17090	14693	85064	145
06-51-0000000525	Spring Gully & Goose Creek Local Drainage Study	Harris, Baytown	No	3591000			1882	1508	5995	64

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000521	Cypress Creek Local Drainage Study	18	18	109.4800034	1659.599976
06-51-0000000522	Cypress Creek - Neighborhood Future Floodplain Analysis	18	18	109.4800034	1659.599976
06-51-0000000523	White Oak Bayou - Neighborhood Future Floodplain Analysis	4	4	280.8699951	28.37000084
06-51-0000000524	White Oak Bayou Local Drainage Study	4	4	280.8699951	28.37000084
06-51-0000000525	Spring Gully & Goose Creek Local Drainage Study	1	1	32.83000183	73.12999725

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000526	Cedar Bayou Local Drainage Study	The main objective of this study is to analyze local subdivision drainage of repetitive loss and high flood risks neighborhoods to produce flood mitigation projects in Cedar Bayou watershed.	Harris, Liberty, Chambers	06-02-0401010501, 06-02-0401010502, 06-02-0401030205, 06-02-0401040704, 06-02-0401040705, 06-02-0401040706, 06-02-0402030101, 06-02-0402030102, 06-02-0402030103, 06-02-0402030104, 06-02-0402030105, 06-02-0402030106, 06-02-0402030200	Watershed Planning	199.043	Riverine, Coastal, Urban or Local	Harris County
06-51-0000000527	Addicks Reservoir Local Drainage Study	The main objective of this study is to analyze local subdivision drainage of repetitive loss and high flood risks neighborhoods to produce flood mitigation projects in Addicks Reservoir watershed.	Harris, Waller	06-02-0401020103, 06-02-0401020104, 06-02-0401040101, 06-02-0401040102, 06-02-0401040104, 06-02-0401040201, 06-02-0401040202, 06-02-0401040203, 06-02-0401040301, 06-02-0401040302, 06-02-0401040303	Watershed Planning	138.4692	Riverine, Urban or Local	Harris County
06-51-0000000528	Little Cypress Creek Local Drainage Study	The main objective of this study is to analyze local subdivision drainage of repetitive loss and high flood risks neighborhoods to produce flood mitigation projects in Little Cypress Creek watershed.	Harris	06-02-0401020101, 06-02-0401020103, 06-02-0401020104, 06-02-0401020105, 06-02-0401020106, 06-02-0401020201, 06-02-0401020205, 06-02-0401020210	Watershed Planning	52.29686	Riverine, Urban or Local	Harris County
06-51-0000000529	Buffalo Bayou Local Drainage Study	The main objective of this study is to analyze local subdivision drainage of repetitive loss and high flood risks neighborhoods to produce flood mitigation projects in Buffalo Bayou watershed.	Harris, Fort Bend	06-02-0401040104, 06-02-0401040203, 06-02-0401040301, 06-02-0401040302, 06-02-0401040303, 06-02-0401040304, 06-02-0401040305, 06-02-0401040401, 06-02-0401040402, 06-02-0401040701, 06-02-0401040703	Watershed Planning	101.8837	Riverine, Urban or Local	Harris County

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000526	Cedar Bayou Local Drainage Study	Chambers, Harris, Liberty, Dayton, Baytown, Mont Belvieu	No	905000			2345	1510	4369	36
06-51-0000000527	Addicks Reservoir Local Drainage Study	Harris, Waller, Houston, Katy	No	7151000			3746	3076	8182	52
06-51-0000000528	Little Cypress Creek Local Drainage Study	Harris, Houston	No	568000			1213	1029	2734	14
06-51-0000000529	Buffalo Bayou Local Drainage Study	Fort Bend, Harris, Houston, Hedwig Village, Hilshire Village, Hunters Creek Village, Piney Point Village, Bunker Hill Village, Spring Valley Village	No	195000			1998	1532	36738	34

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000526	Cedar Bayou Local Drainage Study	0	0	64.25	3104.429932
06-51-0000000527	Addicks Reservoir Local Drainage Study	0	0	114.0999985	1607.180054
06-51-0000000528	Little Cypress Creek Local Drainage Study	4	4	18.59000015	192.0200043
06-51-0000000529	Buffalo Bayou Local Drainage Study	0	0	38.72000122	17.89999962

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000530	Spring Gully & Goose Creek - Neighborhood Future Floodplain Analysis	Watershed-wide study investigating neighborhoods at flood risks identified though MAAPNext and best available data for the development of flood mitigation projects for Spring Gully & Goose Creek watershed.	Harris	06-02-0401040704, 06-02-0401040705, 06-02-0401040706, 06-02-0402030104, 06-02-0402030105, 06-02-0402030106	Watershed Planning	34.95739	Riverine, Urban or Local	Harris County
06-51-0000000531	Willow Creek Local Drainage Study	The main objective of this study is to analyze local subdivision drainage of repetitive loss and high flood risks neighborhoods to produce flood mitigation projects in Willow Creek watershed.	Harris	06-02-0401020105, 06-02-0401020106, 06-02-0401020205, 06-02-0401020209, 06-02-0401020210, 06-02-0401020212	Watershed Planning	55.58001	Riverine, Urban or Local	Harris County
06-51-0000000532	Luce Bayou Local Drainage Study	The main objective of this study is to analyze local subdivision drainage of repetitive loss and high flood risks neighborhoods to produce flood mitigation projects in Luce Bayou watershed.	Harris, Liberty, Montgomery	06-02-0401010501, 06-02-0401030203, 06-02-0401030204, 06-02-0401030205, 06-02-0402030101, 06-02-0402030204	Watershed Planning	74.94388	Riverine, Urban or Local	Harris County
06-51-0000000533	Barker Reservoir Local Drainage Study	The main objective of this study is to analyze local subdivision drainage of repetitive loss and high flood risks neighborhoods to produce flood mitigation projects in Barker Reservoir watershed.	Harris, Fort Bend, Waller	06-02-0401020103, 06-02-0401040101, 06-02-0401040102, 06-02-0401040103, 06-02-0101040104, 06-02-0401040203, 06-02-0401040303, 06-02-0401040401	Watershed Planning	128.6197	Riverine, Urban or Local	Harris County
06-51-0000000534	Brays Bayou Local Drainage Study	The main objective of this study is to analyze local subdivision drainage of repetitive loss and high flood risks neighborhoods to produce flood mitigation projects in Brays Bayou watershed.	Harris, Fort Bend	06-02-0401040303, 06-02-0401040305, 06-02-0101040401, 06-02-0401040402, 06-02-0401040501, 06-02-0401040502, 06-02-0401040703	Watershed Planning	128.6575	Riverine, Urban or Local	Harris County
06-51-0000000535	Briarwood Area Drainage Improvements	Further analysis to become a FMP. This project includes proposed storm sewer improvements to bring the area to accordance with the City of Baytown drainage criteria. Detention is also proposed to mitigate for impacts from increased flow.	Harris	06-02-0401040706, 06-02-0402030106	Project Planning	0.069906	Urban or Local	City of Baytown
06-51-0000000536	North Alexander	Further analysis to become a FMP. This project includes proposed storm sewer improvements to bring the area to accordance with the City of Baytown drainage criteria. Detention is also proposed to mitigate for impacts from increased flow.	Harris	06-02-0402030106	Project Planning	0.167745	Urban or Local	City of Baytown

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000530	Spring Gully & Goose Creek - Neighborhood Future Floodplain Analysis	Harris, Baytown	No	14929000			1882	1508	5995	64
06-51-0000000531	Willow Creek Local Drainage Study	Harris, Houston, Tomball	No	972000			1317	1019	2575	7
06-51-0000000532	Luce Bayou Local Drainage Study	Harris, Liberty, Dayton, Houston	No	328000			772	529	717	0
06-51-0000000533	Barker Reservoir Local Drainage Study	Fort Bend, Harris, Waller, Houston, Fulshear, Katy	No	2369000			1051	833	2598	11
06-51-0000000534	Brays Bayou Local Drainage Study	Fort Bend, Harris, Sugar Land, Missouri City, Houston, Stafford, Bellaire, Meadows Place, Southside Place, West University Place	No	334000			40914	37611	216118	545
06-51-0000000535	Briarwood Area Drainage Improvements	Baytown, Harris	No	30000			0	0	0	0
06-51-0000000536	North Alexander	Baytown, Harris	No	30000			0	0	0	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000530	Spring Gully & Goose Creek - Neighborhood Future Floodplain Analysis	1	1	32.83000183	73.12999725
06-51-0000000531	Willow Creek Local Drainage Study	8	8	36.02999878	68.13999939
06-51-0000000532	Luce Bayou Local Drainage Study	0	0	40.68000031	190.5700073
06-51-0000000533	Barker Reservoir Local Drainage Study	5	5	34.06000137	753.0100098
06-51-0000000534	Brays Bayou Local Drainage Study	2	2	537.1400146	45.18999863
06-51-0000000535	Briarwood Area Drainage Improvements	0	0	0	0
06-51-0000000536	North Alexander	0	0	0	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000537	Rollingbrook Garth and Main	Further analysis to become a FMP. This project includes proposed storm sewer improvements to bring the area to accordance with the City of Baytown drainage criteria. Detention is also proposed to mitigate for impacts from increased flow.	Harris	06-02-0401040706	Project Planning	0.082414	Urban or Local	City of Baytown
06-51-0000000538	West Baytown Phase 2	Further analysis to become a FMP. This project includes proposed storm sewer improvements to bring the area to accordance with the City of Baytown drainage criteria.	Harris	06-02-0401040706	Project Planning	0.168439	Urban or Local	City of Baytown
06-51-0000000539	Spring Creek Local Drainage Study	The main objective of this study is to analyze local subdivision drainage of repetitive loss and high flood risks neighborhoods to produce flood mitigation projects in Spring Creek watershed.	Harris, Montgomery, Waller, Grimes		Watershed Planning	385.8937	Riverine, Urban or Local	Harris County
06-51-0000000540	South Shore Drainage Pump Station	Project includes analysis to bring the existing storm sewer into compliance with updated drainage criteria along with the evaluation and design of a pump station.	Galveston	06-02-0402040200	Project Planning	1.243367	Coastal, Urban or Local	Galveston County
06-51-0000000541	51st Street Drainage Basin Pump Station Project	The project includes evaluation of storm drainage improvements including a pump station at 51st Street and Harborside that will help reduce flooding in the project area and the surrounding areas.	Galveston	06-02-0402040200	Project Planning	1.176899	Coastal, Urban or Local	Galveston County
06-51-0000000542	Kansas Street Drainage Project, Phase 2	Further analysis of propose drainage improvements within the City's Historic District.	Galveston	06-02-0402040100, 06-02-0402040200	Project Planning	51.84201	Riverine, Urban or Local	City of League City
06-51-0000000543	Gum Bayou Drainage Improvements	Widen Gum Bayou from approximately SH 96 to the City's ETJ and create a new detention pond approximately 270 ac-ft in size.	Galveston	06-02-0402040100, 06-02-0402040200	Project Planning	5.93291	Riverine, Urban or Local	City of League City
06-51-0000000544	Magnolia Creek & Cedar Gully Drainage Improvement Project	Project would look at Magnolia Creek and Cedar Gully upstream of FM 518. Improvements would include modification of detention pond outlets and culvert crossings at Summer Place.	Galveston	06-02-0402040100, 06-02-0402040200	Project Planning	6.301358	Riverine, Urban or Local	City of League City
06-51-0000000545	Highland Terrace and Wesley Drive Drainage Improvements	Evaluation of an extension of the FM 518 & Wesley Drive Drainage Improvement project. Includes extending storm sewer improvements.	Galveston	06-02-0402040100, 06-02-0402040200	Project Planning	0.868152	Riverine, Urban or Local	City of League City
06-51-0000000546	Benson Bayou Regional Mitigation Conveyance & Detention Pond Project	Further study of proposed regrading of Benson Bayou and tributaries along with a regional mitigation pond and reconstruction of road crossings and existing outfall structures.	Galveston	06-02-0402040100, 06-02-0402040200	Project Planning	5.101374	Riverine, Urban or Local	City of League City

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000537	Rollingbrook Garth and Main	Baytown, Harris	No	30000			0	0	0	0
06-51-0000000538	West Baytown Phase 2	Baytown, Harris	No	30000			81	76	302	0
06-51-0000000539	Spring Creek Local Drainage Study	Harris, Waller, Grimes, Houston, Montgomery, Shenandoah, Magnolia, Oak Ridge North, Stagecoach, Waller, Plantersville, Conroe, Tomball, Todd Mission, Humble, Spring	No	343000			4185	3431	17055	44
06-51-0000000540	South Shore Drainage Pump Station	Galveston, Galveston	No	5000000			1718	1560	4031	14
06-51-0000000541	51st Street Drainage Basin Pump Station Project	Galveston, Galveston	No	9000000			1912	1695	6139	23
06-51-0000000542	Kansas Street Drainage Project, Phase 2	Galveston, Harris, League City	No	580000			5305	4856	13944	25
06-51-0000000543	Gum Bayou Drainage Improvements	League City, Galveston	No	1200000			927	892	1357	6
06-51-0000000544	Magnolia Creek & Cedar Gully Drainage Improvement Project	League City, Galveston	No	750000			334	321	1076	3
06-51-0000000545	Highland Terrace and Wesley Drive Drainage Improvements	League City, Galveston	No	600000			29	14	503	8
06-51-0000000546	Benson Bayou Regional Mitigation Conveyance & Detention Pond Project	League City, Galveston	No	5000000			308	220	901	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000537	Rollingbrook Garth and Main	0	0	0	0
06-51-0000000538	West Baytown Phase 2	0	0	1.679999948	0
06-51-0000000539	Spring Creek Local Drainage Study	27	27	106.1299973	231.6499939
06-51-0000000540	South Shore Drainage Pump Station	0	0	29.61000061	0.409999996
06-51-0000000541	51st Street Drainage Basin Pump Station Project	0	0	26.47999954	0
06-51-0000000542	Kansas Street Drainage Project, Phase 2	2	2	105.0899963	1307.449951
06-51-0000000543	Gum Bayou Drainage Improvements	0	0	18.40999985	41.56999969
06-51-0000000544	Magnolia Creek & Cedar Gully Drainage Improvement Project	0	0	3.910000086	2.420000076
06-51-0000000545	Highland Terrace and Wesley Drive Drainage Improvements	0	0	1.25	4.090000153
06-51-0000000546	Benson Bayou Regional Mitigation Conveyance & Detention Pond Project	0	0	7.460000038	7.489999771

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000547	Interurban Watershed Drainage Improvement Project	Project would widen Interurban Ditch by approximately 10' starting at FM 518 and extending upstream for approximately 2,000 linear feet. A 10 to 12 acre-feet detention pond downstream of FM 518 will need to be constructed to mitigate.	Galveston	06-02-0402040100, 06-02-0402040200	Project Planning	1.123628	Riverine, Urban or Local	City of League City
06-51-0000000548	Patton Subdivision Drainage Improvements Project	Evaluation of storm sewer improvements along Sanders St., West Wilkins St., and Interurban St. The storm sewer would discharge into an approximate 40 ac-ft new detention pond along W. Galveston/W. Wilkins before discharging into Interurban Ditch.	Galveston	06-02-0402040100, 06-02-0402040200	Project Planning	1.119898	Urban or Local	City of League City
06-51-0000000551	St. Charles Street Drainage Improvements Project	Further analysis of proposed storm sewer improvements to St Charles Street and evaluation of detention.	Galveston	06-02-0402040100, 06-02-0402040200	Project Planning	5.13	Riverine, Urban or Local	City of League City
06-51-0000000552	Columbia Memorial Parkway Drainage Improvement Project	A detailed drainage analysis is needed to confirm storm sewer sizes and if detention would be needed. Project would replace roadside ditches with a curb and gutter system.	Galveston	06-02-0402040100, 06-02-0402040200	Project Planning	4.444135	Riverine, Urban or Local	City of League City
06-51-0000000553	Magnolia Creek & Cedar Gully Clearing and Desnagging Project	Project would look at Magnolia Creek and Cedar Gully downstream of FM 518 and all work would be above the ordinary high water mark. Scope of work includes the removal of vegetation and/or Desnagging of the channels.	Galveston	06-02-0402040100, 06-02-0402040200	Project Planning	5.760836	Riverine, Urban or Local	City of League City
06-51-0000000554	Texas Avenue-Magnolia-MedicalCenterBlvd-Hwy3 Drainage Improvement Study	Evaluate existing flood risk in a portion of the city bounded by Magnolia St, Texas Avenue, Hwy3, and Medical Center Blvd. Identify solutions to mitigate flood risk in this area.	Harris	06-02-0402040100	Project Planning	0.593552	Urban or Local	City of Webster
06-51-0000000555	HCMUD365 Cole Crossing Stormwater Detention and Water Quality Improvement Project	PER to further study and design the incorporation of additional mitigation volume and SWQ features in the existing Cole Crossing detention pond along Cypress Creek.	Harris	06-02-0401020104, 06-02-0401020105, 06-02-0401020106, 06-02-0401020210, 06-02-0401040201, 06-02-0401040301	Project Planning	25.76664	Riverine	Harris County MUD 365
06-51-0000000556	Brookshire-Katy Drainage District Watershed Study	Study to expand on the recently completed existing conditions model assessment. Conduct a needs assessment and identify mitigation solutions (FMPs) to be incorporated into the flood plan.	Waller	06-02-0401020103, 06-02-0401040101, 06-02-0401040102, 06-02-0401040103, 06-02-0401040203	Project Planning	76.76793	Riverine, Urban or Local	Brookshire Katy Drainage District
06-51-0000000557	Drainage and Paving Improvements for Cottage Grove East - Phase I	Phase 1 of storm drainage and street improvements bounded by IH-10W, White Oak Bayou, Durham Dr. and Shepherd Dr. Cost is to perform the BCA and additional analysis to promote this FME to a FMP.	Harris	06-02-0401040304	Project Planning	0.011397	Riverine	City of Houston

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000547	Interurban Watershed Drainage Improvement Project	League City	No	700000			6	4	31	2
06-51-0000000548	Patton Subdivision Drainage Improvements Project	League City, Galveston	No	700000			6	4	31	2
06-51-0000000551	St. Charles Street Drainage Improvements Project	League City, Galveston	No	50000			240	223	1168	2
06-51-0000000552	Columbia Memorial Parkway Drainage Improvement Project	League City, Galveston	No	100000			1016	856	2734	4
06-51-0000000553	Magnolia Creek & Cedar Gully Clearing and Desnagging Project	Galveston, League City	No	150000			335	322	1082	3
06-51-0000000554	Texas Avenue-Magnolia-MedicalCenterBlvd-Hwy3 Drainage Improvement Study	Webster	No	100000			0	0	0	0
06-51-0000000555	HCMUD365 Cole Crossing Stormwater Detention and Water Quality Improvement Project	Harris County Flood Control District, Houston, Harris	No	100000			1038	926	2445	17
06-51-0000000556	Brookshire-Katy Drainage District Watershed Study	Fort Bend, Harris, Waller, Brookshire Katy Drainage District, Houston, Katy	No	500000			217	163	594	2
06-51-0000000557	Drainage and Paving Improvements for Cottage Grove East - Phase I	Houston	No	30000			3	0	19	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000547	Interurban Watershed Drainage Improvement Project	0	0	0.949999988	0.039999999
06-51-0000000548	Patton Subdivision Drainage Improvements Project	0	0	0.949999988	0.039999999
06-51-0000000551	St. Charles Street Drainage Improvements Project	0	0	3.099999905	1.75
06-51-0000000552	Columbia Memorial Parkway Drainage Improvement Project	0	0	21.62000084	3.029999971
06-51-0000000553	Magnolia Creek & Cedar Gully Clearing and Desnagging Project	0	0	3.910000086	2.400000095
06-51-0000000554	Texas Avenue-Magnolia-MedicalCenterBlvd-Hwy3 Drainage Improvement Study	0	0	0.02	0.029999999
06-51-0000000555	HCMUD365 Cole Crossing Stormwater Detention and Water Quality Improvement Project	0	0	16.04999924	31.34000015
06-51-0000000556	Brookshire-Katy Drainage District Watershed Study	2	2	6.639999866	522.1300049
06-51-0000000557	Drainage and Paving Improvements for Cottage Grove East - Phase I	0	0	0.310000002	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000560	Chambers County Sterling Drive Drainage Study	Assess the existing utility and drainage infrastructure and develop a more effective solution to reduce flood risk for the residential development adjacent to Sterling Drive in Baytown.	Chambers	06-02-0402030105, 06-02-0402030106	Project Planning	0.048972	Urban or Local	Chambers County
06-51-0000000561	Chambers County Bayside Drive Tidal Surge Protection	Analyze feasibility of constructing a seawall and implementing other improvements to protect residents from storm surge.	Chambers	06-02-0402030200	Project Planning	0.096398	Riverine, Coastal	Chambers County

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000560	Chambers County Sterling Drive Drainage Study	Chambers, Baytown, San Jacinto Region Boundary, Gulf Coast Waste Disposal Authority, Houston-Galveston Area Council, Chambers County MUD 1, Coastal Water Authority, Baytown Area Water Authority, Trinity River Authority of Texas, Gulf Coast Protection District	No	85000			0	0	0	0
06-51-0000000561	Chambers County Bayside Drive Tidal Surge Protection	Chambers, Beach City, San Jacinto Region Boundary, Chambers-Liberty Counties Navigation District, Gulf Coast Waste Disposal Authority, Houston-Galveston Area Council, Coastal Water Authority, Trinity River Authority of Texas, Gulf Coast Protection District	No	127000			19	9	30	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000560	Chambers County Sterling Drive Drainage Study	0	0	0	0
06-51-0000000561	Chambers County Bayside Drive Tidal Surge Protection	0	0	0.497655839	5.079282284

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000596	Armand Bayou Watershed Study	Watershed-wide study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and BCAs for each project	Harris	06-02-0402040100, 06-02-0401040706, 06-02-0401040703	Watershed Planning	58.40414	Riverine, Coastal	Harris County Flood Control District (HCFCD)
06-51-0000000597	Clear Creek Watershed Study	Watershed-wide study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and BCAs for each project	Brazoria, Galveston, Fort Bend, Chambers, Harris	06-02-0402040200, 06-02-0402040400, 06-02-0402040100, 06-02-0401040502, 06-02-0401040501	Watershed Planning	199.72	Riverine, Coastal	Harris County Flood Control District (HCFCD)
06-51-0000000598	Carpenters Bayou Watershed Study	Watershed-wide study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and BCAs for each project	Harris	06-02-0401010502, 06-02-0401040705, 06-02-0401040702, 06-02-0401040606, 06-02-0401040605, 06-02-0401040703, 06-02-0401040704	Watershed Planning	29.37878	Riverine, Coastal	Harris County Flood Control District (HCFCD)
06-51-0000000599	Halls Bayou Watershed Study	Watershed-wide study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and BCAs for each project	Harris	06-02-0401040601, 06-02-0401040304, 06-02-0401040302, 06-02-0401040603, 06-02-0401040604, 06-02-0401040606, 06-02-0401040605, 06-02-0401040701	Watershed Planning	44.78399	Riverine	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000596	Armand Bayou Watershed Study	Harris, Nassau Bay, La Porte, Houston, Deer Park, Webster, Pasadena, Taylor Lake Village, San Jacinto Region Boundary, Baybrook Management District, Gulf Coast Waste Disposal Authority, NASA Area Management District, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Clear Lake City Water Authority	Yes	675000			2811	2279	12841	45
06-51-0000000597	Clear Creek Watershed Study	Harris County Flood Control District	Yes	844000			27212	22997	75538	239
06-51-0000000598	Carpenters Bayou Watershed Study	Harris County Flood Control District	Yes	422000			836	489	2788	24
06-51-0000000599	Halls Bayou Watershed Study	Harris County Flood Control District	Yes	507000			12474	10062	34415	98

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000596	Armand Bayou Watershed Study	4	4	57.94275284	44.25735474
06-51-0000000597	Clear Creek Watershed Study	12	12	462.4122009	528.0966187
06-51-0000000598	Carpenters Bayou Watershed Study	2	2	19.31406021	101.102356
06-51-0000000599	Halls Bayou Watershed Study	7	7	122.4869308	9.598435402

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000600	Jackson Bayou Watershed Study	Watershed-wide study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and BCAs for each project	Harris	06-02-0401010502, 06-02-0402030103, 06-02-0402030104, 06-02-0402030102, 06-02-0401040704	Watershed Planning	26.1468	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000601	Little Cypress Creek Watershed Study	Watershed-wide study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and BCAs for each project	Harris	06-02-0401020103, 06-02-0401020104, 06-02-0401020101, 06-02-0401020105, 06-02-0401020106, 06-02-0401020201, 06-02-0401020205, 06-02-0401020210	Watershed Planning	54.03115	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000602	Luce Bayou Watershed Study	Watershed-wide study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and BCAs for each project	Harris, Liberty, San Jacinto	06-02-0302021201, 06-02-0401030201, 06-02-0302030101, 06-02-0302021207, 06-02-0302030108, 06-02-0302030105, 06-02-0302030106, 06-02-0401030205, 06-02-0401010501, 06-02-0401030402, 06-02-0402030102, 06-02-0402030101, 06-02-0401030202, 06-02-0401030203, 06-02-0401030204	Watershed Planning	220.6149	Riverine	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000600	Jackson Bayou Watershed Study	Harris, Houston, San Jacinto Region Boundary, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Harris County MUD 525, Coastal Water Authority, Harris County MUD 19, Crosby MUD, Harris County WCID 70, Newport MUD, Harris County FWSD 58, Harris County MUD 544, Harris County MUD 544	Yes	422000			396	255	618	9
06-51-0000000601	Little Cypress Creek Watershed Study	Harris County Flood Control District	Yes	507000			1219	1035	2774	14
06-51-0000000602	Luce Bayou Watershed Study	Harris County Flood Control District	Yes	675000			1983	1574	2500	6

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000600	Jackson Bayou Watershed Study	0	0	3.469278812	97.62091827
06-51-0000000601	Little Cypress Creek Watershed Study	4	4	18.72658348	191.8658295
06-51-0000000602	Luce Bayou Watershed Study	6	6	91.02285004	248.9109192

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000603	San Jacinto and Galveston Bay Watershed Study	Watershed-wide study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and BCAs for each project	Chambers, Harris	06-02-0402040100, 06-02-0401040706	Watershed Planning	19.08853	Riverine, Coastal	Harris County Flood Control District (HCFCD)
06-51-0000000604	San Jacinto River Watershed Study	Watershed-wide study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and BCAs for each project	Chambers, Harris, Liberty, Montgomery		Watershed Planning	245.7265	Riverine, Coastal	Harris County Flood Control District (HCFCD)
06-51-0000000605	Spring Creek Watershed Study	Watershed-wide study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and BCAs for each project	Harris, Waller, Montgomery, Grimes		Watershed Planning	390.7018	Riverine	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000603	San Jacinto and Galveston Bay Watershed Study	Chambers, Harris, Morgan's Point, La Porte, Pasadena, Seabrook, Shoreacres, San Jacinto Region Boundary, Chambers-Liberty Counties Navigation District, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Coastal Water Authority, La Porte Area Water Authority, Trinity River Authority of Texas	Yes	422000			3301	2855	8623	107
06-51-0000000604	San Jacinto River Watershed Study	Harris County Flood Control District	Yes	1013000			8975	6509	30485	310
06-51-0000000605	Spring Creek Watershed Study	Harris County Flood Control District	Yes	760000			4202	3447	17090	44

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000603	San Jacinto and Galveston Bay Watershed Study	0	0	55.05866623	17.81720352
06-51-0000000604	San Jacinto River Watershed Study	5	5	213.704483	465.9884949
06-51-0000000605	Spring Creek Watershed Study	27	27	106.5066299	233.1332397

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000606	Spring Gully and Goose Creek Watershed Study	Watershed-wide study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and BCAs for each project	Harris	06-02-0402030104, 06-02-0402030106, 06-02-0401040705, 06-02-0401040706, 06-02-0401040704	Watershed Planning	34.01799	Riverine, Coastal	Harris County Flood Control District (HCFCD)
06-51-0000000607	Vince Bayou Watershed Study	Watershed-wide study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and BCAs for each project	Harris	06-02-0402040100, 06-02-0401040502, 06-02-0401040703	Watershed Planning	15.92933	Riverine, Coastal	Harris County Flood Control District (HCFCD)
06-51-0000000608	Willow Creek Watershed Study	Watershed-wide study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and BCAs for each project	Harris, Montgomery	06-02-0401020105, 06-02-0401020106, 06-02-0401020205, 06-02-0401020210, 06-02-0401020209, 06-02-0401020212	Watershed Planning	51.0763	Riverine	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000606	Spring Gully and Goose Creek Watershed Study	Harris, Baytown, San Jacinto Region Boundary, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Coastal Water Authority, Lake MUD, Harris County MUD 473, Harris County FWSD 1-B, Harris County MUD 213, Harris County WCID 1, Harris County MUD 459, Baytown Area Water Authority, Harris County FWSD 27	Yes	422000			1882	1508	5995	64
06-51-0000000607	Vince Bayou Watershed Study	Harris, South Houston, Houston, Pasadena, San Jacinto Region Boundary, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Coastal Water Authority, Gulf Coast Protection District	Yes	422000			1133	840	4791	11
06-51-0000000608	Willow Creek Watershed Study	Harris County Flood Control District	Yes	507000			1302	1005	2390	7

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000606	Spring Gully and Goose Creek Watershed Study	1	1	32.82031631	73.12798309
06-51-0000000607	Vince Bayou Watershed Study	1	1	18.55932808	1.841356516
06-51-0000000608	Willow Creek Watershed Study	8	8	35.51558685	67.02464294

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000612	Feasibility Study of the H103-05-00 Sub watershed in City of Jacinto City	Feasibility Study for H103-05-00 Project in City of Jacinto City	Harris	06-02-0401040701	Project Planning	2.06808	Riverine, Coastal	Harris County Flood Control District (HCFCD)
06-51-0000000613	Feasibility Study for Tributary E118-00-00	Feasibility Study for Tributary E118-00-00	Harris	06-02-0401040304, 06-02-0401040302	Project Planning	2.334797	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000614	Feasibility Study for Little Vince Bayou I101-00-00 in Pasadena	Feasibility Study for Little Vince Bayou I101-00-00 in Pasadena	Harris	06-02-0402040100, 06-02-0401040703	Project Planning	5.369837	Riverine, Coastal	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000612	Feasibility Study of the H103-05-00 Sub watershed in City of Jacinto City	Harris, Jacinto City, Houston, San Jacinto Region Boundary, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Coastal Water Authority, Gulf Coast Protection District	Yes	169000			290	225	9309	1
06-51-0000000613	Feasibility Study for Tributary E118-00-00	Harris, Houston, San Jacinto Region Boundary, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Near Northwest Management District, Harris County Flood Control District, Houston-Galveston Area Council, Coastal Water Authority, Gulf Coast Protection District	Yes	254000			123	111	260	0
06-51-0000000614	Feasibility Study for Little Vince Bayou I101-00-00 in Pasadena	Harris, Houston, Pasadena, San Jacinto Region Boundary, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Coastal Water Authority, Gulf Coast Protection District	Yes	338000			22	6	317	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000612	Feasibility Study of the H103-05-00 Sub watershed in City of Jacinto City	2	2	10.40934753	0.664794564
06-51-0000000613	Feasibility Study for Tributary E118-00-00	0	0	2.295431137	3.572282314
06-51-0000000614	Feasibility Study for Little Vince Bayou I101-00-00 in Pasadena	0	0	0.983242095	0.194057122

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000615	H103-00-00 Denver Harbor Area Project	A study of the upstream end of H103-00-00 in the Denver Harbor area	Harris	06-02-0401040701	Project Planning	1.410627	Riverine, Coastal	Harris County Flood Control District (HCFCD)
06-51-0000000616	Cedar Bayou Overflow and Channel Diversion Study	Cedar Bayou Overflow and Channel Diversion Study for defining flood risk ad mitigation alternative	Harris, Liberty	06-02-0302030301, 06-02-0302030302, 06-02-0401010502, 06-02-0302030108, 06-02-0401030205, 06-02-0401010501, 06-02-0402030102, 06-02-0402030101	Project Planning	33.37769	Riverine	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000615	H103-00-00 Denver Harbor Area Project	Harris, Houston, San Jacinto Region Boundary, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Coastal Water Authority, Gulf Coast Protection District	Yes	254000			36	1	8578	0
06-51-0000000616	Cedar Bayou Overflow and Channel Diversion Study	Harris, Liberty, Dayton, San Jacinto Region Boundary, San Jacinto River Authority, Liberty County Drainage District, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Harris County MUD 557, Coastal Water Authority, Pine Bough PUD, Harris-Liberty Counties MUD 1, Robin PUD, Harris County MUD 506	Yes	675000			561	351	2572	22

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000615	H103-00-00 Denver Harbor Area Project	2	2	6.797706127	0.664794981
06-51-0000000616	Cedar Bayou Overflow and Channel Diversion Study	0	0	15.81542969	1005.828491

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000617	PER of Gulf Bank South Stormwater Detention Basin	Preliminary Engineering Study of Stormwater Detention Basin Gulf Bank South	Harris	06-02-0401040604	Project Planning	13.8899	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000618	Feasibility Study of Aldine Westfield North Stormwater Detention Basin	Feasibility Study of Stormwater Detention Basin - Aldine Westfield North	Harris	06-02-0401040604	Project Planning	14.89582	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000619	Feasibility Study of Aldine Westfield South Stormwater Detention Basin	Feasibility Study of Stormwater Detention Basin-Aldine Westfield South	Harris	06-02-0401040604	Project Planning	14.89563	Riverine	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000617	PER of Gulf Bank South Stormwater Detention Basin	Harris, San Jacinto Region Boundary, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Airline Improvement District, Gulf Coast Protection District	Yes	1013000			8160	6429	22841	54
06-51-0000000618	Feasibility Study of Aldine Westfield North Stormwater Detention Basin	Harris, Houston, San Jacinto Region Boundary, East Aldine Management District, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Gulf Coast Protection District	Yes	675000			8884	7024	24719	54
06-51-0000000619	Feasibility Study of Aldine Westfield South Stormwater Detention Basin	Harris, Houston, San Jacinto Region Boundary, East Aldine Management District, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Gulf Coast Protection District	Yes	675000			8884	7024	24719	54

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000617	PER of Gulf Bank South Stormwater Detention Basin	3	3	70.7973938	1.894855976
06-51-0000000618	Feasibility Study of Aldine Westfield North Stormwater Detention Basin	3	3	87.58344269	2.338018894
06-51-0000000619	Feasibility Study of Aldine Westfield South Stormwater Detention Basin	3	3	87.58347321	2.338018894

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000620	Feasibility Study of Little York Phase 2 Stormwater Detention Basin	Feasibility Study of Stormwater Detention Basin - Little York Phase 2	Harris	06-02-0401040604	Project Planning	2.861349	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000621	Feasibility Study of Veterans Memorial Stormwater Detention Basin	Feasibility Study of Stormwater Detention Basin - Vet Memorial	Harris	06-02-0401040604	Project Planning	12.22489	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000622	Feasibility Study of the Turney Road Stormwater Detention Basin	Feasibility Study of Stormwater Detention Basin - Turney Rd	Harris	06-02-0401040604	Project Planning	12.22874	Riverine	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000620	Feasibility Study of Little York Phase 2 Stormwater Detention Basin	Harris, San Jacinto Region Boundary, East Aldine Management District, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Coastal Water Authority, Gulf Coast Protection District	Yes	633000			1067	879	2681	0
06-51-0000000621	Feasibility Study of Veterans Memorial Stormwater Detention Basin	Harris, San Jacinto Region Boundary, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Coastal Water Authority, Forest Hills MUD, Mount Houston Road MUD, Gulf Coast Protection District	Yes	633000			5084	3948	12930	34
06-51-0000000622	Feasibility Study of the Turney Road Stormwater Detention Basin	Harris, San Jacinto Region Boundary, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Coastal Water Authority, Gulf Coast Protection District	Yes	633000			5084	3948	12930	34

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000620	Feasibility Study of Little York Phase 2 Stormwater Detention Basin	2	2	14.18974972	0
06-51-0000000621	Feasibility Study of Veterans Memorial Stormwater Detention Basin	3	3	43.82603836	7.287269115
06-51-0000000622	Feasibility Study of the Turney Road Stormwater Detention Basin	3	3	43.82603836	7.287269115

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000623	Feasibility Study of the Shady Lane Stormwater Detention Basin	Feasibility Study of Stormwater Detention Basin - Shady Ln	Harris	06-02-0401040604	Project Planning	6.308395	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000624	Feasibility Study of the Pinewood Stormwater Detention Basin	Feasibility Study of Stormwater Detention Basin - Pinewood	Harris	06-02-0401040604	Project Planning	7.321717	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000625	Feasibility Study of the Northline North Stormwater Detention Basin	Feasibility Study of Stormwater Detention Basin - Northline N	Harris	06-02-0401040604	Project Planning	20.09616	Riverine	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000623	Feasibility Study of the Shady Lane Stormwater Detention Basin	Harris, San Jacinto Region Boundary, East Aldine Management District, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Sunbelt FWSD, Gulf Coast Protection District	Yes	633000			3551	3128	10521	35
06-51-0000000624	Feasibility Study of the Pinewood Stormwater Detention Basin	Harris, Houston, San Jacinto Region Boundary, Greater Northside Management District, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Coastal Water Authority, Gulf Coast Protection District	Yes	633000			4276	3723	12399	35
06-51-0000000625	Feasibility Study of the Northline North Stormwater Detention Basin	Harris, Houston, San Jacinto Region Boundary, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Sunbelt FWSD, Airline Improvement District, Gulf Coast Protection District	Yes	633000			10058	8082	27944	75

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000623	Feasibility Study of the Shady Lane Stormwater Detention Basin	1	1	29.31178093	1.673282981
06-51-0000000624	Feasibility Study of the Pinewood Stormwater Detention Basin	1	1	46.0978508	2.116446972
06-51-0000000625	Feasibility Study of the Northline North Stormwater Detention Basin	5	5	82.78295135	8.960552216

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000626	Feasibility Study of the Northline South Stormwater Detention Basin	Feasibility Study of Stormwater Detention Basin - Northline S	Harris	06-02-0401040604	Project Planning	20.09737	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000627	Feasibility Study of the Lakewood Stormwater Detention Basin	Feasibility Study of Stormwater Detention Basin - Lakewood Basin	Harris	06-02-0401040604	Project Planning	7.321482	Riverine	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000626	Feasibility Study of the Northline South Stormwater Detention Basin	Harris, Houston, San Jacinto Region Boundary, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Sunbelt FWSD, Airline Improvement District, Gulf Coast Protection District	Yes	633000			10058	8082	27944	75
06-51-0000000627	Feasibility Study of the Lakewood Stormwater Detention Basin	Harris, Houston, San Jacinto Region Boundary, Greater Northside Management District, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Coastal Water Authority, Gulf Coast Protection District	Yes	633000			4276	3723	12399	35

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000626	Feasibility Study of the Northline South Stormwater Detention Basin	5	5	82.78294373	8.960552216
06-51-0000000627	Feasibility Study of the Lakewood Stormwater Detention Basin	1	1	46.09783936	2.116446972

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000628	Feasibility Study of the Langley Stormwater Detention Basin	Feasibility Study of Stormwater Detention Basin - Langley Basin	Harris	06-02-0401040604	Project Planning	9.556069	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000629	Feasibility Study of the Haywood Stormwater Detention Basin	Feasibility Study of Stormwater Detention Basin - Haywood Basin	Harris	06-02-0401040604	Project Planning	9.556073	Riverine	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000628	Feasibility Study of the Langley Stormwater Detention Basin	Harris, Houston, San Jacinto Region Boundary, East Aldine Management District, Greater Northside Management District, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Coastal Water Authority, Gulf Coast Protection District	Yes	633000			2048	1683	4985	3
06-51-0000000629	Feasibility Study of the Haywood Stormwater Detention Basin	Harris, Houston, San Jacinto Region Boundary, Greater Northside Management District, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Coastal Water Authority, Gulf Coast Protection District	Yes	633000			2048	1683	4985	3

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000628	Feasibility Study of the Langley Stormwater Detention Basin	2	2	35.17015076	0.637884021
06-51-0000000629	Feasibility Study of the Haywood Stormwater Detention Basin	2	2	35.17015076	0.637884021

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000630	Feasibility Study of the Cockrell Stormwater Detention Basin	Feasibility Study of Stormwater Detention Basin - Cockrell	Harris	06-02-0401040604	Project Planning	3.054198	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000631	Feasibility Study of Halls Bayou Main Stem Conveyance Improvements	Feasibility Study of Halls Bayou Mainstem Conveyance Improvements	Harris	06-02-0401040604	Project Planning	44.78399	Riverine	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000630	Feasibility Study of the Cockrell Stormwater Detention Basin	Harris, Houston, San Jacinto Region Boundary, Greenspoint District, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Central Harris County Regional Water Authority, Coastal Water Authority, Fallbrook Utility District, Gulf Coast Protection District	Yes	633000			141	59	424	5
06-51-0000000631	Feasibility Study of Halls Bayou Main Stem Conveyance Improvements	Harris, Houston, San Jacinto Region Boundary, East Aldine Management District, Greater Northside Management District, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Sunbelt FWSD, Airline Improvement District, Coastal Water Authority, Northwest Park MUD, Forest Hills MUD, Mount Houston Road MUD, Gulf Coast Protection District	Yes	675000			12474	10062	34415	98

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000630	Feasibility Study of the Cockrell Stormwater Detention Basin	0	0	1.103690028	0
06-51-0000000631	Feasibility Study of Halls Bayou Main Stem Conveyance Improvements	7	7	122.4869003	9.598436356

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000632	Feasibility Study of Blue Bell Phase 2 Stormwater Detention Basin	Feasibility Study of Stormwater Detention Basin - Blue Bell Phase 2	Harris	06-02-0401040604	Project Planning	14.56075	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000633	Cypress Creek Watershed Study to Phase the FMP 63000357	Study to phase and prioritize currently recommended FMP 063000357. Scope would include demonstrating NAI, OPCC, BCAs for individual phases of the larger project	Harris, Waller		Other	266.3256	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000634	Projects B106-WP01 and B106-WP02 for City of La Porte	Right-Of-Way, Design and Construction for Conveyance Improvements for B106-00-00 to reduce flooding in the City of La Porte	Harris	06-02-0402040100, 06-02-0401040706	Project Planning	4.716516	Riverine, Coastal	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000632	Feasibility Study of Blue Bell Phase 2 Stormwater Detention Basin	Harris, San Jacinto Region Boundary, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Coastal Water Authority, Gulf Coast Protection District	Yes	633000			5111	3948	12930	34
06-51-0000000633	Cypress Creek Watershed Study to Phase the FMP 63000357	Harris County Flood Control District	Yes	844000			4154	3204	13862	87
06-51-0000000634	Projects B106-WP01 and B106-WP02 for City of La Porte	Harris, La Porte, Deer Park, San Jacinto Region Boundary, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Coastal Water Authority, La Porte Area Water Authority, Gulf Coast Protection District	Yes	633000			347	344	1005	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000632	Feasibility Study of Blue Bell Phase 2 Stormwater Detention Basin	3	3	44.33076096	7.287269115
06-51-0000000633	Cypress Creek Watershed Study to Phase the FMP 63000357	18	18	109.5340271	1663.414307
06-51-0000000634	Projects B106-WP01 and B106-WP02 for City of La Porte	0	0	5.380420685	0.553709805

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000635	Little Cedar Bayou Flood Risk Reduction Project	An evaluation in the F216-00-00 sub watershed to further advance the prior findings of the feasibility analysis	Harris	06-02-0402040100, 06-02-0401040706	Project Planning	3.264745	Riverine, Coastal	Harris County Flood Control District (HCFCD)
06-51-0000000636	South Acres Tributary Channel Conveyance Improvements and Detention	Evaluation in the C124 sub watershed following the C124-00-00-P001 feasibility analysis	Harris	06-02-0401040502, 06-02-0401040501	Project Planning	0.998342	Riverine	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000635	Little Cedar Bayou Flood Risk Reduction Project	Harris, La Porte, San Jacinto Region Boundary, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Coastal Water Authority, La Porte Area Water Authority, Gulf Coast Protection District	Yes	844000			673	492	3356	16
06-51-0000000636	South Acres Tributary Channel Conveyance Improvements and Detention	Harris, Houston, San Jacinto Region Boundary, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Coastal Water Authority, Harris County Improvement District 10A, Gulf Coast Protection District	Yes	844000			0	0	0	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000635	Little Cedar Bayou Flood Risk Reduction Project	0	0	15.2703476	0.664871097
06-51-0000000636	South Acres Tributary Channel Conveyance Improvements and Detention	0	0	0.317261696	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000637	Alief Area Flood Risk Management Study	Drainage Analysis of the Alief area in the Brays Bayou watershed	Harris	06-02-0401040401	Watershed Planning	2.887092	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000638	Detailed Evaluation of the Cole Creek Stormwater Detention Basin	Feasibility Study of Cole Creek Stormwater detention basin - E517-01-00 to define flood risks and mitigation alternatives	Harris	06-02-0401040302	Project Planning	5.208118	Riverine	Harris County Flood Control District (HCFCD)

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000637	Alief Area Flood Risk Management Study	Harris, Houston, San Jacinto Region Boundary, Gulf Coast Waste Disposal Authority, International Management District, Port of Houston Authority, Westchase District, Harris County Flood Control District, Houston-Galveston Area Council, Coastal Water Authority, Gulf Coast Protection District	Yes	844000			3398	3135	17283	31
06-51-0000000638	Detailed Evaluation of the Cole Creek Stormwater Detention Basin	Harris, Houston, San Jacinto Region Boundary, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, CY Fair Community Improvement District, Coastal Water Authority, Gulf Coast Protection District	Yes	844000			530	244	11401	3

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000637	Alief Area Flood Risk Management Study	0	0	32.34705353	1.547471523
06-51-0000000638	Detailed Evaluation of the Cole Creek Stormwater Detention Basin	0	0	14.47544956	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000639	Cypress Trace Stormwater Detention Basin	Feasibility Study of Trace Stormwater Detention Basin - K500-Future Project to define flood risks and mitigation alternatives	Harris	06-02-0401020107	Project Planning	22.67884	Riverine	Harris County Flood Control District (HCFCD)
06-51-0000000640	Conservation Easements for Natural and Agricultural Lands in the Floodplain	Study conserving lands in 100- and 500-year floodplains. Focus on agricultural lands in the 13-county Texas Coastal Prairie Initiative. Identify eligible lands, develop conservation terms, estimate values, and review federal program compatibility.	Brazoria, Galveston, Chambers, Harris, Jefferson, Orange, Hardin		Project Planning	12949.4	Riverine, Coastal	Coastal Prairie Conservancy
06-51-0000000641	Caney Creek Detention at FM 1097	Study to determine the feasibility of the implementation of a dry dam detention facility near FM 1097 on Caney Creek to reduce flooding for structures and roadways along Caney Creek.	Harris, Montgomery, Walker	06-02-0401030110, 06-02-0401010401, 06-02-0401010403, 06-02-0401030104, 06-02-0401030101, 06-02-0401030102, 06-02-0401030103, 06-02-0401030105, 06-02-0401030106, 06-02-0401030107, 06-02-0401030109, 06-02-0401010204, 06-02-0401010404, 06-02-0401010501, 06-02-0401030402	Project Planning	214.9429	Riverine	San Jacinto River Authority
06-51-0000000642	Lake Creek - Caney Creek Detention	Study to determine the feasibility of the implementation of a dry dam detention facility along Caney Creek, a tributary to Lake Creek, to reduce flooding for structures and roadways along Caney and Lake Creek.	Harris, Montgomery, Grimes		Project Planning	455.2768	Riverine	San Jacinto River Authority
06-51-0000000643	Lake Creek - Little Caney Creek Detention	Study to determine the feasibility of the implementation of a dry dam detention facility along Little Caney Creek, a tributary to Lake Creek, to reduce flooding for structures and roadways along Little Caney and Lake Creek.	Harris, Montgomery, Grimes		Project Planning	455.2768	Riverine	San Jacinto River Authority

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000639	Cypress Trace Stormwater Detention Basin	Harris, Houston, San Jacinto Region Boundary, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, North Harris County Regional Water Authority, CNP Utility District, Coastal Water Authority, Harris County WCID 110, Gulf Coast Protection District	Yes	844000			1317	1128	4260	18
06-51-0000000640	Conservation Easements for Natural and Agricultural Lands in the Floodplain	Coastal Prairie Conservancy	No	844000			213645	179172	734477	3061
06-51-0000000641	Caney Creek Detention at FM 1097	San Jacinto River Authority	No	692000			5733	4674	9754	14
06-51-0000000642	Lake Creek - Caney Creek Detention	San Jacinto River Authority	No	692000			5764	4577	15738	81
06-51-0000000643	Lake Creek - Little Caney Creek Detention	San Jacinto River Authority	No	692000			5764	4577	15738	81

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000639	Cypress Trace Stormwater Detention Basin	0	0	25.84490967	7.958690166
06-51-0000000640	Conservation Easements for Natural and Agricultural Lands in the Floodplain	144	144	3712.140625	17828.13477
06-51-0000000641	Caney Creek Detention at FM 1097	15	15	102.9961014	108.7574768
06-51-0000000642	Lake Creek - Caney Creek Detention	11	11	157.7248077	749.3435059
06-51-0000000643	Lake Creek - Little Caney Creek Detention	11	11	157.7248077	749.3435059

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000644	Lake Creek - Garrett's Creek Detention	Study to determine the feasibility of the implementation of a dry dam detention facility along Garrett's Creek, a tributary to Lake Creek, to reduce flooding for structures and roadways along Garrett's and Lake Creek.	Harris, Montgomery, Grimes		Project Planning	455.2768	Riverine	San Jacinto River Authority
06-51-0000000645	Peach Creek Detention at N Walker Rd	Study to determine the feasibility of the implementation of a dry dam detention facility along Peach and Boggy Creek near N Walker Rd to reduce flooding for structures and roadways along Peach Creek.	Liberty, Montgomery, San Jacinto, Walker	06-02-0401030110, 06-02-0401030108, 06-02-0401030101, 06-02-0401030102, 06-02-0401030103, 06-02-0401030105, 06-02-0401030106, 06-02-0401030107, 06-02-0401030109, 06-02-0401030402, 06-02-0401030303, 06-02-0401030304, 06-02-0401030401	Project Planning	157.9483	Riverine	San Jacinto River Authority
06-51-0000000646	Peach Creek Detention at SH 105	Study to determine the feasibility of the implementation of a dry dam detention facility along Peach Creek near SH 105 to reduce flooding for structures and roadways along Peach Creek.	Liberty, Montgomery, San Jacinto, Walker	06-02-0401030110, 06-02-0401030108, 06-02-0401030101, 06-02-0401030102, 06-02-0401030103, 06-02-0401030105, 06-02-0401030106, 06-02-0401030107, 06-02-0401030109, 06-02-0401030402, 06-02-0401030303, 06-02-0401030304, 06-02-0401030401	Project Planning	157.9483	Riverine	San Jacinto River Authority
06-51-0000000647	Spring Creek Woodlands Channelization (200-ft)	Study to determine the feasibility of Spring Creek conveyance improvements from Kuykendahl Road to Willow Creek confluence to reduce flooding for surrounding structures and roadways.	Harris, Waller, Montgomery, Grimes		Project Planning	390.7018	Riverine	San Jacinto River Authority
06-51-0000000648	Spring Creek I-45 Channelization	Study to determine the feasibility of Spring Creek conveyance improvements from I-45 to approximately 4 miles downstream of Riley Fuzzel Road to reduce flooding for surrounding structures and roadways.	Harris, Waller, Montgomery, Grimes		Project Planning	390.7018	Riverine	San Jacinto River Authority

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000644	Lake Creek - Garrett's Creek Detention	San Jacinto River Authority	No	692000			5764	4577	15738	81
06-51-0000000645	Peach Creek Detention at N Walker Rd	San Jacinto River Authority	No	692000			2966	2357	4495	0
06-51-0000000646	Peach Creek Detention at SH 105	San Jacinto River Authority	No	692000			2966	2357	4495	0
06-51-0000000647	Spring Creek Woodlands Channelization (200-ft)	San Jacinto River Authority	No	692000			4202	3447	17090	44
06-51-0000000648	Spring Creek I-45 Channelization	San Jacinto River Authority	No	692000			4202	3447	17090	44

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000644	Lake Creek - Garrett's Creek Detention	11	11	157.7248077	749.3435059
06-51-0000000645	Peach Creek Detention at N Walker Rd	9	9	77.53902435	27.79706573
06-51-0000000646	Peach Creek Detention at SH 105	9	9	77.53902435	27.79706573
06-51-0000000647	Spring Creek Woodlands Channelization (200-ft)	27	27	106.5066299	233.1332703
06-51-0000000648	Spring Creek I-45 Channelization	27	27	106.5066299	233.1332703

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000649	West Fork San Jacinto River SH 242 Channelization	Study to determine the feasibility of West Fork San Jacinto River channelization near SH 242 to reduce flooding for surrounding structures and roadways.	Harris, Montgomery	06-02-0401030110, 06-02-0401010401, 06-02-0401010502, 06-02-0401010402, 06-02-0401010403, 06-02-0401020212, 06-02-0401020213, 06-02-0401030105, 06-02-0401010404, 06-02-0401010501, 06-02-0401030402, 06-02-0402030102, 06-02-0401040702, 06-02-0401040602, 06-02-0401040704	Project Planning	179.923	Riverine	San Jacinto River Authority
06-51-0000000650	East Fork San Jacinto River Winters Bayou Detention	Study to determine the feasibility of the implementation of a dry dam detention facility along Winters Bayou to reduce flooding for structures and roadways along the East Fork of the San Jacinto River.	Harris, Liberty, Montgomery, San Jacinto, Walker		Project Planning	408.8116	Riverine	San Jacinto River Authority
06-51-0000000651	West Fork San Jacinto River Kingwood Benching	Study to determine the feasibility of West Fork San Jacinto River channelization from I-69 to Lake Houston Parkway to reduce flooding for surrounding structures and roadways.	Harris, Montgomery	06-02-0401030110, 06-02-0401010401, 06-02-0401010502, 06-02-0401010402, 06-02-0401010403, 06-02-0401020212, 06-02-0401020213, 06-02-0401030105, 06-02-0401010404, 06-02-0401010501, 06-02-0401030402, 06-02-0402030102, 06-02-0401040702, 06-02-0401040602, 06-02-0401040704	Project Planning	179.9219	Riverine	San Jacinto River Authority
06-51-0000000652	Peach Creek Channelization at I-69 (I-59)	Study to determine the feasibility of Peach Creek channelization from I-69 to FM 1485 to reduce flooding for surrounding structures and roadways.	Liberty, Montgomery, San Jacinto, Walker	06-02-0401030110, 06-02-0401030108, 06-02-0401030101, 06-02-0401030102, 06-02-0401030103, 06-02-0401030105, 06-02-0401030106, 06-02-0401030107, 06-02-0401030109, 06-02-0401030402, 06-02-0401030303, 06-02-0401030304, 06-02-0401030401	Project Planning	157.9483	Riverine	San Jacinto River Authority

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000649	West Fork San Jacinto River SH 242 Channelization	San Jacinto River Authority	No	692000			7857	6666	20500	83
06-51-0000000650	East Fork San Jacinto River Winters Bayou Detention	San Jacinto River Authority	No	692000			3722	2570	3935	3
06-51-0000000651	West Fork San Jacinto River Kingwood Benching	San Jacinto River Authority	No	692000			7857	6666	20500	83
06-51-0000000652	Peach Creek Channelization at I-69 (I-59)	San Jacinto River Authority	No	692000			2966	2357	4495	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000649	West Fork San Jacinto River SH 242 Channelization	4	4	163.3959351	404.105072
06-51-0000000650	East Fork San Jacinto River Winters Bayou Detention	1	1	124.7621613	139.5016632
06-51-0000000651	West Fork San Jacinto River Kingwood Benching	4	4	163.3959351	404.105072
06-51-0000000652	Peach Creek Channelization at I-69 (I-59)	9	9	77.53902435	27.79706573

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000653	Caney Creek Detention at SH 105	Study to determine the feasibility of the implementation of a dry dam detention facility near SH 105 on Caney Creek to reduce flooding for structures and roadways along Caney Creek.	Harris, Montgomery, Walker	06-02-0401030110, 06-02-0401010401, 06-02-0401010403, 06-02-0401030104, 06-02-0401030101, 06-02-0401030102, 06-02-0401030103, 06-02-0401030105, 06-02-0401030106, 06-02-0401030107, 06-02-0401030109, 06-02-0401010204, 06-02-0401010404, 06-02-0401010501, 06-02-0401030402	Project Planning	214.9429	Riverine	San Jacinto River Authority
06-51-0000000654	Caney Creek Channelization at I-69	Study to determine the feasibility of Caney Creek channelization from I-69 to confluence with the East Fork San Jacinto River to reduce flooding for surrounding structures and roadways.	Harris, Montgomery, Walker	06-02-0401030110, 06-02-0401010401, 06-02-0401010403, 06-02-0401030104, 06-02-0401030101, 06-02-0401030102, 06-02-0401030103, 06-02-0401030105, 06-02-0401030106, 06-02-0401030107, 06-02-0401030109, 06-02-0401010204, 06-02-0401010404, 06-02-0401010501, 06-02-0401030402	Project Planning	214.9429	Riverine	San Jacinto River Authority

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000653	Caney Creek Detention at SH 105	San Jacinto River Authority	No	692000			5733	4674	9754	14
06-51-0000000654	Caney Creek Channelization at I-69	San Jacinto River Authority	No	692000			5733	4674	9754	14

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000653	Caney Creek Detention at SH 105	15	15	102.9961014	108.7574768
06-51-0000000654	Caney Creek Channelization at I-69	15	15	102.9961014	108.7574768

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000655	Upper San Jacinto River Basin Reservoir Feasibility Study	Study to find the best location for a dual-purpose reservoir in the Upper San Jacinto River Basin. Focus on East Fork San Jacinto River, Winters Bayou, and Peach Creek. Consider real estate, environmental impacts, cost, and benefits.	Liberty, Montgomery, San Jacinto, Walker		Project Planning	747.4085	Riverine	San Jacinto River Authority
06-51-0000000656	Pinebrook Drainage Improvements Study	Hydrologic and hydraulic modeling to identify opportunities to improve conveyance and mitigate flood risk in the Pinebrook subdivision.	Grimes	06-02-0401010306, 06-02-0401020206	Watershed Planning	9.960354	Riverine	Grimes County
06-51-0000000657	Flagtail Creek - Lake Creek and Tributaries Crossing Improvement Study	Study crossings in the Flagtail Creek - Lake Creek sub-watershed (including CR 229, CR 233, CR 231, CR 234, CR 232, CR 262, CR 232A, CR 236, CR 217, CR 242, CR 235, and CR 216) and identify projects to improve undersized culverts and low water crossings.	Grimes	06-02-0302020501, 06-02-0401010101, 06-02-0401010103, 06-02-0401010301, 06-02-0401010302, 06-02-0701030801, 06-02-0701030705	Project Planning	42.18446	Riverine	Grimes County

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000655	Upper San Jacinto River Basin Reservoir Feasibility Study	Liberty, Montgomery, San Jacinto, Walker, Cleveland, Huntsville, North Cleveland, Cut and Shoot, San Jacinto Region Boundary, San Jacinto River Authority, Liberty County Drainage District, Deep East Texas Council of Governments, Houston-Galveston Area Council, East Montgomery County Improvement District, Phelps SUD, Montgomery County MUD 38	No	1978000			10458	7960	14582	15
06-51-0000000656	Pinebrook Drainage Improvements Study	Grimes, San Jacinto Region Boundary, Brazos Valley Council of Governments, San Jacinto River Authority	No	85000			5	2	2	0
06-51-0000000657	Flagtail Creek - Lake Creek and Tributaries Crossing Improvement Study	Montgomery, Grimes, San Jacinto Region Boundary, Brazos Valley Council of Governments, San Jacinto River Authority, Brazos River Authority, Houston-Galveston Area Council	No	532000			22	4	11	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000655	Upper San Jacinto River Basin Reservoir Feasibility Study	21	21	275.1080627	245.2362976
06-51-0000000656	Pinebrook Drainage Improvements Study	1	1	0.727228999	1.282119036
06-51-0000000657	Flagtail Creek - Lake Creek and Tributaries Crossing Improvement Study	0	0	2.930186749	25.60841751

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000658	Garretts Creek and Tributaries Crossing Improvement Study	Study crossings in the Garretts Creek sub-watershed (including CR 222, CR 237, CR 220, CR 217, CR 218, Fairview Cemetery Road, CR 240, and CR 212) and identify projects to improve undersized culverts and low water crossings.	Grimes	06-02-0401010301, 06-02-0401010302, 06-02-0401010303, 06-02-0401010304, 06-02-0701030802	Project Planning	31.16293	Riverine	Grimes County
06-51-0000000659	Haynie Creek - Little Caney Creek and Tributaries Crossing Improvement Study	Study crossings in the Haynie Creek - Little Caney Creek sub-watershed (including CR 215, CR 211, CR 213, CR 247, CR 210, and Granite Ridge Drive) and identify projects to improve undersized culverts and low water crossings.	Grimes	06-02-0401010302, 06-02-0401010303, 06-02-0401010304, 06-02-0401010305, 06-02-0401010306, 06-02-0701030802	Project Planning	30.8555	Riverine	Grimes County
06-51-0000000660	Sand Creek - Caney Creek and Tributaries Crossing Improvement Study	Study crossings in the Sand Creek - Caney Creek sub-watershed (including CR 215, South Oaks Drive, CR 309, CR 208, CR 207, CR 209, CR 206, CR 313, CR 204, and CR 333) and identify projects to improve undersized culverts and low water crossings.	Grimes	06-02-0401010304, 06-02-0401010305, 06-02-0401010306, 06-02-0401020206, 06-02-0701010802	Project Planning	37.43401	Riverine	Grimes County
06-51-0000000661	Town of Dobbin - Lake Creek and Tributaries Crossing Improvement Study	Study crossings within the Town of Dobbin - Lake Creek sub watershed (including crossings Askew Road (2x), CR 204 (2x), and CR 203 (4x)) and identify projects to improve undersized culverts and low water crossings.	Grimes	06-02-0401010304, 06-02-0401010306, 06-02-0401020207, 06-02-0401020206	Project Planning	13.38552	Riverine	Grimes County

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000658	Garretts Creek and Tributaries Crossing Improvement Study	Montgomery, Grimes, San Jacinto Region Boundary, Brazos Valley Council of Governments, San Jacinto River Authority, Brazos River Authority, Houston-Galveston Area Council	No	393000			1	0	3	0
06-51-0000000659	Haynie Creek - Little Caney Creek and Tributaries Crossing Improvement Study	Montgomery, Grimes, San Jacinto Region Boundary, Brazos Valley Council of Governments, San Jacinto River Authority, Brazos River Authority, Houston-Galveston Area Council	No	380000			3	0	0	0
06-51-0000000660	Sand Creek - Caney Creek and Tributaries Crossing Improvement Study	Grimes, Plantersville, San Jacinto Region Boundary, Brazos Valley Council of Governments, San Jacinto River Authority, Brazos River Authority, Grimes County MUD 1	No	469000			12	5	9	0
06-51-0000000661	Town of Dobbin - Lake Creek and Tributaries Crossing Improvement Study	Montgomery, Grimes, Plantersville, San Jacinto Region Boundary, Brazos Valley Council of Governments, San Jacinto River Authority, Houston-Galveston Area Council	No	266000			21	8	20	0

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000658	Garretts Creek and Tributaries Crossing Improvement Study	0	0	1.090059757	20.15050125
06-51-0000000659	Haynie Creek - Little Caney Creek and Tributaries Crossing Improvement Study	0	0	1.083491564	10.46814537
06-51-0000000660	Sand Creek - Caney Creek and Tributaries Crossing Improvement Study	0	0	2.20019865	63.00517273
06-51-0000000661	Town of Dobbin - Lake Creek and Tributaries Crossing Improvement Study	0	0	0.073143601	25.45812225

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000662	Hurricane Creek - Mill Creek and Tributaries Crossing Improvement Study	Study crossings in the Hurricane Creek - Mill Creek sub-watershed (including Overhill Rd, Mill Creek Run, Magnolia Dr, Oak Forest Dr, Greenway Dr, Inwood Rd, Greenbriar Dr, Deerwood Dr, Vernadel Dr, CR 354, CR 351, CR 201, and more) to improve culverts	Grimes	06-02-0401010305, 06-02-0401010306, 06-02-0401020203, 06-02-0401020207, 06-02-0401020206, 06-02-0701010802, 06-02-0701010803	Project Planning	25.21354	Riverine	Grimes County
06-51-0000000663	Birch Creek - Walnut Creek and Tributaries Crossing Improvement Study	Study crossings in Birch Creek - Walnut Creek sub-watershed (various roads) to improve culverts.	Grimes	06-02-0401020202, 06-02-0401020203, 06-02-0401020206, 06-02-0701010803	Project Planning	17.05909	Riverine	Grimes County
06-51-0000000664	City of Galveston stormwater drainage system improvements	Develop and implement stormwater drainage system improvements including, but not limited to, pumps, motors, electrical systems, and elevated storage tanks throughout the City.	Galveston	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040500	Project Planning	211.0791	Riverine, Urban or Local	City of Galveston
06-51-0000000665	City of Houston-Upgrade undersized stormwater drains	Upgrade undersized stormwater drains and culverts	Harris, Brazoria, Fort Bend, Waller, Montgomery		Project Planning	669.2675	Urban or Local	City of Houston

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000662	Hurricane Creek - Mill Creek and Tributaries Crossing Improvement Study	Waller, Montgomery, Grimes, Plantersville, Todd Mission, San Jacinto Region Boundary, Brazos Valley Council of Governments, San Jacinto River Authority, Brazos River Authority, Houston-Galveston Area Council, Magnolia Woods MUD 1, Magnolia Woods MUD 1	No	254000			59	41	47	0
06-51-0000000663	Birch Creek - Walnut Creek and Tributaries Crossing Improvement Study	Waller, Grimes, Todd Mission, San Jacinto Region Boundary, Brazos Valley Council of Governments, San Jacinto River Authority, Brazos River Authority, Houston-Galveston Area Council	No	296000			26	17	12	0
06-51-0000000664	City of Galveston stormwater drainage system improvements	City of Galveston		1000000	General Funds, CDBG, TWDB, Enterprise Funds					
06-51-0000000665	City of Houston- Upgrade undersized stormwater drains	City of Houston		3000000	Local Department Budget, Staff time, Bonds, Tax Revenue; State and Federal Grants: FEMA HMA, CDBG, BRIC, PA Section 406 Funds, TWDB Flood Infrastructure Fund (FIF)					

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000662	Hurricane Creek - Mill Creek and Tributaries Crossing Improvement Study	1	1	3.150770426	4.942914963
06-51-0000000663	Birch Creek - Walnut Creek and Tributaries Crossing Improvement Study	0	0	0.26560384	0.919931114
06-51-0000000664	City of Galveston stormwater drainage system improvements				
06-51-0000000665	City of Houston-Upgrade undersized stormwater drains				

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000666	City of Houston - Increase Drainage Capacity	Increase drainage capacity; add stormwater detention and/or retention basins as deemed necessary to reduce flood risk	Harris, Brazoria, Fort Bend, Waller, Montgomery		Project Planning	669.2675	Riverine, Urban or Local	City of Houston
06-51-0000000667	City of Houston-Improve Drainage System	Improve drainage systems as deemed necessary to reduce flood risk.	Harris, Brazoria, Fort Bend, Waller, Montgomery		Project Planning	669.2675	Urban or Local	City of Houston
06-51-0000000668	Kingwood Diversion Channel Improvements	Kingwood Diversion Channel Improvements: Expansion of the channel to increase capacity and protect the community from flooding	Harris, Montgomery	06-02-0401010502, 06-02-0401010501, 06-02-0401010404, 06-02-0401020213, 06-02-0401030110, 06-02-0401030205, 06-02-0401030402	Project Planning	43.1114	Riverine, Urban or Local	City of Houston

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000666	City of Houston - Increase Drainage Capacity	City of Houston		10000000	Local Department Budget, Staff time, Bonds, Tax Revenue; State and Federal Grants: FEMA HMA, CDBG, BRIC, PA Section 406 Funds, TWDB Flood Infrastructure Fund (FIF), Silver Jackets, Small Flood Control Projects (USACE Section 205), Texas Infrastructure Resiliency Fund (TIRF)					
06-51-0000000667	City of Houston- Improve Drainage System	City of Houston		10000000	Local Department Budget, Staff time, Bonds, Tax Revenue; State and Federal Grants: FEMA HMA, CDBG, BRIC, PA Section 406 Funds, Small Flood Control Projects (USACE Section 205), TWDB Flood Infrastructure Fund (FIF)					
06-51-0000000668	Kingwood Diversion Channel Improvements	City of Houston		10000000	Local Department Budget, Staff time, Bonds, Tax Revenue; State and Federal Grants: FEMA HMA, BRIC, TDEM, GLO, TWDB					

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000666	City of Houston - Increase Drainage Capacity				
06-51-0000000667	City of Houston- Improve Drainage System				
06-51-0000000668	Kingwood Diversion Channel Improvements				

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000669	City of Houston Storm Water Action Team Projects	Storm Water Action Team projects. Provide flood relief to neighborhoods on improvements such as: ditch widening; driveway culvert replacement; inlet replacement; side lot swales; and storm sewer line improvements.	Harris, Brazoria, Fort Bend, Waller, Montgomery		Project Planning	669.2675	Riverine, Urban or Local	City of Houston
06-51-0000000670	City of Houston Storm Sewer Evaluation	Evaluate and upgrade storm sewers to manage runoff from existing drainage areas. Upsize pipes to meet 2-year storm design criteria. Analyze sheet flow and implement solutions to safely convey 100-year storm events, minimizing structural flooding risks.	Harris, Brazoria, Fort Bend, Waller, Montgomery		Project Planning	669.2675	Urban or Local	City of Houston
06-51-0000000671	City of Houston-Enhance Storm Surge Maps	Enhance maps for storm surge vulnerability by compiling elevation data from field surveys and records into a database. Identify at-risk facilities and transport links to guide mitigation strategies and boost resilience against future storm surge impacts.	Harris, Brazoria, Fort Bend, Waller, Montgomery		Watershed Planning	669.2675	Riverine	City of Houston
06-51-0000000672	City of Baytown Wetland Pond Development	Develop and implement wetland ponds to create habitats for plant life and stormwater working in conjunction with park development projects to mitigate natural hazards impacting the local environment.	Chambers, Harris	06-02-0401040705, 06-02-0401040706, 06-02-0402030105, 06-02-0402030106, 06-02-0402030200	Project Planning	38.04981	Riverine, Coastal	City of Baytown

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000669	City of Houston Storm Water Action Team Projects	City of Houston		10000000	Local Department Budget, Staff time, Bonds, Tax Revenue; State and Federal Grants: ReBuild Houston, FEMA HMA, CDBG, BRIC, PA Section 406 Funds, TWDB Flood Infrastructure Fund (FIF), Silver Jackets, Small Flood Control Projects (USACE Section 205), TWDB Texas Infrastructure Resiliency Fund (TIRF)					
06-51-0000000670	City of Houston Storm Sewer Evaluation	City of Houston		30000000	Local Department Budget, Staff time, Bonds, Tax Revenue; State and Federal Grants: FEMA HMA, EPA American Recovery and Reinvestment Act (ARRA), TWDB DFund					
06-51-0000000671	City of Houston-Enhance Storm Surge Maps	City of Houston		1500000	Local Department Budget, Staff time, Bonds, Tax Revenue; State and Federal Grants: FEMA Emergency Management Performance Grant (EMPG), TWDB					
06-51-0000000672	City of Baytown Wetland Pond Development	City of Baytown		100000	Local Budget; State Grants (GLO, TAMFS, TDA, TDEM, TWDB, TXDOT); Federal Grants (FEMA HMA Grants, CDBG, CDC, DOH, EDA, EPA, HUD, NFIP, NFWF, NOAA, NRCS, SBA, USACE, USDA, USFS, USFWS)					

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000669	City of Houston Storm Water Action Team Projects				
06-51-0000000670	City of Houston Storm Sewer Evaluation				
06-51-0000000671	City of Houston-Enhance Storm Surge Maps				
06-51-0000000672	City of Baytown Wetland Pond Development				

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000673	City of Baytown Stormwater System Improvements	Improve Underperforming Stormwater System Collection/Conveyance Components to ensure system functions in accordance with design to mitigate flooding; including installation of submersible pumps.	Chambers, Harris	06-02-0401040705, 06-02-0401040706, 06-02-0402030105, 06-02-0402030106, 06-02-0402030200	Project Planning	38.04981	Urban or Local	City of Baytown
06-51-0000000674	Stormwater drainage system improvements from Watershed to the Bay	Develop and implement stormwater drainage system improvements from Watershed to the Bay, including possible pump station and capacity increases for future conditions.	Galveston	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040500	Project Planning	211.0791	Urban or Local	City of Galveston
06-51-0000000675	Stormwater drainage system improvements from Strand/Market streets to Galveston Ship Channel	Develop and implement stormwater drainage system improvements from Strand/Market streets to Galveston Ship Channel, including outfalls, box culverts, sumps, and capacity increases for future conditions.	Galveston	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040500	Project Planning	211.0791	Urban or Local	City of Galveston
06-51-0000000676	Stormwater, sanitary sewer, and water system improvements for 23rd Street	Develop and implement stormwater, sanitary sewer, and water system improvements for 23rd Street, including possible increases in capacity for future conditions.	Galveston	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040500	Project Planning	211.0791	Urban or Local	City of Galveston
06-51-0000000677	Stormwater, sanitary sewer, and water system improvements for 25th Street	Develop and implement stormwater, sanitary sewer, and water system improvements for 25th Street, including possible increases in capacity for future conditions.	Galveston	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040500	Project Planning	211.0791	Urban or Local	City of Galveston
06-51-0000000678	Stormwater drainage system improvements for 45th street	Improve 45th Street drainage with new storm sewers and potential main extension for future expansion. Upgrade landscape, hardscape, sidewalks, curbs, and water/sewer utilities to support long-term infrastructure and neighborhood resilience.	Galveston	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040500	Project Planning	211.0791	Urban or Local	City of Galveston
06-51-0000000679	Stormwater drainage system improvements for 49th Street	Develop and implement stormwater drainage system improvements for 49th Street, including capacity increases for future conditions	Galveston	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040500	Project Planning	211.0791	Urban or Local	City of Galveston
06-51-0000000680	Stormwater drainage system improvements for 53rd Street to Seawall Boulevard	Develop and implement stormwater drainage system improvements for 53rd Street to Seawall Boulevard, including possible capacity increases for future conditions	Galveston	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040500	Project Planning	211.0791	Urban or Local	City of Galveston

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000673	City of Baytown Stormwater System Improvements	City of Baytown		1000000	Local Budget; State Grants (GLO, TAMFS, TDA, TDEM, TWDB, TXDOT); Federal Grants (FEMA HMA Grants, CDBG, CDC, DOH, EDA, EPA, HUD, NFIP, NFWF, NOAA, NRCS, SBA, USACE, USDA, USFS, USFWS)					
06-51-0000000674	Stormwater drainage system improvements from Watershed to the Bay	City of Galveston		11000000	General Funds, Enterprise Funds, Bond Funds, FEMA, GLO, CDBG, TWDB					
06-51-0000000675	Stormwater drainage system improvements from Strand/Market streets to Galveston Ship Channel	City of Galveston		28000000	General Funds, Enterprise Funds, Bond Funds, FEMA, GLO, CDBG, TWDB					
06-51-0000000676	Stormwater, sanitary sewer, and water system improvements for 23rd Street	City of Galveston		4500000	General Funds, Enterprise Funds, Bond Funds, FEMA, GLO, CDBG, TWDB					
06-51-0000000677	Stormwater, sanitary sewer, and water system improvements for 25th Street	City of Galveston		8000000	General Funds, Enterprise Funds, Bond Funds, FEMA, GLO, CDBG, TWDB					
06-51-0000000678	Stormwater drainage system improvements for 45th street	City of Galveston		13000000	General Funds, Enterprise Funds, Bond Funds, FEMA, GLO, CDBG, TWDB					
06-51-0000000679	Stormwater drainage system improvements for 49th Street	City of Galveston		6000000	General Funds, Enterprise Funds, Bond Funds, FEMA, GLO, CDBG, TWDB					
06-51-0000000680	Stormwater drainage system improvements for 53rd Street to Seawall Boulevard	City of Galveston		5000000	General Funds, Enterprise Funds, Bond Funds, FEMA, GLO, CDBG, TWDB					

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000673	City of Baytown Stormwater System Improvements				
06-51-0000000674	Stormwater drainage system improvements from Watershed to the Bay				
06-51-0000000675	Stormwater drainage system improvements from Strand/Market streets to Galveston Ship Channel				
06-51-0000000676	Stormwater, sanitary sewer, and water system improvements for 23rd Street				
06-51-0000000677	Stormwater, sanitary sewer, and water system improvements for 25th Street				
06-51-0000000678	Stormwater drainage system improvements for 45th street				
06-51-0000000679	Stormwater drainage system improvements for 49th Street				
06-51-0000000680	Stormwater drainage system improvements for 53rd Street to Seawall Boulevard				

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000681	Stormwater drainage system improvements for 73rd Street system	Develop and implement stormwater drainage system improvements for 73rd Street system, including possible new outfall on Avenue N-1/2 and capacity increases for future conditions.	Galveston	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040500	Project Planning	211.0791	Urban or Local	City of Galveston
06-51-0000000682	Stormwater drainage system improvements for 83rd Street	Develop and implement stormwater drainage system improvements for 83rd Street, including capacity increases for future conditions.	Galveston	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040500	Project Planning	211.0791	Urban or Local	City of Galveston
06-51-0000000683	Stormwater drainage system improvements for 103 rd Street	Develop and implement stormwater drainage system improvements for 103 rd Street, including capacity increases for future conditions.	Galveston	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040500	Project Planning	211.0791	Urban or Local	City of Galveston
06-51-0000000684	Schaper Drive Stormwater drainage system	Develop and implement stormwater drainage system improvements for Schaper Drive , including capacity increases for future conditions	Galveston	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040500	Project Planning	211.0791	Urban or Local	City of Galveston
06-51-0000000685	Church Street from 33rd to 37th Streets Drainage System Improvements	Develop and implement stormwater drainage system improvements for Church Street from 33rd to 37th Streets, including a possible Gate valve at outfall and capacity increases for future conditions.	Galveston	06-02-0402040300, 06-02-0402040200, 06-02-0402040400, 06-02-0402040500	Project Planning	211.0791	Urban or Local	City of Galveston
06-51-0000000686	Harris County Retention Pond Development	Develop and install retention ponds to reduce flood damages at the Hospital's or District's critical care facilities	Galveston, Chambers, Harris, Liberty, Brazoria, Fort Bend, Waller, Montgomery		Project Planning	1742.028	Urban or Local	Harris County
06-51-0000000687	HCFCD G103-00-00-P004 Project S1	Large box culvert storm sewers are proposed as part of this alternative within County and TxDOT roadway right-of-way to provide conveyance for the sheet flow across the SJRA canal.	Harris	06-02-0401010502, 06-02-0401010501, 06-02-0401040705, 06-02-0401040704, 06-02-0402030104, 06-02-0402030102	Project Planning	29.85378	Riverine, Urban or Local	Harris County Flood Control District
06-51-0000000688	HCFCD G103-00-00-P004 Project S2	A series of large box culvert storm sewers in conjunction with an approximately 600 feet long open channel is proposed along the east side of the SJRA canal. A new SJRA siphon at the intersection of Barret Road is also proposed to replace culerts	Harris	06-02-0401010502, 06-02-0401010501, 06-02-0401040705, 06-02-0401040704, 06-02-0402030104, 06-02-0402030102	Project Planning	29.85378	Riverine, Urban or Local	Harris County Flood Control District

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000681	Stormwater drainage system improvements for 73rd Street system	City of Galveston		3500000	General Funds, Enterprise Funds, Bond Funds, FEMA, GLO, CDBG, TWDB					
06-51-0000000682	Stormwater drainage system improvements for 83rd Street	City of Galveston		100000	General Funds, Enterprise Funds, Bond Funds, FEMA, GLO, CDBG, TWDB					
06-51-0000000683	Stormwater drainage system improvements for 103 rd Street	City of Galveston		100000	General Funds, Enterprise Funds, Bond Funds, FEMA, GLO, CDBG, TWDB					
06-51-0000000684	Schaper Drive Stormwater drainage system	City of Galveston		100000	General Funds, Enterprise Funds, Bond Funds, FEMA, GLO, CDBG, TWDB					
06-51-0000000685	Church Street from 33rd to 37th Streets Drainage System Improvements	City of Galveston		3000000	General Funds, Enterprise Funds, Bond Funds, FEMA, GLO, CDBG, TWDB					
06-51-0000000686	Harris County Retention Pond Development	Harris County			Grant funds					
06-51-0000000687	HCFCD G103-00-00-P004 Project S1	Harris County Flood Control District								
06-51-0000000688	HCFCD G103-00-00-P004 Project S2	Harris County Flood Control District								

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000681	Stormwater drainage system improvements for 73rd Street system				
06-51-0000000682	Stormwater drainage system improvements for 83rd Street				
06-51-0000000683	Stormwater drainage system improvements for 103 rd Street				
06-51-0000000684	Schaper Drive Stormwater drainage system				
06-51-0000000685	Church Street from 33rd to 37th Streets Drainage System Improvements				
06-51-0000000686	Harris County Retention Pond Development				
06-51-0000000687	HCFCD G103-00-00-P004 Project S1				
06-51-0000000688	HCFCD G103-00-00-P004 Project S2				

Table 12 Identified flood management evaluations

FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor
06-51-0000000689	HCFCD G103-00-00-P004 Project S3	An enclosed box culvert system is proposed along St. Cecilia Drive that starts at the intersection of Zinn Drive and extends roughly 1400 feet south ending at the location of existing Siphon 21 at tributary G103-05-00.	Harris	06-02-0401010502, 06-02-0401010501, 06-02-0401040705, 06-02-0401040704, 06-02-0402030104, 06-02-0402030102	Project Planning	29.85378	Riverine, Urban or Local	Harris County Flood Control District
06-51-0000000690	HCFCD G103-00-00-P004 Project S4	An enclosed system is proposed to be installed along Holly Road from the intersection of Cypress Drive and connect to a new 500-ft channel extending to tributary G103-05-02.1.	Harris	06-02-0401010502, 06-02-0401010501, 06-02-0401040705, 06-02-0401040704, 06-02-0402030104, 06-02-0402030102	Project Planning	29.85378	Riverine, Urban or Local	Harris County Flood Control District
06-51-0000000691	HCFCD G103-00-00-P004 Project N1-2/N1-2	1) Project N1-1 consists of an enlarged 10-foot-wide concrete-lined channel located inside the existing grass-lined channel from its upstream limit, west of FM 2100, to an existing structure at Beaver Dam Drive near Lake Houston. 2) Project N1-2 consists	Harris	06-02-0401010502, 06-02-0401010501, 06-02-0401040705, 06-02-0401040704, 06-02-0402030104, 06-02-0402030102	Project Planning	29.85378	Riverine, Urban or Local	Harris County Flood Control District
06-51-0000000692	CR-89 between Old Chocolate Bayou Road and Patterson Road	Drainage improvement analysis for CR-89	Brazoria	06-02-0402040400	Project Planning	1.581316	Urban or Local	City of Manvel
06-51-0000000693	Fm-1128 at Scott Street	Drainage improvement analysis for FM-1128	Brazoria	06-02-0402040200, 06-02-0402040400	Project Planning	4.81641	Urban or Local	City of Manvel
06-51-0000000694	Mustang Bayou Regional Detention Pond	Mustang Bayou Regional Detention Pond	Brazoria	06-02-0402040400, 06-02-0402040100	Project Planning	5.641226	Urban or Local	City of Manvel

Table 12 Identified flood management evaluations

FME ID	FME Name	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)
06-51-0000000689	HCFCD G103-00-00-P004 Project S3	Harris County Flood Control District								
06-51-0000000690	HCFCD G103-00-00-P004 Project S4	Harris County Flood Control District								
06-51-0000000691	HCFCD G103-00-00-P004 Project N1-2/N1-2	Harris County Flood Control District								
06-51-0000000692	CR-89 between Old Chocolate Bayou Road and Patterson Road	City of Manvel		480000						
06-51-0000000693	Fm-1128 at Scott Street	City of Manvel		1110000						
06-51-0000000694	Mustang Bayou Regional Detention Pond	City of Manvel								

Table 12 Identified flood management evaluations

FME ID	FME Name	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
06-51-0000000689	HCFCD G103-00-00-P004 Project S3				
06-51-0000000690	HCFCD G103-00-00-P004 Project S4				
06-51-0000000691	HCFCD G103-00-00-P004 Project N1-2/N1-2				
06-51-0000000692	CR-89 between Old Chocolate Bayou Road and Patterson Road				
06-51-0000000693	Fm-1128 at Scott Street				
06-51-0000000694	Mustang Bayou Regional Detention Pond				

Appendix 4-B – Exhibit C – Table 13: Identified Potentially Feasible FMPs

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type
06-52-0000000026	Lower Clear Creek & Dickinson Bayou Flood Mitigation Plan - Lower Clear Creek Alternative 3	The LCC Alt. Combination 3 as proposed as part of the LCCDBFMP (2021), including detention channel benching, a diversion tunnel, capacity improvements, and an auxiliary opening.	06-20-0000000001, 06-20-0000000005 06-20-0000000006, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Brazoria, Galveston, Harris	06-02-0402040200, 06-02-0402040100	Comprehensive
06-52-0000000027	Brays Bayou Watershed Mitigation Project CDBG MIT Application - Bintliff Ditch Improvements D133-00-00 & Sharptown	Projects submitted as part of the CDBG MIT grant in the Brays Bayou Watershed which include regional channel and detention projects including D133 (Bintliff Ditch) and Sharpstown Drainage.	06-20-0000000001, 06-20-0000000005 06-20-0000000006, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040401	Comprehensive
06-52-0000000037	Sims Bayou CDBG MIT Application - South Post Oak SWDB C147/C547; South Shaver SWDB C506-01-00-E003; Salt Water Ditch SWDB & Channel Improvements C108-00-00	Projects submitted as part of the CDBG MIT grant in the Sims Bayou Watershed which include three (3) regional channel and detention projects including C147/C547, Saltwater Ditch, and C506.	06-20-0000000001, 06-20-0000000005 06-20-0000000006, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Fort Bend, Harris	06-02-0401040703, 06-02-0401040402 06-02-0401040502, 06-02-0401040501 06-02-0402040400, 06-02-0402040100	Comprehensive
06-52-0000000040	Halls Bayou Watershed Mitigation Application 1 - CDBG MIT	Projects submitted as part of the CDBG MIT grant in Halls Bayou which include five (5) regional channel and detention projects including C-28, C-41 Hardy West, C-41 Mainstem, C-30, and C-23.	06-20-0000000001, 06-20-0000000005 06-20-0000000006, 06-20-0000000011 06-20-0000000015	Harris	06-02-0401040605, 06-02-0401040601 06-02-0401040302, 06-02-0401040604 06-02-0401040606, 06-02-0401040304 06-02-0401040603, 06-02-0401040701	Comprehensive
06-52-0000000046	White Oak Bayou CDBG MIT Application Projects: Kolbe Road Drainage Improvements, Barwood, E132-00-00, Tower Oaks, & Little White Oak	Projects submitted as part of the CDBG MIT grant in the White Oak Bayou Watershed which include five (5) regional channel and detention projects including Kolbe Road, Barwood, E132-00-00, Tower Oaks, & Little White Oak Bayous.	06-20-0000000001, 06-20-0000000005 06-20-0000000006, 06-20-0000000011 06-20-0000000015	Harris	06-02-0401020104, 06-02-0401020106 06-02-0401040601, 06-02-0401040305 06-02-0401040302, 06-02-0401040604 06-02-0401040303, 06-02-0401040304 06-02-0401040301, 06-02-0401040701	Comprehensive
06-52-0000000056	Mary's Creek Lower, Middle, and Upper Segment	A part of the Pearland Master Drainage Plan (2019), this channel improvement alternative includes channel benching to increase conveyance capacity, bridge/culvert replacement to remove hydraulic restrictions, and regional detention to provide mitigation.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Brazoria, Galveston	06-02-0402040100	Comprehensive

Table 13 Identified Potentially Feasible Flood Mitigation Projects

								Flood Risk			
FMP ID	FMP Name	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk
06-52-0000000026	Lower Clear Creek & Dickinson Bayou Flood Mitigation Plan - Lower Clear Creek Alternative 3	109.51	Riverine	City of League City	Brazoria County, Galveston County, Harris County, Harris County Flood Control District Flood Control District	No	1150000000	22.07544136	11.45653439	3642	3035
06-52-0000000027	Brays Bayou Watershed Mitigation Project CDBG MIT Application - Bintliff Ditch Improvements D133-00-00 & Sharptown	128.21	Riverine	Harris County Flood Control District	Harris County, Harris County Flood Control District Flood Control District, City of Houston	Yes	107061000	0.616292179	0.431487024	267	182
06-52-0000000037	Sims Bayou CDBG MIT Application - South Post Oak SWDB C147/C547; South Shaver SWDB C506-01-00-E003; Salt Water Ditch SWDB & Channel Improvements C108-00-00	98.46	Riverine	Harris County Flood Control District	Harris County, Harris County Flood Control District Flood Control District, City of Houston	Yes	99653000	2.762929678	0.920091093	4367	4032
06-52-0000000040	Halls Bayou Watershed Mitigation Application 1 - CDBG MIT	44.45	Riverine	Harris County Flood Control District	Harris County, Houston-Galveston Area Council, Harris County Flood Control District Flood Control District, City of Houston, Gulf Coast Protection District	Yes	99653000	12.03630352	3.726129532	15541	13009
06-52-0000000046	White Oak Bayou CDBG MIT Application Projects: Kolbe Road Drainage Improvements, Barwood, E132-00-00, Tower Oaks, & Little White Oak	110.70	Urban or Local	Harris County Flood Control District	Harris County, Harris County Flood Control District Flood Control District, City of Jersey Village, City of Houston	Yes	120015000	2.306600094	1.034999967	2937	2413
06-52-0000000056	Mary's Creek Lower, Middle, and Upper Segment	17.14	Riverine	City of Pearland	Brazoria County, City of Pearland, City of Friendswood, Galveston County, West Brazoria County Drainage District Flood Control District	No	154040000	4.339000225	1.936241031	2711	2146

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Flood Risk							Reduction in Flood Risk		
FMP ID	FMP Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk
06-52-0000000026	Lower Clear Creek & Dickinson Bayou Flood Mitigation Plan - Lower Clear Creek Alternative 3	10260	18.00		9	118.6200027	9	16.11000061	1358	911	2610
06-52-0000000027	Brays Bayou Watershed Mitigation Project CDBG MIT Application - Bintliff Ditch Improvements D133-00-00 & Sharptown	6750	26.00		0	34.18999863	0	0.01	78	160	279
06-52-0000000037	Sims Bayou CDBG MIT Application - South Post Oak SWDB C147/C547; South Shaver SWDB C506-01-00-E003; Salt Water Ditch SWDB & Channel Improvements C108-00-00	14516	59.00		4	55.45000076	4	2.470000029	1328	2283	970
06-52-0000000040	Halls Bayou Watershed Mitigation Application 1 - CDBG MIT	43667	96.00		7	138.5099945	7	0.039999999	3259	3023	1336
06-52-0000000046	White Oak Bayou CDBG MIT Application Projects: Kolbe Road Drainage Improvements, Barwood, E132-00-00, Tower Oaks, & Little White Oak	10513	41.00		4	47.31000137	4	0.01	549	670	381
06-52-0000000056	Mary's Creek Lower, Middle, and Upper Segment	6644	9.00		1	54.00999832	1	8.5	310	2324	2126

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Reduction in Flood Risk									
FMP ID	FMP Name	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-52-0000000026	Lower Clear Creek & Dickinson Bayou Flood Mitigation Plan - Lower Clear Creek Alternative 3	835	3653	8.00		1	26	1	16.11000061	0	0
06-52-0000000027	Brays Bayou Watershed Mitigation Project CDBG MIT Application - Bintliff Ditch Improvements D133-00-00 & Sharptown	118	2890	4.00		0	5	0	0.01	0	0
06-52-0000000037	Sims Bayou CDBG MIT Application - South Post Oak SWDB C147/C547; South Shaver SWDB C506-01-00-E003; Salt Water Ditch SWDB & Channel Improvements C108-00-00	2127	9352	32.00		2	17	2	2.470000029	0	0
06-52-0000000040	Halls Bayou Watershed Mitigation Application 1 - CDBG MIT	2652	9386	6.00		0	17	0	0.039999999	0	0
06-52-0000000046	White Oak Bayou CDBG MIT Application Projects: Kolbe Road Drainage Improvements, Barwood, E132-00-00, Tower Oaks, & Little White Oak	605	3899	3.00		0	7	0	0.01	0	0
06-52-0000000056	Mary's Creek Lower, Middle, and Upper Segment	1862	7614	6.00		1	34	0	8.5	0	0

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Pre-Project Level-of-Service	Post-Project Level-of-Service	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
06-52-0000000026	Lower Clear Creek & Dickinson Bayou Flood Mitigation Plan - Lower Clear Creek Alternative 3	Unknown	Unknown	0	N	N	0.409957	N	0.06
06-52-0000000027	Brays Bayou Watershed Mitigation Project CDBG MIT Application - Bintliff Ditch Improvements D133-00-00 & Sharptown	Unknown	Unknown	0	N	N	0.586815	N	0.13
06-52-0000000037	Sims Bayou CDBG MIT Application - South Post Oak SWDB C147/C547; South Shaver SWDB C506-01-00-E003; Salt Water Ditch SWDB & Channel Improvements C108-00-00	Unknown	Unknown	0	N	N	0.764685	N	1.8
06-52-0000000040	Halls Bayou Watershed Mitigation Application 1 - CDBG MIT	Unknown	0.01	0	N	N	0.695287	N	1.46
06-52-0000000046	White Oak Bayou CDBG MIT Application Projects: Kolbe Road Drainage Improvements, Barwood, E132-00-00, Tower Oaks, & Little White Oak	Unknown	0.01	0	N	N	0.602174	N	0.8
06-52-0000000056	Mary's Creek Lower, Middle, and Upper Segment	Unknown	Unknown	0	N	N	0.3946	N	0.16

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type
06-52-0000000058	Caney Creek - Channelization at IH-69 & Detention at FM1097 + SH105	Reduce flooding in the Caney Creek Watershed by implementing channel improvements to increase capacity and regional detention to reduce discharges. Channel improvements must be constructed with one, or both, of the recommended detention facilities.	06-20-0000000001, 06-20-0000000005 06-20-0000000006, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris, Liberty, Montgomery, San Jacinto, Walker		Comprehensive
06-52-0000000059	East Fork San Jacinto River - Winters Bayou Detention	Design, land acquisition, and construction of a dry dam on Winters Bayou to reduce flooding in the East Fork watershed, capturing runoff and mitigating flood risk.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris, Liberty, Montgomery, San Jacinto, Walker		Detention Pond
06-52-0000000060	Lake Creek - Detention on Garretts Creek, Little Caney Creek, & Caney Creek	The goal of the detention ponds is to reduce flooding in the Lake Creek and West Fork watersheds by constructing earthen impoundments that captures runoff from Garrett's Creek, Caney Creek, & Little Caney Creek.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000015	Montgomery, Grimes	06-02-0401010101, 06-02-0401010301 06-02-0401010302, 06-02-0401010303 06-02-0401010103, 06-02-0401010203 06-02-0401010304, 06-02-0401010205	Detention Pond
06-52-0000000061	Peach Creek - Channelization at IH-69 & Detention at SH105 + Walker Creek	Reduce flooding in the Peach Creek Watershed by implementing channel improvements to increase capacity and regional detention to provide storage. Channel improvements must be constructed with one, or both, of the recommended detention facilities.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000005 06-20-0000000006, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Liberty, Montgomery, San Jacinto, Walker	06-02-0401030110, 06-02-0401030102 06-02-0401030108, 06-02-0401030101 06-02-0401030103, 06-02-0401030105 06-02-0401030106, 06-02-0401030107 06-02-0401030109, 06-02-0401030402 06-02-0401030303, 06-02-0401030304 06-02-0401030401	Comprehensive
06-52-0000000062	Spring Creek - Woodland (200-ft) and I-45 Channelization with detention at Birch Creek and Walnut Creek	8.9-mile, 200-feet-wide benched improvement 4-feet above the flowline of Woodlands channel and 6.9-mile, 300-foot-wide benched improvement 4 feet above I-45 channel. Must be completed with detention on Birch Creek and Walnut Creek.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000005 06-20-0000000006, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris, Waller, Montgomery, Grimes	06-02-0401030110, 06-02-0401030102 06-02-0401030108, 06-02-0401030101 06-02-0401030103, 06-02-0401030105 06-02-0401030106, 06-02-0401030107 06-02-0401030109, 06-02-0401030402 06-02-0401030303, 06-02-0401030304 06-02-0401030401	Comprehensive

Table 13 Identified Potentially Feasible Flood Mitigation Projects

								Flood Risk			
FMP ID	FMP Name	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk
06-52-0000000058	Caney Creek - Channelization at IH-69 & Detention at FM1097 + SH105	214.90	Riverine	Montgomery County	Montgomery County, San Jacinto River Authority River Authority, Harris County Flood Control District Flood Control District	Yes	469000000	22.85021019	4.326200962	2146	1694
06-52-0000000059	East Fork San Jacinto River - Winters Bayou Detention	408.79	Riverine	San Jacinto County	San Jacinto County, San Jacinto River Authority River Authority, Harris County Flood Control District Flood Control District	No	167000000	47.75464249	6.293377876	1896	1442
06-52-0000000060	Lake Creek - Detention on Garretts Creek, Little Caney Creek, & Caney Creek	329.58	Riverine	Montgomery County	Montgomery County, Grimes County, San Jacinto River Authority River Authority, City of Houston, Harris County Flood Control District Flood Control District	Yes	291000000	32.67636108	3.189466953	479	368
06-52-0000000061	Peach Creek - Channelization at IH-69 & Detention at SH105 + Walker Creek	157.95	Riverine	Montgomery County	Montgomery County, San Jacinto County, San Jacinto River Authority River Authority	Yes	810000000	14.81095123	2.414032936	1516	1172
06-52-0000000062	Spring Creek - Woodland (200-ft) and I-45 Channelization with detention at Birch Creek and Walnut Creek	412.52	Riverine	Montgomery County	Harris County, Montgomery County, San Jacinto River Authority River Authority, Harris County Flood Control District Flood Control District	Yes	393000000	39.4414711	9.603535652	7487	6355

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Flood Risk							Reduction in Flood Risk		
FMP ID	FMP Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk
06-52-0000000058	Caney Creek - Channelization at IH-69 & Detention at FM1097 + SH105	3232	0.00		3	46.33000183	3	27.31999969	336	1297	238
06-52-0000000059	East Fork San Jacinto River - Winters Bayou Detention	2559	3.00		1	73.48999786	1	5.869999886	297	651	1005
06-52-0000000060	Lake Creek - Detention on Garretts Creek, Little Caney Creek, & Caney Creek	449	0.00		5	18.21999931	5	0	41	355	397
06-52-0000000061	Peach Creek - Channelization at IH-69 & Detention at SH105 + Walker Creek	2166	1.00		6	45.11999893	6	2.859999895	98	1146	533
06-52-0000000062	Spring Creek - Woodland (200-ft) and I-45 Channelization with detention at Birch Creek and Walnut Creek	17764	15.00		7	120.9800034	7	12.82999992	680	5479	5639

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Reduction in Flood Risk									
FMP ID	FMP Name	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-52-0000000058	Caney Creek - Channelization at IH-69 & Detention at FM1097 + SH105	998	2228	0.00		0	42	0	27.31999969	0	0
06-52-0000000059	East Fork San Jacinto River - Winters Bayou Detention	506	1412	1.00		0	17	0	5.869999886	0	0
06-52-0000000060	Lake Creek - Detention on Garretts Creek, Little Caney Creek, & Caney Creek	265	383	0.00		1	5	1	0	0	0
06-52-0000000061	Peach Creek - Channelization at IH-69 & Detention at SH105 + Walker Creek	842	1855	1.00		0	24	0	2.859999895	0	0
06-52-0000000062	Spring Creek - Woodland (200-ft) and I-45 Channelization with detention at Birch Creek and Walnut Creek	4732	18240	8.00		0	69	0	12.82999992	0	0

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Pre-Project Level-of-Service	Post-Project Level-of-Service	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
06-52-0000000058	Caney Creek - Channelization at IH-69 & Detention at FM1097 + SH105	Varies by Roadways	Varies by Roadways	0	N	N	0.290182	N	0.3
06-52-0000000059	East Fork San Jacinto River - Winters Bayou Detention	Varies by Roadways	Varies by Roadways	0	N	N	0.4386	N	0.38
06-52-0000000060	Lake Creek - Detention on Garretts Creek, Little Caney Creek, & Caney Creek	Varies by Roadways	Varies by Roadways	0	N	N	0.406171	N	0.26
06-52-0000000061	Peach Creek - Channelization at IH-69 & Detention at SH105 + Walker Creek	Varies by Roadways	Varies by Roadways	0	N	N	0.2787	N	0.26
06-52-0000000062	Spring Creek - Woodland (200-ft) and I-45 Channelization with detention at Birch Creek and Walnut Creek	Varies by Roadways	Varies by Roadways	0	N	N	0.381907	N	0.73

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type
06-52-0000000064	West Fork San Jacinto River - Kingwood Benching & HW 242 Channelization	Reduce flooding in the West Fork San Jacinto River Watershed by implementing channel improvements to increase capacity. Channel improvements must be constructed with one, or multiple, of the Lake Creek and Spring Creek detention facilities listed as indiv	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris, Montgomery	06-02-0401010502, 06-02-0401010501 06-02-0401010404, 06-02-0401020213 06-02-0401030110, 06-02-0401030402 06-02-0401040705, 06-02-0401040702 06-02-0401040602, 06-02-0401040704 06-02-0402030104, 06-02-0402030102	Channel
06-52-0000000065	G103-05-00 St. Charles Place Project S-3	8-ft by 4-ft RCB storm sewer is proposed east of the SJRA canal starting at the intersection of Saint Cecilia and Zinn Drive, extending southward for roughly 1400 feet, and ending at the location of the existing Siphon 21 at tributary G103-05-00	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040704	Infrastructure
06-52-0000000066	G103-05-02.1 Arcadian Gardens Project, alt S-4	The Holly Road storm sewer is an 8-ft by 2-ft RCB, starting at Cypress Drive and extending 920 feet south to Tributary G103-05-02.1. The channel modification is a 5-ft deep channel extending 500 feet west, with an 8-ft bottom width and 4H:1V side slope	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000015	Harris	06-02-0401040704	Comprehensive
06-52-0000000067	G103-09 and G103-05 Flood Risk Reduction Project for Barrett Station Area, S-1	Storm sewer is 12ft x 3ft RCB at Jean Lafitte Dr extending W to Sandman Ave then along Milo Dr out falling to FM 1942 proposed system. FM 1942 is 15ft x 6ft RCB at Jean Lafitte Dr extending E to Crosby Lynchburg Rd and out falling to G103-09-01	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000015	Harris	06-02-0401040704	Infrastructure
06-52-0000000068	G103-07-00 Sheldon Area Project, PA4	The project would involve channel conveyance improvements along tributaries G103-07-00 and G103-07-02. Both channel segments are proposed to be widened, deepened, and concrete lined	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040702, 06-02-0401040704	Channel
06-52-0000000069	G103-24-00 Atascocita Area Project, PA1	PA1 involves culvert and channel conveyance improvements along tributary G103-24-00 in the Atascocita area.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401010502, 06-02-0401010501 06-02-0401040602	Comprehensive
06-52-0000000070	Q130-00-00 Channel Improvement PER and Design, alternative 3	Alternative 3 proposes 3,300 linear feet of a natural stable channel design improvements and two detention basins.	06-20-0000000001, 06-20-0000000015	Harris, Liberty	06-02-0402030103, 06-02-0402030102	Comprehensive
06-52-0000000071	Preliminary Engineering Study for Q122-00-00	Excavation of two (2) stormwater detention basins on and offline of channel Q122-00-00.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000015	Chambers, Harris	06-02-0402030104, 06-02-0401040705 06-02-0401040704	Detention Pond

Table 13 Identified Potentially Feasible Flood Mitigation Projects

								Flood Risk			
FMP ID	FMP Name	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk
06-52-0000000064	West Fork San Jacinto River - Kingwood Benching & HW 242 Channelization	179.92	Riverine	Harris County Flood Control District	Harris County, Montgomery County, San Jacinto River Authority River Authority, Harris County Flood Control District Flood Control District, City of Houston	No	994000000	63.36000061	11.89999962	5610	4895
06-52-0000000065	G103-05-00 St. Charles Place Project S-3	55.32	Urban or Local	Harris County Flood Control District	Harris County	Yes	2019000	6.29073	6.979332924	968	808
06-52-0000000066	G103-05-02.1 Arcadian Gardens Project, alt S-4	55.32	Riverine	Harris County Flood Control District	Harris County	No	1245000	6.29073	6.979332924	968	808
06-52-0000000067	G103-09 and G103-05 Flood Risk Reduction Project for Barrett Station Area, S-1	55.32	Urban or Local	Harris County Flood Control District	Harris County	No	8798000	6.29073	6.979332924	968	808
06-52-0000000068	G103-07-00 Sheldon Area Project, PA4	4.91	Riverine	Harris County Flood Control District	Harris County	Yes	29081000	2.262598991	2.971570969	813	379
06-52-0000000069	G103-24-00 Atascocita Area Project, PA1	4.40	Riverine	Harris County Flood Control District	Harris County	Yes	16137000	0.349388987	0.810122013	215	209
06-52-0000000070	Q130-00-00 Channel Improvement PER and Design, alternative 3	3.44	Riverine	Harris County Flood Control District	Harris County	No	14497000	0.975059986	1.288030982	141	109
06-52-0000000071	Preliminary Engineering Study for Q122-00-00	8.54	Riverine	Harris County Flood Control District	Chambers County	No	16153000	7.591669083	2.608031034	639	451

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Flood Risk							Reduction in Flood Risk		
FMP ID	FMP Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk
06-52-0000000064	West Fork San Jacinto River - Kingwood Benching & HW 242 Channelization	15431	59.00		0	136.4228821	0	382.7946167	1280	2365	5410
06-52-0000000065	G103-05-00 St. Charles Place Project S-3	1696	4.00		0	18.38468933	0	80.04654694	115	16	31
06-52-0000000066	G103-05-02.1 Arcadian Gardens Project, alt S-4	1696	4.00		0	18.38468933	0	80.04654694	8	125	31
06-52-0000000067	G103-09 and G103-05 Flood Risk Reduction Project for Barrett Station Area, S-1	1696	4.00		0	18.38468933	0	80.04654694	209	195	144
06-52-0000000068	G103-07-00 Sheldon Area Project, PA4	2411	4.00		0	5.939843178	0	4.681698799	215	78	113
06-52-0000000069	G103-24-00 Atascocita Area Project, PA1	640	4.00		0	8.610592842	0	0.906994998	14	170	232
06-52-0000000070	Q130-00-00 Channel Improvement PER and Design, alternative 3	131	0.00		0	1.101963997	0	86.88491821	37	62	80
06-52-0000000071	Preliminary Engineering Study for Q122-00-00	1041	0.00		0	4.67852211	0	419.2834167	0	189	41

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Reduction in Flood Risk									
FMP ID	FMP Name	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-52-0000000064	West Fork San Jacinto River - Kingwood Benching & HW 242 Channelization	2094	10267	14.00		0	46	0	30.53552437	0	0
06-52-0000000065	G103-05-00 St. Charles Place Project S-3	10	33	1.00		0	0	0	0	0	0
06-52-0000000066	G103-05-02.1 Arcadian Gardens Project, alt S-4	117	269	0.00		0	1	0	0.020230999	0	0
06-52-0000000067	G103-09 and G103-05 Flood Risk Reduction Project for Barrett Station Area, S-1	171	351	0.00		0	3	0	0.819680989	0	0
06-52-0000000068	G103-07-00 Sheldon Area Project, PA4	63	1054	1.00		0	0	0	0.07	0	0
06-52-0000000069	G103-24-00 Atascocita Area Project, PA1	165	569	3.00		0	6	0	0.109999999	0	0
06-52-0000000070	Q130-00-00 Channel Improvement PER and Design, alternative 3	49	44	0.00		0	0	0	10.52000046	0	0
06-52-0000000071	Preliminary Engineering Study for Q122-00-00	114	266	0.00		0	1	0	167.2400055	0	0

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Pre-Project Level-of-Service	Post-Project Level-of-Service	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
06-52-0000000064	West Fork San Jacinto River - Kingwood Benching & HW 242 Channelization	Varies by Roadways	Varies by Roadways	0	N	N	0.395101	N	0.1
06-52-0000000065	G103-05-00 St. Charles Place Project S-3	Unknown	Unknown	0	N	N	0.523187	N	0.68
06-52-0000000066	G103-05-02.1 Arcadian Gardens Project, alt S-4	Unknown	Unknown	0	N	N	0.523187	N	1.32
06-52-0000000067	G103-09 and G103-05 Flood Risk Reduction Project for Barrett Station Area, S-1	Unknown	Unknown	0	N	N	0.523187	N	0.59
06-52-0000000068	G103-07-00 Sheldon Area Project, PA4	Unknown	Unknown	0	N	N	0.3004	N	0.09
06-52-0000000069	G103-24-00 Atascocita Area Project, PA1	Unknown	Unknown	0	N	N	0.381875	N	0.56
06-52-0000000070	Q130-00-00 Channel Improvement PER and Design, alternative 3	Unknown	Unknown	0	N	N	0.674233	N	0.022
06-52-0000000071	Preliminary Engineering Study for Q122-00-00	Unknown	Unknown	0	N	N	0.6305	N	0.033

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type
06-52-0000000072	TLV Drainage Improvement Project	Replaces undersized drainage systems along Honey Oaks, Manorfield, Laurel Grove, and Forest Lake Drives, out falling to Armand Bayou. Honey Oaks upsized to 60” RCP; Manorfield and Forest Lake to 36”-60” RCP; Laurel Grove and Forest Lake to 48”-60” RCP.	06-20-0000000001, 06-20-0000000015	Harris	06-02-0402040100	Infrastructure
06-52-0000000073	Bear/Panther Branch Drainage Improvements project	The proposed drainage improvements aim to reduce flood extents and increase mobility during large rain events by widening channels on Bear Branch and Panther Branch, clearing overbank areas, and adding inline detention basins for floodplain storage	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Montgomery	06-02-0401020209, 06-02-0401020211 06-02-0401020212	Comprehensive
06-52-0000000074	Cypress Ditch Conveyance Improvement Project	The conveyance capacity of Cypress Ditch will be increased with a 117-acre-foot (South Pond) and a 50-acre-foot (North Pond) detention facility, connected by four 48-inch reinforced concrete equalizer pipes at each pond connection	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000015	Harris	06-02-0401040401, 06-02-0401040402	Channel
06-52-0000000076	P125-00-00 Flood Risk Reduction Project Bundle, project 1	ROW Acquisition, Design, and Construction of Two Flood Risk Reduction Projects on P125-00-00, P125-04-00 and P125-03-00 (2018 Bond Project Z-03)	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040604, 06-02-0401040605	Comprehensive
06-52-0000000077	P126-00-00 Flood Risk Reduction Project, project 3	Phase 1 provides detention mitigation for channel-wide improvements in Phase 2. Phase 2 addresses out-of-bank flooding and overflow by increasing P126-00-00 channel-wide system capacity and conveyance.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040604, 06-02-0401040605	Channel
06-52-0000000078	G103-09-01 Barrett Settlement and St. Charles Place Project S-2	12x4ft RCB from FM 1942 extends to 5ft deep, 10ft bottom channel then to 12x6ft RCB. 12x5ft RCB from Saint Cecilia & Zinn D extends N to new siphon. 15x6ft RCB along Barrett Rd extends W to 12ft deep, 16ft bottom channel to new storm sewer to G103-09-01	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000015	Harris	06-02-0401040704	Infrastructure
06-52-0000000079	E116-00-00 Flood Risk Reduction Project Phase 2	E116-05-03 channel lining, larger culverts, micro-detention in medians, storm sewers connecting median sections. E116-05-00 siltation removal, upsize box culverts, storm drainage expansion. E116-00-00 widening, upsize culvert, south detention enlargement	06-20-0000000001, 06-20-0000000015	Harris	06-02-0401040304, 06-02-0401040302	Comprehensive
06-52-0000000080	Q534-01-00 Detention Basin Design and Construction, Phase 1 improvements	Phase 1 improvements involve constructing inflow structures, outfall structure, and the wet-bottom portion of the ultimate basin configuration.	06-20-0000000001, 06-20-0000000015	Harris	06-02-0402030102	Infrastructure
06-52-0000000081	Saltwater Ditch Subwatershed Flood Risk Reduction Project	Harris County Public Infrastructure Department (HCPID) is proposing to improve the Salt Water Ditch (HCFCD Unit # C118-00-00) from just east of Calhoun Road downstream to the channel outlet at Sims Bayou (HCFCD Unit # C100-00-00)	06-20-0000000001, 06-20-0000000015	Harris	06-02-0401040502	Channel
06-52-0000000082	Channel Conveyance and Stormwater Detention Improvements for Q136-00-00, alternative 1	1,130 feet of channel improvements between XS 217125 and 216288, and an 82 ac-ft detention basin on a vacant lot for sale east of the channel	06-20-0000000001, 06-20-0000000015	Harris	06-02-0401030205, 06-02-0402030102	Comprehensive

Table 13 Identified Potentially Feasible Flood Mitigation Projects

								Flood Risk			
FMP ID	FMP Name	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk
06-52-0000000072	TLV Drainage Improvement Project	0.53	Urban or Local	City of Taylor Lake Village	Harris County	No	6130000	0.212941006	0	476	461
06-52-0000000073	Bear/Panther Branch Drainage Improvements project	6.16	Riverine	San Jacinto River Authority	Montgomery County	Yes	23567000	1.631217957	0	450	411
06-52-0000000074	Cypress Ditch Conveyance Improvement Project	1.59	Riverine	City of Bellaire	Harris County	No	75916000	0.538024008	0	957	888
06-52-0000000076	P125-00-00 Flood Risk Reduction Project Bundle, project 1	3.83	Riverine	Harris County Flood Control District	Harris County	Yes	46273000	2.276021957	2.8702631	1609	1554
06-52-0000000077	P126-00-00 Flood Risk Reduction Project, project 3	3.83	Riverine	Harris County Flood Control District	Harris County	Yes	78753000	2.276021957	2.8702631	1610	1554
06-52-0000000078	G103-09-01 Barrett Settlement and St. Charles Place Project S-2	55.32	Riverine	Harris County Flood Control District	Harris County	No	21056000	6.29073	6.979332924	968	808
06-52-0000000079	E116-00-00 Flood Risk Reduction Project Phase 2	0.70	Riverine	Harris County Flood Control District	Harris County	No	22852000	0.508745015	0	484	423
06-52-0000000080	Q534-01-00 Detention Basin Design and Construction, Phase 1 improvements	37.05	Riverine	Harris County Flood Control District	Harris County	No	14984000	3.674001932	4.304727077	178	133
06-52-0000000081	Saltwater Ditch Subwatershed Flood Risk Reduction Project	2.27	Riverine	Harris County Flood Control District	Harris County	No	101097000	2.2707479	0	4204	4007
06-52-0000000082	Channel Conveyance and Stormwater Detention Improvements for Q136-00-00, alternative 1	3.07	Riverine	Harris County Flood Control District	Harris County	No	7704000	4.181888103	0.366293013	121	70

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Flood Risk							Reduction in Flood Risk		
FMP ID	FMP Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk
06-52-0000000072	TLV Drainage Improvement Project	915	11.00		0	7.933743954	0	0	28	14	0
06-52-0000000073	Bear/Panther Branch Drainage Improvements project	9728	28.00		0	10.7467804	0	1.388703942	124	275	0
06-52-0000000074	Cypress Ditch Conveyance Improvement Project	3468	11.00		0	16.51486015	0	0	44	30	0
06-52-0000000076	P125-00-00 Flood Risk Reduction Project Bundle, project 1	4967	12.00		0	15.35719872	0	4.967239857	552	449	55
06-52-0000000077	P126-00-00 Flood Risk Reduction Project, project 3	4968	12.00		0	15.35720158	0	4.96724081	884	348	87
06-52-0000000078	G103-09-01 Barrett Settlement and St. Charles Place Project S-2	1696	4.00		0	18.38469315	0	80.04654694	171	308	124
06-52-0000000079	E116-00-00 Flood Risk Reduction Project Phase 2	1293	0.00		0	5.644906998	0	0	141	3	0
06-52-0000000080	Q534-01-00 Detention Basin Design and Construction, Phase 1 improvements	147	1.00		0	0.383053988	0	531.3908691	56	5	8
06-52-0000000081	Saltwater Ditch Subwatershed Flood Risk Reduction Project	13404	64.00		0	39.50347519	0	0.702464998	15	0	0
06-52-0000000082	Channel Conveyance and Stormwater Detention Improvements for Q136-00-00, alternative 1	158	2.00		0	2.812602043	0	59.81146622	35	1	0

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Reduction in Flood Risk									
FMP ID	FMP Name	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-52-0000000072	TLV Drainage Improvement Project	14	17	0.00		0	0	0	0	0	0
06-52-0000000073	Bear/Panther Branch Drainage Improvements project	258	2685	16.00		0	4	0	0.519999981	0	0
06-52-0000000074	Cypress Ditch Conveyance Improvement Project	23	628	0.00		0	4	0	0	0	0
06-52-0000000076	P125-00-00 Flood Risk Reduction Project Bundle, project 1	432	1460	3.00		0	3	0	0.270000011	0	0
06-52-0000000077	P126-00-00 Flood Risk Reduction Project, project 3	336	1059	2.00		0	1	0	0.790000021	0	0
06-52-0000000078	G103-09-01 Barrett Settlement and St. Charles Place Project S-2	272	547	1.00		0	2	0	0.783544004	0	0
06-52-0000000079	E116-00-00 Flood Risk Reduction Project Phase 2	2	27	0.00		0	0	0	0	0	0
06-52-0000000080	Q534-01-00 Detention Basin Design and Construction, Phase 1 improvements	2	10	0.00		0	0	0	7.056621075	0	0
06-52-0000000081	Saltwater Ditch Subwatershed Flood Risk Reduction Project	0	0	0.00		0	0	0	0	0	0
06-52-0000000082	Channel Conveyance and Stormwater Detention Improvements for Q136-00-00, alternative 1	1	2	0.00		0	0	0	0.209999993	0	0

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Pre-Project Level-of-Service	Post-Project Level-of-Service	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
06-52-0000000072	TLV Drainage Improvement Project	Unknown	Unknown	0	N	N	0.5932	N	2.08
06-52-0000000073	Bear/Panther Branch Drainage Improvements project	Unknown	Unknown	0	N	N	0.35004	N	1.9
06-52-0000000074	Cypress Ditch Conveyance Improvement Project	Unknown	Unknown	0	N	N	0.08944	N	2.3
06-52-0000000076	P125-00-00 Flood Risk Reduction Project Bundle, project 1	10-year	Unknown	0	N	N	0.938867	N	0.65
06-52-0000000077	P126-00-00 Flood Risk Reduction Project, project 3	10-year	Unknown	0	N	N	0.938867	N	0.76
06-52-0000000078	G103-09-01 Barrett Settlement and St. Charles Place Project S-2	Unknown	Unknown	0	N	N	0.523187	N	0.41
06-52-0000000079	E116-00-00 Flood Risk Reduction Project Phase 2	Varies	50 & 100-year	0	N	N	0.95575	N	0.5
06-52-0000000080	Q534-01-00 Detention Basin Design and Construction, Phase 1 improvements	Unknown	25-Year	0	N	N	0.48014	N	0.14
06-52-0000000081	Saltwater Ditch Subwatershed Flood Risk Reduction Project	<2-year	10-Year (100-year in some areas)	0	N	N	0.895833	N	0.55
06-52-0000000082	Channel Conveyance and Stormwater Detention Improvements for Q136-00-00, alternative 1	Unknown	Unknown	0	N	N	0.4056	N	0.09

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type
06-52-0000000083	City of Houston Southland Drainage Improvements	The project would involves upsizing storm sewer where necessary to reduce overland ponding within the project area and proposed pond.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040402	Comprehensive
06-52-0000000084	Vince Bayou Channel Conveyance Improvements PER (I100-00-00-E001), Alternative 1	The project would involve five proposed detention basins (WP-01, WP-02, WP-03, WP-04 and WP-05) and two sections of channel improvements adjacent to WP-01 and WP-05.	06-20-0000000001, 06-20-0000000015	Harris	06-02-0402040100, 06-02-0401040502 06-02-0401040703	Comprehensive
06-52-0000000085	C106 - FMS, FMN, GT Alt 7	Places 4-12x12 RCBs in C106-10-00 and C106-10-01 channels from Theta St to C106-00-00, and a bypass along Hartsook Rd with 2-8x4 RCBs. Provides additional storage and optimizes channel WSEs for maximum benefit to neighborhoods	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040502	Infrastructure
06-52-0000000086	City of Houston Westbury CIP Project	Westbury CIP Project includes replacing/upsizing storm sewers & inlets for 2-year storm flows. A parcel on Beaudry Dr. will be used for a new outfall to Willow Waterhole Bayou, reducing flow to Hillcroft St. HCFCD Unit D140-05-02 to have 2yr capacity	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040401	Comprehensive
06-52-0000000087	City of Houston Kirkwood/Nottingham Drainage Improvements	4,000 LF of 8'x10' Box Culvert (7.35 ac-ft), 24,700 LF of 78" RCP (18.80 ac-ft), and a 3.81 ac (total property required) Detention Pond (22.45 ac-ft)	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000015	Harris	06-02-0401040303	Infrastructure
06-52-0000000088	City of Houston Spring Shadow South Drainage Improvements	Upgrade drainage system and adding inline-detention Storage.	06-20-0000000001, 06-20-0000000015	Harris	06-02-0401040303, 06-02-0401040302	Infrastructure
06-52-0000000089	Q128-00-00 Channel Conveyance Improvements	Bench Excavation Channel design from Adlong School Rd bridge to 1.4 miles downstream of Q128-00-00 for a 5-yr system capacity. Downstream improvements transition to existing channel, containing the 5-yr WSEL within the channel without overbank spilling	06-20-0000000001, 06-20-0000000015	Harris, Liberty	06-02-0402030103, 06-02-0402030104 06-02-0402030102, 06-02-0401040704	Channel
06-52-0000000090	City of Houston Richmond Plaza Drainage Improvements	Reduces 10-year ponding within Houston's ROW & includes detention. The lowered field area remains a multi-use park/detention. It includes storm sewer improvements, including an 8x8-ft line along Chimney Rock Rd with a restrictor	06-20-0000000001, 06-20-0000000015	Harris	06-02-0401040401	Infrastructure
06-52-0000000091	City of Houston Huntington Village Drainage Improvements	Project provides for design and construction of storm drainage improvements, necessary concrete paving for street replacement, curbs, sidewalks, driveways, and street lights to serve the Huntington Village subdivisions	06-20-0000000001, 06-20-0000000015	Fort Bend, Harris	06-02-0401040401	Infrastructure
06-52-0000000092	Scott Street - OST to Brays Projects 1,2,and 3	5 RR Crossing Improvements, Kuhlman Gully US expansion, Kuhlman Gully DS pond, Griggs Pond. Improvements to OST/Griggs, Cullen, Scott St, Calhoun Pond, Mainer St, drainage easement, St Augustine, Dixie Dr, Rebecca St Pond & Beech White Park Pond	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040402	Infrastructure

Table 13 Identified Potentially Feasible Flood Mitigation Projects

								Flood Risk			
FMP ID	FMP Name	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk
06-52-0000000083	City of Houston Southland Drainage Improvements	0.99	Urban or Local	City of Houston	Harris County	Yes	28950000	0.104300998	0	98	77
06-52-0000000084	Vince Bayou Channel Conveyance Improvements PER (I100-00-00-E001), Alternative 1	16.18	Riverine	Harris County Flood Control District	Harris County	No	27776000	12.78759289	14.02422333	21895	18254
06-52-0000000085	C106 - FMS, FMN, GT Alt 7	0.44	Riverine	City of Houston	Harris County	Yes	55175000	0.521238983	0	844	835
06-52-0000000086	City of Houston Westbury CIP Project	0.87	Urban or Local	City of Houston	Harris County	Yes	125225000	0.516363025	0	999	985
06-52-0000000087	City of Houston Kirkwood/Nottingham Drainage Improvements	0.37	Riverine	City of Houston	Harris County	No	40226000	0.255852997	0	747	740
06-52-0000000088	City of Houston Spring Shadow South Drainage Improvements	0.79	Urban or Local	City of Houston	Harris County	No	20676000	0.35383299	0	883	861
06-52-0000000089	Q128-00-00 Channel Conveyance Improvements	11.46	Riverine	Harris County Flood Control District	Harris County	No	21671000	11.19620895	5.683229923	476	274
06-52-0000000090	City of Houston Richmond Plaza Drainage Improvements	0.17	Urban or Local	City of Houston	Harris County	No	58660000	0.121489003	0	273	226
06-52-0000000091	City of Houston Huntington Village Drainage Improvements	0.68	Urban or Local	City of Houston	Fort Bend County	No	30247000	0.090190001	0	256	254
06-52-0000000092	Scott Street - OST to Brays Projects 1,2,and 3	1.05	Urban or Local	City of Houston	Harris County	Yes	128714000	0.612882018	0	1569	1438

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Flood Risk							Reduction in Flood Risk		
FMP ID	FMP Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk
06-52-0000000083	City of Houston Southland Drainage Improvements	261	3.00		0	7.946184158	0	0	17	47	0
06-52-0000000084	Vince Bayou Channel Conveyance Improvements PER (I100-00-00-E001), Alternative 1	91664	412.00		2	221.5635071	2	9.010604858	782	22	9
06-52-0000000085	C106 - FMS, FMN, GT Alt 7	2877	5.00		0	9.646700859	0	0	369	443	0
06-52-0000000086	City of Houston Westbury CIP Project	2685	8.00		0	15.64458179	0	1.355111003	273	222	0
06-52-0000000087	City of Houston Kirkwood/Nottingham Drainage Improvements	1838	0.00		0	7.650000095	0	0	181	342	0
06-52-0000000088	City of Houston Spring Shadow South Drainage Improvements	3052	1.00		0	12.22054958	0	0	170	42	0
06-52-0000000089	Q128-00-00 Channel Conveyance Improvements	615	1.00		0	7.892793179	0	965.8203735	158	13	13
06-52-0000000090	City of Houston Richmond Plaza Drainage Improvements	1847	1.00		0	3.30114603	0	0	53	10	0
06-52-0000000091	City of Houston Huntington Village Drainage Improvements	876	1.00		0	2.906475067	0	0.038750999	111	40	0
06-52-0000000092	Scott Street - OST to Brays Projects 1,2,and 3	4429	27.00		0	15.11114883	0	0.138330996	408	96	0

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Reduction in Flood Risk									
FMP ID	FMP Name	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-52-0000000083	City of Houston Southland Drainage Improvements	35	95	1.00		0	2	0	0	0	0
06-52-0000000084	Vince Bayou Channel Conveyance Improvements PER (I100-00-00-E001), Alternative 1	14	81	0.00		0	0	0	0	0	0
06-52-0000000085	C106 - FMS, FMN, GT Alt 7	440	1509	1.00		0	0	0	0	0	0
06-52-0000000086	City of Houston Westbury CIP Project	135	889	5.00		0	0	0	1.350000024	0	0
06-52-0000000087	City of Houston Kirkwood/Nottingham Drainage Improvements	341	818	0.00		0	1	0	0	0	0
06-52-0000000088	City of Houston Spring Shadow South Drainage Improvements	34	111	0.00		0	0	0	0	0	0
06-52-0000000089	Q128-00-00 Channel Conveyance Improvements	10	14	0.00		0	0	0	6.269999981	0	0
06-52-0000000090	City of Houston Richmond Plaza Drainage Improvements	6	30	0.00		0	0	0	0	0	0
06-52-0000000091	City of Houston Huntington Village Drainage Improvements	26	143	0.00		0	0	0	0	0	0
06-52-0000000092	Scott Street - OST to Brays Projects 1,2,and 3	83	236	2.00		0	0	0	0	0	0

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Pre-Project Level-of-Service	Post-Project Level-of-Service	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
06-52-0000000083	City of Houston Southland Drainage Improvements	Unknown	Unknown	0	N	N	0.889967	N	0
06-52-0000000084	Vince Bayou Channel Conveyance Improvements PER (I100-00-00-E001), Alternative 1	Unknown	Unknown	0	N	N	0.77066	N	0.09
06-52-0000000085	C106 - FMS, FMN, GT Alt 7	Unknown	Unknown	0	N	N	0.50775	N	0.1
06-52-0000000086	City of Houston Westbury CIP Project	Unknown	Unknown	0	N	N	0.70525	N	0.1
06-52-0000000087	City of Houston Kirkwood/Nottingham Drainage Improvements	< 10-year	100-year	0	N	N	0.4325	N	0.8
06-52-0000000088	City of Houston Spring Shadow South Drainage Improvements	<2-Year	2-Year	0	N	N	0.6261	N	0.1
06-52-0000000089	Q128-00-00 Channel Conveyance Improvements	10-year	Unknown	0	N	N	0.65224	N	1.02
06-52-0000000090	City of Houston Richmond Plaza Drainage Improvements	Unknown	Unknown	0	N	N	0.4835	N	0.5
06-52-0000000091	City of Houston Huntington Village Drainage Improvements	<2-year	2 & 100-year	0	N	N	0.79285	N	0
06-52-0000000092	Scott Street - OST to Brays Projects 1,2,and 3	Unknown	10-year	0	N	N	0.95856	N	1.5

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type
06-52-0000000093	Lake Creek - Garrett's Creek Detention	Design, land acquisition, and construction of a dry dam on Garrett's Creek to provide 16,850 acre-feet of storage during storm events and mitigate flood risk along Lake Creek.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000015	Montgomery, Grimes	06-02-0401010101, 06-02-0401010301 06-02-0401010302, 06-02-0401010303 06-02-0401010103, 06-02-0401010203 06-02-0401010304, 06-02-0401010205	Detention Pond
06-52-0000000094	Lake Creek - Little Caney Creek Detention	Design, land acquisition, and construction of a dry dam on Little Caney Creek to provide 17,500 acre-feet of storage during storm events and mitigate flood risk along Lake Creek.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000015	Montgomery, Grimes	06-02-0401010101, 06-02-0401010301 06-02-0401010302, 06-02-0401010303 06-02-0401010103, 06-02-0401010203 06-02-0401010304, 06-02-0401010205	Detention Pond
06-52-0000000095	Spring Creek I-45 Channelization	Design, land acquisition, and construction of channel conveyance improvements on Spring Creek from I-45 to approximately 4 miles downstream of Riley Fuzzel Road to increase conveyance capacity.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris, Waller, Montgomery, Grimes	06-02-0401030110, 06-02-0401030102 06-02-0401030108, 06-02-0401030101 06-02-0401030103, 06-02-0401030105 06-02-0401030106, 06-02-0401030107 06-02-0401030109, 06-02-0401030402 06-02-0401030303, 06-02-0401030304 06-02-0401030401	Channel
06-52-0000000096	Spring Creek Walnut Creek Detention	Design, land acquisition, and construction of dry dam detention facility on Walnut, to provide approximately 7,200 acre-ft of storage during storm events and reduce flood risk on Spring Creek.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris, Waller, Montgomery, Grimes	06-02-0401030110, 06-02-0401030102 06-02-0401030108, 06-02-0401030101 06-02-0401030103, 06-02-0401030105 06-02-0401030106, 06-02-0401030107 06-02-0401030109, 06-02-0401030402 06-02-0401030303, 06-02-0401030304 06-02-0401030401	Detention Pond

Table 13 Identified Potentially Feasible Flood Mitigation Projects

								Flood Risk			
FMP ID	FMP Name	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk
06-52-0000000093	Lake Creek - Garrett's Creek Detention	455.28	Riverine	San Jacinto River Authority	Montgomery County, Grimes County, San Jacinto River Authority River Authority, City of Houston, Harris County Flood Control District Flood Control District	No	129569000	78.5	12.5	4257	3412
06-52-0000000094	Lake Creek - Little Caney Creek Detention	455.28	Riverine	San Jacinto River Authority	Montgomery County, Grimes County, San Jacinto River Authority River Authority, City of Houston, Harris County Flood Control District Flood Control District	No	126602000	78.5	12.5	4257	3412
06-52-0000000095	Spring Creek I-45 Channelization	390.70	Riverine	San Jacinto River Authority	Montgomery County, City of Houston, San Jacinto River Authority River Authority, Harris County Flood Control District Flood Control District	Yes	84071000	40.00999832	9.81000042	7845	6686
06-52-0000000096	Spring Creek Walnut Creek Detention	412.52	Riverine	San Jacinto River Authority	Waller County, Montgomery County, City of Houston, San Jacinto River Authority River Authority, Harris County Flood Control District Flood Control District	Yes	141438000	52.5773201	10.83364964	9964	8483

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Flood Risk							Reduction in Flood Risk		
FMP ID	FMP Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk
06-52-0000000093	Lake Creek - Garrett's Creek Detention	12671	58.00		10	133.7520752	10	552.0186157	658	2237	4132
06-52-0000000094	Lake Creek - Little Caney Creek Detention	12671	58.00		10	133.7520752	10	552.0186157	0	2237	0
06-52-0000000095	Spring Creek I-45 Channelization	18975	23.00		14	128.5188599	14	135.0148621	586	3762	2724
06-52-0000000096	Spring Creek Walnut Creek Detention	24176	64.00		7	184.2714996	7	232.1141968	752	404	540

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Reduction in Flood Risk									
FMP ID	FMP Name	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-52-0000000093	Lake Creek - Garrett's Creek Detention	1772	10161	15.00		1	50	148	25.46378136	0	0
06-52-0000000094	Lake Creek - Little Caney Creek Detention	1772	10161	15.00		1	0	0	25.46378136	0	0
06-52-0000000095	Spring Creek I-45 Channelization	3212	12904	3.00		0	50	275	4.056688786	0	0
06-52-0000000096	Spring Creek Walnut Creek Detention	329	994	1.00		0	9	0	1.506217957	0	0

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Pre-Project Level-of-Service	Post-Project Level-of-Service	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
06-52-0000000093	Lake Creek - Garrett's Creek Detention	Varies by Roadways	Varies by Roadways	0	N	N	0.368909	N	0.31
06-52-0000000094	Lake Creek - Little Caney Creek Detention	Varies by Roadways	Varies by Roadways	0	N	N	0.368909	N	0.27
06-52-0000000095	Spring Creek I-45 Channelization	Varies by Roadways	Varies by Roadways	0	N	Y	0.358307	N	1.17
06-52-0000000096	Spring Creek Walnut Creek Detention	Varies by Roadways	Varies by Roadways	0	N	N	0.381907	N	1.21

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type
06-52-0000000097	Spring Creek Woodlands Channelization (200-ft)	Design, land acquisition, and construction of channel conveyance improvements on Spring Creek from Kuykendahl Road to Willow Creek confluence to increase conveyance capacity.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris, Waller, Montgomery, Grimes	06-02-0401030110, 06-02-0401030102 06-02-0401030108, 06-02-0401030101 06-02-0401030103, 06-02-0401030105 06-02-0401030106, 06-02-0401030107 06-02-0401030109, 06-02-0401030402 06-02-0401030303, 06-02-0401030304 06-02-0401030401	Channel
06-52-0000000098	Lake Creek - Caney Creek Detention	Design, land acquisition, and construction of a dry dam on Caney Creek to reduce flooding, provide 19,750 acre-feet of storage during storm events, and mitigate flood risk along Caney and Lake Creek.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000015	Montgomery, Grimes	06-02-0401010101, 06-02-0401010301 06-02-0401010302, 06-02-0401010303 06-02-0401010103, 06-02-0401010203 06-02-0401010304, 06-02-0401010205	Detention Pond
06-52-0000000099	Spring Creek Birch Creek Detention	Design, land acquisition, and construction of dry dam detention facility on Birch Creek, to provide approximately 4,800 acre-ft of storage during storm events and reduce flood risk on Spring Creek.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris, Waller, Montgomery, Grimes	06-02-0401030110, 06-02-0401030102 06-02-0401030108, 06-02-0401030101 06-02-0401030103, 06-02-0401030105 06-02-0401030106, 06-02-0401030107 06-02-0401030109, 06-02-0401030402 06-02-0401030303, 06-02-0401030304 06-02-0401030401	Detention Pond
06-52-0000000113	City of Friendswood Ordinances and Regulation Update	Adopt higher codes and update ordinances and regulation to promote hazard mitigation strategies.	06-20-0000000001, 06-20-0000000007 06-20-0000000010, 06-20-0000000015	Galveston, Harris	06-02-0402040200, 06-02-0402040100	Preparedness
06-52-0000000114	City of Bayou Vista Regulations and Permit Requirements Update	Update regulations and permit requirements to address enhances hazard mitigation strategies.	06-20-0000000001, 06-20-0000000007 06-20-0000000010, 06-20-0000000015	Galveston	06-02-0402040200	Preparedness
06-52-0000000115	City of League City Freeboard Ordinance	Update city ordinance to require 24" of freeboard in the floodplain.	06-20-0000000001, 06-20-0000000007 06-20-0000000010, 06-20-0000000015	Galveston, Harris	06-02-0402040200, 06-02-0402040100	Preparedness

Table 13 Identified Potentially Feasible Flood Mitigation Projects

								Flood Risk			
FMP ID	FMP Name	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk
06-52-0000000097	Spring Creek Woodlands Channelization (200-ft)	390.70	Riverine	San Jacinto River Authority	Montgomery County, City of Houston, San Jacinto River Authority River Authority, Harris County Flood Control District Flood Control District	Yes	55388000	40.00999832	9.81000042	7845	6686
06-52-0000000098	Lake Creek - Caney Creek Detention	455.28	Riverine	Montgomery County	Montgomery County, Grimes County, San Jacinto River Authority River Authority, City of Houston, Harris County Flood Control District Flood Control District	No	161219000	78.5	12.5	4257	3412
06-52-0000000099	Spring Creek Birch Creek Detention	412.52	Riverine	San Jacinto River Authority	Waller County, Montgomery County, City of Houston, San Jacinto River Authority River Authority, Harris County Flood Control District Flood Control District	Yes	85061000	52.5773201	10.83364964	9964	8483
06-52-0000000113	City of Friendswood Ordinances and Regulation Update	20.83	Urban or Local	City of Friendswood	City of Friendswood	No	109000	5.115361214	2.804289818	1680	1601
06-52-0000000114	City of Bayou Vista Regulations and Permit Requirements Update	0.45	Urban or Local	City of Bayou Vista	Galveston County, City of Bayou Vista	No	109000	0.447376192	0	1122	1095
06-52-0000000115	City of League City Freeboard Ordinance	52.89	Riverine	City of League City	Galveston County, City of League City	No	109000	16.73944092	10.14413548	5251	4835

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Flood Risk							Reduction in Flood Risk		
FMP ID	FMP Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk
06-52-0000000097	Spring Creek Woodlands Channelization (200-ft)	18975	23.00		14	128.5188599	14	135.0148621	279	980	948
06-52-0000000098	Lake Creek - Caney Creek Detention	12671	58.00		10	133.7520752	10	552.0186157	0	2237	0
06-52-0000000099	Spring Creek Birch Creek Detention	24176	64.00		7	184.2714996	7	232.1141968	776	331	442
06-52-0000000113	City of Friendswood Ordinances and Regulation Update	4640	2.00		5	37.72999954	5	0	0	0	0
06-52-0000000114	City of Bayou Vista Regulations and Permit Requirements Update	1476	3.00		0	7.710000038	0	0	0	0	0
06-52-0000000115	City of League City Freeboard Ordinance	13675	25.00		2	104.5699997	2	0	0	0	0

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Reduction in Flood Risk									
FMP ID	FMP Name	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-52-0000000097	Spring Creek Woodlands Channelization (200-ft)	386	3028	2.00		0	4	16	0.952977002	0	0
06-52-0000000098	Lake Creek - Caney Creek Detention	1772	10161	15.00		1	0	0	25.46378136	0	0
06-52-0000000099	Spring Creek Birch Creek Detention	264	820	1.00		0	7	0	0.643703997	0	0
06-52-0000000113	City of Friendswood Ordinances and Regulation Update	0	0	0.00		0	0	0	0	0	0
06-52-0000000114	City of Bayou Vista Regulations and Permit Requirements Update	0	0	0.00		0	0	0	0	0	0
06-52-0000000115	City of League City Freeboard Ordinance	0	0	0.00		0	0	0	0	0	0

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Pre-Project Level-of-Service	Post-Project Level-of-Service	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
06-52-0000000097	Spring Creek Woodlands Channelization (200-ft)	Varies by Roadways	Varies by Roadways	0	N	Y	0.358307	N	0.62
06-52-0000000098	Lake Creek - Caney Creek Detention	Varies by Roadways	Varies by Roadways	0	N	N	0.368909	N	0.26
06-52-0000000099	Spring Creek Birch Creek Detention	Varies by Roadways	Varies by Roadways	0	N	N	0.381907	N	2.03
06-52-0000000113	City of Friendswood Ordinances and Regulation Update	Unknown	0.01	0	N	N	0.434925	N	5
06-52-0000000114	City of Bayou Vista Regulations and Permit Requirements Update	Unknown	0.01	0	N	N	0.6314	N	5
06-52-0000000115	City of League City Freeboard Ordinance	Unknown	Unknown	0	N	N	0.305877	N	5

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type
06-52-0000000123	City of Cleveland Floodplain Land-Use Ordinance	The city shall adopt a land-use ordinance which prohibits building residential or commercial structures in the 100-year floodplain.	06-20-0000000001, 06-20-0000000007 06-20-0000000010, 06-20-0000000015	Liberty, Montgomery, San Jacinto	06-02-0401030201, 06-02-0401030108 06-02-0401030109, 06-02-0401030203 06-02-0401030202, 06-02-0401030401	Preparedness
06-52-0000000124	City of Cleveland Floodplain Ordinance Update	Adopt a land use ordinance which requires any structure within the 100-year floodplain to be elevated 2 feet.	06-20-0000000001, 06-20-0000000007 06-20-0000000010, 06-20-0000000015	Liberty, Montgomery, San Jacinto	06-02-0401030201, 06-02-0401030108 06-02-0401030109, 06-02-0401030203 06-02-0401030202, 06-02-0401030401	Preparedness
06-52-0000000126	City of Cleveland Ordinance Update Pipeline Right-of-Way	Adopt 25-foot setback from pipeline right-of-way.	06-20-0000000001, 06-20-0000000007 06-20-0000000010, 06-20-0000000015	Liberty, Montgomery, San Jacinto	06-02-0401030201, 06-02-0401030108 06-02-0401030109, 06-02-0401030203 06-02-0401030202, 06-02-0401030401	Preparedness
06-52-0000000127	Galveston Bay Surge Protection Coastal Storm Risk Management	Federal projects identified in the Texas Coastal Study (2021) including Boliver Gates, Galveston Sea Wall Improvements, Ecosystem Restoration, Galveston Ring Barrier system, Clear Creek & Dickinson Bayou Gates, and non-structural measures.	06-20-0000000011, 06-20-0000000012 06-20-0000000013, 06-20-0000000014	Brazoria, Galveston, Fort Bend, Chambers, Harris, Liberty	06-02-0401030201, 06-02-0401030108 06-02-0401030109, 06-02-0401030203 06-02-0401030202, 06-02-0401030401	Coastal
06-52-0000000128	Bolivar Peninsula and West Bay Gulf Intracoastal Waterway (GIWW) Shoreline and Island Protection	Ecosystem restoration efforts planned along the GIWW such as the restoration of wetlands and islands, construction of breakwaters, and oyster reef scaling will provide natural buffer from coastal storm surge and prevent erosion.	06-20-0000000011, 06-20-0000000012 06-20-0000000013, 06-20-0000000014	Brazoria, Galveston, Fort Bend, Chambers, Harris, Liberty	06-02-0401030201, 06-02-0401030108 06-02-0401030109, 06-02-0401030203 06-02-0401030202, 06-02-0401030401	Coastal
06-52-0000000129	City of Manvel City Ordinance	The city shall adopt a land use ordinance which requires any structure within the 100-year floodplain to be elevated 2 feet above base flood elevation.	06-20-0000000001, 06-20-0000000007 06-20-0000000010, 06-20-0000000015	Brazoria	06-02-0402040200, 06-02-0402040400 06-02-0402040100	Preparedness
06-52-0000000130	City of Manvel Land-Use Ordinance Adoption	The city shall adopt a land-use ordinance which prohibits building residential or commercial structures in the 100-year floodplain.	06-20-0000000001, 06-20-0000000007 06-20-0000000010, 06-20-0000000015	Brazoria	06-02-0402040200, 06-02-0402040400 06-02-0402040100	Preparedness
06-52-0000000132	City of Manvel GIS Database Improvements	Improve GIS database to include repetitive loss properties areas and flooded structure data. Data to be used for future drainage infrastructure planning and to provide outreach and emergency services to residents in substantial risk zones.	06-20-0000000001, 06-20-0000000007 06-20-0000000010, 06-20-0000000015	Brazoria	06-02-0402040200, 06-02-0402040400 06-02-0402040100	Preparedness
06-52-0000000136	Brazoria County NFIP Technical Material	Place copies of FEMA Flood-related technical bulletins in County libraries.	06-20-0000000001, 06-20-0000000015	Brazoria	06-02-0402040300, 06-02-0402040200 06-02-0402040400, 06-02-0402040100	Other

Table 13 Identified Potentially Feasible Flood Mitigation Projects

								Flood Risk			
FMP ID	FMP Name	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk
06-52-0000000123	City of Cleveland Floodplain Land-Use Ordinance	18.74	Urban or Local	City of Cleveland	City of Cleveland	No	109000	6.830288887	1.081336379	261	133
06-52-0000000124	City of Cleveland Floodplain Ordinance Update	18.74	Urban or Local	City of Cleveland	City of Cleveland	No	109000	6.830288887	1.081336379	261	133
06-52-0000000126	City of Cleveland Ordinance Update Pipeline Right-of-Way	18.74	Urban or Local	City of Cleveland	City of Cleveland	No	55000	6.830288887	1.081336379	261	133
06-52-0000000127	Galveston Bay Surge Protection Coastal Storm Risk Management	1905.01	Coastal	Gulf Coast Protection District	Galveston County, City of Houston, Gulf Coast Protection District, City of Galveston, Liberty County Water Control District 1	Yes	24107060000	340.4665527	169.4227448	103716	85312
06-52-0000000128	Bolivar Peninsula and West Bay Gulf Intracoastal Waterway (GIWW) Shoreline and Island Protection	1559.01	Coastal	Gulf Coast Protection District	Brazoria County, Galveston County, Gulf Coast Protection District, Liberty County Water Control District 1	Yes	1200169000	491.4763794	250.9849854	141236	117117
06-52-0000000129	City of Manvel City Ordinance	27.41	Urban or Local	City of Manvel	Brazoria County, West Brazoria County Drainage District Flood Control District, City of Manvel	No	103000	8.408934593	0.781922936	1250	967
06-52-0000000130	City of Manvel Land-Use Ordinance Adoption	27.41	Urban or Local	City of Manvel	Brazoria County, West Brazoria County Drainage District Flood Control District, City of Manvel	No	103000	8.408934593	0.781922936	1250	966
06-52-0000000132	City of Manvel GIS Database Improvements	27.41	Urban or Local	City of Manvel	Brazoria County, West Brazoria County Drainage District Flood Control District, City of Manvel	No	21000	8.408934593	0.781922936	1250	966
06-52-0000000136	Brazoria County NFIP Technical Material	1481.86	Urban or Local	Brazoria County	Brazoria County	No	21000	179.0649261	46.51158524	18848	14344

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Flood Risk							Reduction in Flood Risk		
FMP ID	FMP Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk
06-52-0000000123	City of Cleveland Floodplain Land-Use Ordinance	1037	0.00		1	27.32999992	1	0	0	0	0
06-52-0000000124	City of Cleveland Floodplain Ordinance Update	1037	0.00		1	27.32999992	1	0	0	0	0
06-52-0000000126	City of Cleveland Ordinance Update Pipeline Right-of-Way	1037	0.00		1	27.32999992	1	0	0	0	0
06-52-0000000127	Galveston Bay Surge Protection Coastal Storm Risk Management	266742	3158.00		39	1680.630005	39	4693.640137	4094	75744	90934
06-52-0000000128	Bolivar Peninsula and West Bay Gulf Intracoastal Waterway (GIWW) Shoreline and Island Protection	423473	2320.00		82	2431.949951	82	0	0	0	0
06-52-0000000129	City of Manvel City Ordinance	6741	8.00		0	43.31999969	0	0	0	0	0
06-52-0000000130	City of Manvel Land-Use Ordinance Adoption	6741	8.00		0	43.31999969	0	0	0	0	0
06-52-0000000132	City of Manvel GIS Database Improvements	6741	8.00		0	43.31999969	0	0	0	0	0
06-52-0000000136	Brazoria County NFIP Technical Material	38626	248.00		0	328.0700073	0	0	0	0	0

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Reduction in Flood Risk									
FMP ID	FMP Name	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-52-0000000123	City of Cleveland Floodplain Land-Use Ordinance	0	0	0.00		0	0	0	0	0	0
06-52-0000000124	City of Cleveland Floodplain Ordinance Update	0	0	0.00		0	0	0	0	0	0
06-52-0000000126	City of Cleveland Ordinance Update Pipeline Right-of-Way	0	0	0.00		0	0	0	0	0	0
06-52-0000000127	Galveston Bay Surge Protection Coastal Storm Risk Management	61751	346773	2086.00		16	1056	16	4693.640137	0	0
06-52-0000000128	Bolivar Peninsula and West Bay Gulf Intracoastal Waterway (GIWW) Shoreline and Island Protection	0	0	0.00		0	0	0	0	0	0
06-52-0000000129	City of Manvel City Ordinance	0	0	0.00		0	0	0	0	0	0
06-52-0000000130	City of Manvel Land-Use Ordinance Adoption	0	0	0.00		0	0	0	0	0	0
06-52-0000000132	City of Manvel GIS Database Improvements	0	0	0.00		0	0	0	0	0	0
06-52-0000000136	Brazoria County NFIP Technical Material	0	0	0.00		0	0	0	0	0	0

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Pre-Project Level-of-Service	Post-Project Level-of-Service	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
06-52-0000000123	City of Cleveland Floodplain Land-Use Ordinance	Unknown	Unknown	0	N	N	0.537963	N	5
06-52-0000000124	City of Cleveland Floodplain Ordinance Update	Unknown	Unknown	0	N	N	0.537963	N	0
06-52-0000000126	City of Cleveland Ordinance Update Pipeline Right-of-Way	Unknown	Unknown	0	N	N	0.537963	N	0
06-52-0000000127	Galveston Bay Surge Protection Coastal Storm Risk Management	Unknown	0.01	0	N	N	0.581461	N	1.91
06-52-0000000128	Bolivar Peninsula and West Bay Gulf Intracoastal Waterway (GIWW) Shoreline and Island Protection	Unknown	0.01	100	N	N	0.582206	N	0
06-52-0000000129	City of Manvel City Ordinance	Unknown	Unknown	0	N	N	0.298941	N	5
06-52-0000000130	City of Manvel Land-Use Ordinance Adoption	Unknown	0.01	0	N	N	0.298941	N	5
06-52-0000000132	City of Manvel GIS Database Improvements	Unknown	Unknown	0	N	N	0.298941	N	0
06-52-0000000136	Brazoria County NFIP Technical Material	Unknown	Unknown	0	N	N	0.439294	N	0

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type
06-52-0000000139	City of Clear Lake Shores - Implement Stormwater Management Practices	The Stormwater management plan is focused on six minimum measures regarding what is being done to prevent stormwater pollution. Annual reporting and renewals are required to ensure compliance is met.	06-20-0000000001, 06-20-0000000007 06-20-0000000010, 06-20-0000000015	Galveston, Harris	06-02-0402040100	Preparedness
06-52-0000000140	City of Clear Lake Shores - Improve Regulations and Permit Requirements	Update regulations and permit requirements.	06-20-0000000001, 06-20-0000000007 06-20-0000000010, 06-20-0000000015	Galveston, Harris	06-02-0402040100	Preparedness
06-52-0000000142	City of Hitchcock - Improve Regulations and Permit Requirements	Improve regulations and permit requirements to promote hazard mitigation strategies.	06-20-0000000001, 06-20-0000000007 06-20-0000000010, 06-20-0000000015	Brazoria, Galveston	06-02-0402040300, 06-02-0402040200	Preparedness
06-52-0000000143	City of Jamaica Beach - Improve Regulations and Permit Requirements	Improve regulations and permit requirements to promote hazard mitigation strategies.	06-20-0000000001, 06-20-0000000007 06-20-0000000010, 06-20-0000000015	Galveston	06-02-0402040300	Preparedness
06-52-0000000144	City of Kemah - Improve Regulations and Permit Requirements	Improve regulations and permit requirements to promote hazard mitigation strategies.	06-20-0000000001, 06-20-0000000007 06-20-0000000010, 06-20-0000000015	Galveston, Chambers	06-02-0402040200, 06-02-0402040100	Preparedness
06-52-0000000145	City of Kemah - Update Floodplain Ordinance	Update floodplain ordinance to ensure compliance with minimum standard of NFIP.	06-20-0000000001, 06-20-0000000007 06-20-0000000010, 06-20-0000000015	Galveston, Chambers	06-02-0402040200, 06-02-0402040100	Preparedness
06-52-0000000146	City of La Marque - Improve Regulations and Permit Requirements	Improve regulations and permit requirements to promote hazard mitigation strategies.	06-20-0000000001, 06-20-0000000007 06-20-0000000010, 06-20-0000000015	Galveston	06-02-0402040200	Preparedness
06-52-0000000148	City of Tiki Island - Improve Regulations and Permit Requirements	Update and/or develop regulations and permits to address hazards prone to the area and include any changes in future development area.	06-20-0000000001, 06-20-0000000007 06-20-0000000010, 06-20-0000000015	Galveston	06-02-0402040200	Preparedness
06-52-0000000149	City of Santa Fe - Improve Regulations and Permit Requirements	Update and/or develop regulations and permits to address hazards prone to the area and include any changes in future development area.	06-20-0000000001, 06-20-0000000007 06-20-0000000010, 06-20-0000000015	Galveston	06-02-0402040300, 06-02-0402040200	Preparedness
06-52-0000000152	City of Galveston Land Use Mapping	Develop proposed land use mapping to allow easier consideration of hazards.	06-20-0000000001, 06-20-0000000007 06-20-0000000010, 06-20-0000000015	Galveston	06-02-0402040300, 06-02-0402040200 06-02-0402040400, 06-02-0402040500	Preparedness
06-52-0000000153	City of Galveston Freeboard Requirement Enforcement	Consider adoption and enforcement of freeboard requirement into City's Flood Damage Prevention Ordinance.	06-20-0000000001, 06-20-0000000007 06-20-0000000010, 06-20-0000000015	Galveston	06-02-0402040300, 06-02-0402040200 06-02-0402040400, 06-02-0402040500	Preparedness

Table 13 Identified Potentially Feasible Flood Mitigation Projects

								Flood Risk			
FMP ID	FMP Name	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk
06-52-0000000139	City of Clear Lake Shores - Implement Stormwater Management Practices	0.71	Riverine	City of Clear Lake Shores	Galveston County, City of Clear Lake Shores	No	109000	0.701051056	0.00938051	633	529
06-52-0000000140	City of Clear Lake Shores - Improve Regulations and Permit Requirements	0.71	Urban or Local	City of Clear Lake Shores	Galveston County, City of Clear Lake Shores	No	109000	0.701051056	0.00938051	633	529
06-52-0000000142	City of Hitchcock - Improve Regulations and Permit Requirements	91.21	Urban or Local	City of Hitchcock	Galveston County, City of Hitchcock	No	109000	78.64964294	11.88202095	2655	2270
06-52-0000000143	City of Jamaica Beach - Improve Regulations and Permit Requirements	0.71	Urban or Local	City of Jamaica Beach	Galveston County, City of Jamaica Beach	No	109000	0.706176043	0	1276	1238
06-52-0000000144	City of Kemah - Improve Regulations and Permit Requirements	1.91	Urban or Local	City of Kemah	Galveston County, City of Kemah	No	109000	0.638168216	0.991962254	562	425
06-52-0000000145	City of Kemah - Update Floodplain Ordinance	1.91	Urban or Local	City of Kemah	Galveston County, City of Kemah	No	109000	0.638168216	0.991962254	562	425
06-52-0000000146	City of La Marque - Improve Regulations and Permit Requirements	14.23	Urban or Local	City of La Marque	Galveston County, City of La Marque	No	109000	3.753694296	9.134355545	829	767
06-52-0000000148	City of Tiki Island - Improve Regulations and Permit Requirements	1.59	Urban or Local	City of Tiki Island	Galveston County, City of Tiki Island	No	109000	1.585464239	0.00062265	1006	978
06-52-0000000149	City of Santa Fe - Improve Regulations and Permit Requirements	17.04	Riverine	City of Santa Fe	Galveston County, City of Santa Fe	No	109000	0.68123287	2.371563435	400	306
06-52-0000000152	City of Galveston Land Use Mapping	211.08	Urban or Local	City of Galveston	Galveston County, City of Galveston	No	11000	76.41335297	2.275701523	21858	19143
06-52-0000000153	City of Galveston Freeboard Requirement Enforcement	211.08	Riverine	City of Galveston	Galveston County, City of Galveston	No	100000	76.41335297	2.275701523	21858	19143

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Flood Risk							Reduction in Flood Risk		
FMP ID	FMP Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk
06-52-0000000139	City of Clear Lake Shores - Implement Stormwater Management Practices	2597	4.00		0	8.829999924	0	0	0	0	0
06-52-0000000140	City of Clear Lake Shores - Improve Regulations and Permit Requirements	2597	4.00		0	8.829999924	0	0	0	0	0
06-52-0000000142	City of Hitchcock - Improve Regulations and Permit Requirements	5294	12.00		0	72.51999664	0	0	0	0	0
06-52-0000000143	City of Jamaica Beach - Improve Regulations and Permit Requirements	275	4.00		0	13.81000042	0	0	0	0	0
06-52-0000000144	City of Kemah - Improve Regulations and Permit Requirements	2792	7.00		0	12.01000023	0	0	0	0	0
06-52-0000000145	City of Kemah - Update Floodplain Ordinance	2792	7.00		0	12.01000023	0	0	0	0	0
06-52-0000000146	City of La Marque - Improve Regulations and Permit Requirements	1455	8.00		1	31.12000084	1	0	0	0	0
06-52-0000000148	City of Tiki Island - Improve Regulations and Permit Requirements	1681	6.00		0	9.640000343	0	0	0	0	0
06-52-0000000149	City of Santa Fe - Improve Regulations and Permit Requirements	748	1.00		9	4.130000114	9	0	0	0	0
06-52-0000000152	City of Galveston Land Use Mapping	64300	509.00		0	408.6300049	0	0	0	0	0
06-52-0000000153	City of Galveston Freeboard Requirement Enforcement	64300	509.00		0	408.6300049	0	0	0	0	0

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Reduction in Flood Risk									
FMP ID	FMP Name	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-52-0000000139	City of Clear Lake Shores - Implement Stormwater Management Practices	0	0	0.00		0	0	0	0	0	0
06-52-0000000140	City of Clear Lake Shores - Improve Regulations and Permit Requirements	0	0	0.00		0	0	0	0	0	0
06-52-0000000142	City of Hitchcock - Improve Regulations and Permit Requirements	0	0	0.00		0	0	0	0	0	0
06-52-0000000143	City of Jamaica Beach - Improve Regulations and Permit Requirements	0	0	0.00		0	0	0	0	0	0
06-52-0000000144	City of Kemah - Improve Regulations and Permit Requirements	0	0	0.00		0	0	0	0	0	0
06-52-0000000145	City of Kemah - Update Floodplain Ordinance	0	0	0.00		0	0	0	0	0	0
06-52-0000000146	City of La Marque - Improve Regulations and Permit Requirements	0	0	0.00		0	0	0	0	0	0
06-52-0000000148	City of Tiki Island - Improve Regulations and Permit Requirements	0	0	0.00		0	0	0	0	0	0
06-52-0000000149	City of Santa Fe - Improve Regulations and Permit Requirements	0	0	0.00		0	0	0	0	0	0
06-52-0000000152	City of Galveston Land Use Mapping	0	0	0.00		0	0	0	0	0	0
06-52-0000000153	City of Galveston Freeboard Requirement Enforcement	0	0	0.00		0	0	0	0	0	0

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Pre-Project Level-of-Service	Post-Project Level-of-Service	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
06-52-0000000139	City of Clear Lake Shores - Implement Stormwater Management Practices	Unknown	0.01	0	N	N	0.451967	N	0
06-52-0000000140	City of Clear Lake Shores - Improve Regulations and Permit Requirements	Unknown	0.01	0	N	N	0.451967	N	5
06-52-0000000142	City of Hitchcock - Improve Regulations and Permit Requirements	Unknown	0.01	0	N	N	0.550482	N	5
06-52-0000000143	City of Jamaica Beach - Improve Regulations and Permit Requirements	Unknown	0.01	0	N	N	0.26795	N	5
06-52-0000000144	City of Kemah - Improve Regulations and Permit Requirements	Unknown	0.01	0	N	N	0.357957	N	5
06-52-0000000145	City of Kemah - Update Floodplain Ordinance	Unknown	0.01	0	N	N	0.357957	N	5
06-52-0000000146	City of La Marque - Improve Regulations and Permit Requirements	Unknown	0.01	0	N	N	0.824342	N	5
06-52-0000000148	City of Tiki Island - Improve Regulations and Permit Requirements	Unknown	0.01	0	N	N	0.4127	N	5
06-52-0000000149	City of Santa Fe - Improve Regulations and Permit Requirements	Unknown	0.01	0	N	N	0.51237	N	5
06-52-0000000152	City of Galveston Land Use Mapping	Varies by Roadways	Unknown	0	N	N	0.611133	N	0
06-52-0000000153	City of Galveston Freeboard Requirement Enforcement	Unknown	Unknown	0	N	N	0.611133	N	5

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type
06-52-0000000167	Greens CDBG MIT Application Projects, including the following local drainage improvements: Castlewood, Fountainview, Humble Rd Place, North Forest, and the larger channelization and detention along Greens Bayou known as the Mid-Reach project.	Projects submitted as part of the CDBG MIT grant in Greens Bayou including Projects: Fountainview Sec 1&2, Castlewood Sec 3&4, North Forest, Mid-Reach Greens, Parkland Estates, and Humble Road Place.	06-20-0000000001, 06-20-0000000005 06-20-0000000006, 06-20-0000000011 06-20-0000000015	Harris	06-02-0401040601, 06-02-0401040604 06-02-0401040602, 06-02-0401040603	Comprehensive
06-52-0000000186	Poor Farm Ditch (D111-00-00) Conveyance Improvements between Bellaire and University Boulevards	Project proposed to improve conveyance within the D111-00-00 channel between Bellaire and University Boulevards. The LOS of the channel is increased from a 10-year event to a 50-year event. Mitigation volume is provided in the Meyer SW Detention Basin.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040402	Channel
06-52-0000000201	City of Alvin Unified Development Ordinance	A unified land development code combines all land use controls into a single document with a logical structure that is user friendly. Cost is time, data and preparation of a unified land development code.	06-20-0000000001, 06-20-0000000007 06-20-0000000010, 06-20-0000000015	Brazoria, Galveston, Fort Bend	06-02-0402040300, 06-02-0402040200 06-02-0402040400, 06-02-0402040100	Preparedness
06-52-0000000311	37th Street Improvement Project	The project proposes storm sewer improvements coupled with implementing a stormwater pump station to addressing 100-year event flooding and improve access to major evacuation routes.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000015	Galveston	06-02-0402040200	Infrastructure
06-52-0000000313	Design and Construction of Dinner Creek Stormwater Detention Basin (2018 Bond project C-38)	Design and Construction of Dinner Creek Stormwater Detention Basin (U520-01-00-E003). Project would expand the existing detention basin to ultimate conditions and incorporate both detention and retention.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040202, 06-02-0401040201 06-02-0401040203, 06-02-0401040303	Detention Pond
06-52-0000000315	Addicks Reservoir - Right-Of-Way Acquisition, Design and Construction of Channel Conveyance Improvements, Bypass Channel, and Detention for South Mayde Creek	Part of the South Mayde Creek Plan that could reduce the risk of flooding for more than 70 homes and reduce the rainfall event by more than 340 acres in a pre-Atlas 1% rainfall event.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040203, 06-02-0401040303 06-02-0401040303	Comprehensive
06-52-0000000319	Design and Construction of the B509-03-00 and B509-04-00 Stormwater Detention Basins (2018 Bond Project C-07)	This project provides for design and construction of three offline detention basins in B509-03-00 and B509-04-00.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0402040100, 06-02-0401040703 06-02-0401040706	Detention Pond
06-52-0000000320	Warren Lake and Dam Retrofit	Retrofit dam to improve detention of flood & storm water runoff, new 137.3 ac wetlands complex added of storage capacity & conversion of fields to tallgrass prairies to add approximately 856 ac-ft of total storage during rainfall events.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401020103, 06-02-0401020101 06-02-0401020105	Comprehensive

Table 13 Identified Potentially Feasible Flood Mitigation Projects

								Flood Risk			
FMP ID	FMP Name	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk
06-52-0000000167	Greens CDBG MIT Application Projects, including the following local drainage improvements: Castlewood, Fountainview, Humble Rd Place, North Forest, and the larger channelization and detention along Greens Bayou known as the Mid-Reach project.	37.91	Riverine	Harris County Flood Control District	Harris County, Harris County Flood Control District Flood Control District, City of Houston	Yes	120284000	8.833008766	3.48904705	4420	3251
06-52-0000000186	Poor Farm Ditch (D111-00-00) Conveyance Improvements between Bellaire and University Boulevards	2.08	Riverine	Harris County Flood Control District	City of Houston, City of Southside Place, City of West University Place, Harris County, Harris County Flood Control District Flood Control District	No	19917000	0.05182068	0.216105044	33	24
06-52-0000000201	City of Alvin Unified Development Ordinance	25.09	Urban or Local	City of Alvin	Brazoria County, West Brazoria County Drainage District Flood Control District, City of Alvin	No	100000	8.786727905	0.865889549	3445	2605
06-52-0000000311	37th Street Improvement Project	0.35	Coastal	City of Galveston	Galveston County, City of Galveston, Gulf Coast Waste Disposal Authority, Houston-Galveston Area Council, Gulf Coast Protection District	No	75000000	0.186678708	0	196	155
06-52-0000000313	Design and Construction of Dinner Creek Stormwater Detention Basin (2018 Bond project C-38)	20.44	Riverine	Harris County Flood Control District	Harris County	No	33081000	1.826153874	0.885496557	306	290
06-52-0000000315	Addicks Reservoir - Right-Of-Way Acquisition, Design and Construction of Channel Conveyance Improvements, Bypass Channel, and Detention for South Mayde Creek	13.20	Riverine	Harris County Flood Control District	Harris County	No	27818000	1.880470157	1.250178576	1015	986
06-52-0000000319	Design and Construction of the B509-03-00 and B509-04-00 Stormwater Detention Basins (2018 Bond Project C-07)	58.91	Riverine	Harris County Flood Control District	City of La Porte, City of Pasadena, Harris County Flood Control District Flood Control District, Harris County	No	34850000	4.05735445	2.910833359	1387	1084
06-52-0000000320	Warren Lake and Dam Retrofit	20.50	Riverine	Coastal Prairie Conservancy	Harris County Flood Control District Flood Control District, Harris County	No	6439000	0	0	47	47

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Flood Risk							Reduction in Flood Risk		
FMP ID	FMP Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk
06-52-0000000167	Greens CDBG MIT Application Projects, including the following local drainage improvements: Castlewood, Fountainview, Humble Rd Place, North Forest, and the larger channelization and detention along Greens Bayou known as the Mid-Reach project.	49996	88.00		0	98.48999786	0	0	2076	1816	1550
06-52-0000000186	Poor Farm Ditch (D111-00-00) Conveyance Improvements between Bellaire and University Boulevards	1410	4.00		0	3.140000105	0	0	20	8	413
06-52-0000000201	City of Alvin Unified Development Ordinance	15192	18.00		0	56.81000137	0	0	0	0	0
06-52-0000000311	37th Street Improvement Project	468	3.00		0	5.809999943	0	0	0	196	0
06-52-0000000313	Design and Construction of Dinner Creek Stormwater Detention Basin (2018 Bond project C-38)	1377	1.00		0	8.140000343	0	0	201	42	27
06-52-0000000315	Addicks Reservoir - Right-Of-Way Acquisition, Design and Construction of Channel Conveyance Improvements, Bypass Channel, and Detention for South Mayde Creek	3403	4.00		0	23.69000053	0	1.029999971	0	264	240
06-52-0000000319	Design and Construction of the B509-03-00 and B509-04-00 Stormwater Detention Basins (2018 Bond Project C-07)	3757	6.00		2	31.45999908	2	0	383	15	87
06-52-0000000320	Warren Lake and Dam Retrofit	94	0.00		0	0	0	0	47	47	20

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Reduction in Flood Risk									
FMP ID	FMP Name	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-52-0000000167	Greens CDBG MIT Application Projects, including the following local drainage improvements: Castlewood, Fountainview, Humble Rd Place, North Forest, and the larger channelization and detention along Greens Bayou known as the Mid-Reach project.	1508	21508	21.00		0	25	0	0	0	0
06-52-0000000186	Poor Farm Ditch (D111-00-00) Conveyance Improvements between Bellaire and University Boulevards	5	54	2.00		0	3	0	0	0	0
06-52-0000000201	City of Alvin Unified Development Ordinance	0	0	0.00		0	0	0	0	0	0
06-52-0000000311	37th Street Improvement Project	155	468	3.00		0	5	0	0	0	0
06-52-0000000313	Design and Construction of Dinner Creek Stormwater Detention Basin (2018 Bond project C-38)	43	0	0.00		0	1	0	0	0	0
06-52-0000000315	Addicks Reservoir - Right-Of-Way Acquisition, Design and Construction of Channel Conveyance Improvements, Bypass Channel, and Detention for South Mayde Creek	238	1225	2.00		0	0	0	1.029999971	0	0
06-52-0000000319	Design and Construction of the B509-03-00 and B509-04-00 Stormwater Detention Basins (2018 Bond Project C-07)	13	114	0.00		0	1	0	0	0	0
06-52-0000000320	Warren Lake and Dam Retrofit	47	94	0.00		0	0	0	0	0	0

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Pre-Project Level-of-Service	Post-Project Level-of-Service	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
06-52-0000000167	Greens CDBG MIT Application Projects, including the following local drainage improvements: Castlewood, Fountainview, Humble Rd Place, North Forest, and the larger channelization and detention along Greens Bayou known as the Mid-Reach project.	Unknown	Unknown	0	N	N	0.663033	N	2.13
06-52-0000000186	Poor Farm Ditch (D111-00-00) Conveyance Improvements between Bellaire and University Boulevards	0.1	0.02	0	N	N	0.276108	N	1.23
06-52-0000000201	City of Alvin Unified Development Ordinance	Unknown	Unknown	0	N	N	0.452878	N	5
06-52-0000000311	37th Street Improvement Project	Unknown	Unknown	0	N	N	0.80565	N	0.08
06-52-0000000313	Design and Construction of Dinner Creek Stormwater Detention Basin (2018 Bond project C-38)	Unknown	Unknown	0	N	N	0.304568	N	0.04
06-52-0000000315	Addicks Reservoir - Right-Of-Way Acquisition, Design and Construction of Channel Conveyance Improvements, Bypass Channel, and Detention for South Mayde Creek	Unknown	Unknown	0	N	N	0.307281	N	0.73
06-52-0000000319	Design and Construction of the B509-03-00 and B509-04-00 Stormwater Detention Basins (2018 Bond Project C-07)	Unknown	Unknown	0	N	N	0.554735	N	0.01
06-52-0000000320	Warren Lake and Dam Retrofit	Unknown	Unknown	100	N	N	0.472367	N	4.45

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type
06-52-0000000321	Right-Of-Way, Design and Construction of Conveyance Improvements along Armand Bayou B500-04-00-E004 and Channel Conveyance Improvements along B115-00-00 (2018 Bond Project F-99)	The proposed project includes the expansion and extension of existing detention basins to alleviate historical and potential future riverine flooding within the Armand Bayou Watershed.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040703, 06-02-0402040100	Detention Pond
06-52-0000000327	Blalock Road Drainage Improvement Project	The proposed drainage improvements project will replace an undersized drainage system on Blalock Road, tie into drainage improvements on South Piney Point Road, and provide improvements on a drainage area that frequently experiences drainage issues.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040303	Infrastructure
06-52-0000000328	Brays Bayou - Keegans Bayou (D118-00-00) Flood Risk Reduction	The proposed project includes widening sections of the Keegans Bayou main channel and a 1,600 acre-feet detention basin.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Fort Bend, Harris	06-02-0401040401, 06-02-0401040501	Comprehensive
06-52-0000000334	Goose Creek Flood Risk Reduction	The project includes three phases of development. Phase 1 includes a regional detention basin and channel improvements along two segments of Goose Creek for a total length of 1.65 miles. Phase 2 includes a regional detention basin and channel improvements	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040705, 06-02-0401040706 06-02-0402030104, 06-02-0402030105 06-02-0402030106	Comprehensive
06-52-0000000339	Willow Creek Watershed Plan - M120 Detention/Preservation Site	The project includes a 1,640 acre-feet regional detention basin, 85 acres of floodplain preservation, & habitat preservation in Willow Creek.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401020105, 06-02-0401020106 06-02-0401020205, 06-02-0401020209 06-02-0401020210, 06-02-0401020212	Detention Pond
06-52-0000000344	White Oak Bayou - Design and Construction of Woodland Trails Stormwater Detention Basin	This project includes a stormwater detention basin that compliments the federal project on White Oak Bayou.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401020104, 06-02-0401020106 06-02-0401040301, 06-02-0401040302 06-02-0401040304, 06-02-0401040305 06-02-0401040601, 06-02-0401040701 06-02-0401040703	Detention Pond
06-52-0000000357	Cypress Creek Program Implementation Plan, 23 Stormwater Detention Basin Plan (Includes 2018 Bond Projects CI-36 and CI-20)	Program implementation plan for the design and construction of 22 regional detention basins (12,800 ac-ft) in the Cypress Creek watershed K100-00-00) based on the Cypress Creek Watershed and Major Tributaries Regional Drainage Plan Update(February 2020).	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401020104, 06-02-0401020106 06-02-0401020105, 06-02-0401020107 06-02-0401020210, 06-02-0401020213 06-02-0401040601, 06-02-0401040201 06-02-0401040301, 06-02-0401040602	Detention Pond

Table 13 Identified Potentially Feasible Flood Mitigation Projects

								Flood Risk			
FMP ID	FMP Name	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk
06-52-0000000321	Right-Of-Way, Design and Construction of Conveyance Improvements along Armand Bayou B500-04-00-E004 and Channel Conveyance Improvements along B115-00-00 (2018 Bond Project F-99)	5.33	Riverine	Harris County Flood Control District	Harris County, Harris County Flood Control District Flood Control District, City of Pasadena, City of Deer Park	No	9450000	13.90859604	0	6363	5381
06-52-0000000327	Blalock Road Drainage Improvement Project	0.88	Riverine	City of Piney Point Village	City of Piney Point Village	No	19324000	0.417718947	0	364	347
06-52-0000000328	Brays Bayou - Keegans Bayou (D118-00-00) Flood Risk Reduction	22.88	Riverine	Harris County Flood Control District	Fort Bend County, Harris County, Harris County Flood Control District Flood Control District	No	190218000	3.252763271	0	3717	3331
06-52-0000000334	Goose Creek Flood Risk Reduction	26.93	Riverine	Harris County Flood Control District	Harris County, Harris County Flood Control District Flood Control District	No	46494000	3.812238932	2.130533695	980	802
06-52-0000000339	Willow Creek Watershed Plan - M120 Detention/Preservation Site	55.37	Riverine	Harris County Flood Control District	Harris County, Harris County Flood Control District Flood Control District, City of Houston	No	64900000	8.641425133	1.468550324	916	640
06-52-0000000344	White Oak Bayou - Design and Construction of Woodland Trails Stormwater Detention Basin	78.39	Riverine	Harris County Flood Control District	Harris County, Harris County Flood Control District Flood Control District, City of Houston	No	42600000	6.920847893	4.951889515	5661	5077
06-52-0000000357	Cypress Creek Program Implementation Plan, 23 Stormwater Detention Basin Plan (Includes 2018 Bond Projects CI-36 and CI-20)	118.36	Riverine	Harris County Flood Control District	City of Houston, Harris County Flood Control District Flood Control District, Harris County	No	550000000	28.2137661	0	16233	14960

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Flood Risk							Reduction in Flood Risk		
FMP ID	FMP Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk
06-52-0000000321	Right-Of-Way, Design and Construction of Conveyance Improvements along Armand Bayou B500-04-00-E004 and Channel Conveyance Improvements along B115-00-00 (2018 Bond Project F-99)	18858	28.00		4	149.6900024	4	0.340000004	1256	230	0
06-52-0000000327	Blalock Road Drainage Improvement Project	1519	0.00		0	6.019999981	0	0	97	54	0
06-52-0000000328	Brays Bayou - Keegans Bayou (D118-00-00) Flood Risk Reduction	20045	57.00		0	94.91000366	0	0	1446	2009	0
06-52-0000000334	Goose Creek Flood Risk Reduction	5318	34.00		1	17.27000046	1	0	383	269	374
06-52-0000000339	Willow Creek Watershed Plan - M120 Detention/Preservation Site	2230	5.00		5	26.98999977	5	0	260	127	23
06-52-0000000344	White Oak Bayou - Design and Construction of Woodland Trails Stormwater Detention Basin	29631	30.00		2	121.2300034	2	0	2115	702	773
06-52-0000000357	Cypress Creek Program Implementation Plan, 23 Stormwater Detention Basin Plan (Includes 2018 Bond Projects CI-36 and CI-20)	49086	158.00		0	264.0299988	0	0	5947	2814	0

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Reduction in Flood Risk									
FMP ID	FMP Name	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-52-0000000321	Right-Of-Way, Design and Construction of Conveyance Improvements along Armand Bayou B500-04-00-E004 and Channel Conveyance Improvements along B115-00-00 (2018 Bond Project F-99)	163	1110	0.00		0	1	0	0.340000004	0	0
06-52-0000000327	Blalock Road Drainage Improvement Project	46	498	0.00		0	1	0	0	0	0
06-52-0000000328	Brays Bayou - Keegans Bayou (D118-00-00) Flood Risk Reduction	1785	16486	29.00		0	150	0	0	0	0
06-52-0000000334	Goose Creek Flood Risk Reduction	220	1283	9.00		0	28	0	0	0	0
06-52-0000000339	Willow Creek Watershed Plan - M120 Detention/Preservation Site	99	548	0.00		0	2	0	0	0	0
06-52-0000000344	White Oak Bayou - Design and Construction of Woodland Trails Stormwater Detention Basin	629	3011	2.00		0	19	0	0	0	0
06-52-0000000357	Cypress Creek Program Implementation Plan, 23 Stormwater Detention Basin Plan (Includes 2018 Bond Projects CI-36 and CI-20)	2664	9880	18.00		0	27	0	0	0	0

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Pre-Project Level-of-Service	Post-Project Level-of-Service	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
06-52-0000000321	Right-Of-Way, Design and Construction of Conveyance Improvements along Armand Bayou B500-04-00-E004 and Channel Conveyance Improvements along B115-00-00 (2018 Bond Project F-99)	Unknown	Unknown	0	N	N	0.807211	N	0.81
06-52-0000000327	Blalock Road Drainage Improvement Project	Unknown	Unknown	0	N	N	0.2837	N	0.004
06-52-0000000328	Brays Bayou - Keegans Bayou (D118-00-00) Flood Risk Reduction	Unknown	Unknown	0	N	N	0.615206	N	0.94
06-52-0000000334	Goose Creek Flood Risk Reduction	Unknown	Unknown	0	N	N	0.746335	N	0.48
06-52-0000000339	Willow Creek Watershed Plan - M120 Detention/Preservation Site	Unknown	Unknown	0	N	N	0.276391	N	0.68
06-52-0000000344	White Oak Bayou - Design and Construction of Woodland Trails Stormwater Detention Basin	Unknown	Unknown	0	N	N	0.592117	N	1.89
06-52-0000000357	Cypress Creek Program Implementation Plan, 23 Stormwater Detention Basin Plan (Includes 2018 Bond Projects CI-36 and CI-20)	Unknown	Varies	0	N	N	0.424029	N	0.284

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type
06-52-0000000360	Kingwood Diversion Ditch (G103-38-00)	Improvements to the Kingwood Diversion Ditch include channel modifications, flow diversion from Bens Branch, bridge replacements, as well as a new outfall to the West Fork San Jacinto River.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris, Montgomery	06-02-0401010404, 06-02-0401010501 06-02-0401030110, 06-02-0401030402	Comprehensive
06-52-0000000389	Design and Construction of E116 tributary modifications and detention (2018 Bond project Z-02)	The proposed project includes channel improvements, upsizing of culverts, siltation removal, local drainage improvements, and a stormwater detention basin within White Oak Bayou Tributary E116-00-00.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040302, 06-02-0401040304	Comprehensive
06-52-0000000396	P518-11-E002 (P118-21 Phase II Detention) (2018 Bond Project C-41)	This project provides for design and construction for the second phase of the Aldine Westfield North Detention Basin in the Halls Bayou watershed.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040604	Comprehensive
06-52-0000000397	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-23-00 and P118-23-02	This project provides for the design and construction of flood mitigation improvements including detention basins along P118-23-00 and concrete lining P118-23-02. (2018 Bond Project C-26 & C-27)	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040605, 06-02-0401040601 06-02-0401040302, 06-02-0401040604 06-02-0401040606, 06-02-0401040304 06-02-0401040603, 06-02-0401040701	Comprehensive
06-52-0000000399	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-25-00 & P118-25-01	This project provides analysis and preliminary design (Alternative 3b) for detention basin, widening of existing channels, and extension of channel P118-25-01 (Halls Bayou Tributary).	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040605, 06-02-0401040601 06-02-0401040302, 06-02-0401040604 06-02-0401040606, 06-02-0401040304 06-02-0401040603, 06-02-0401040701	Comprehensive
06-52-0000000400	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-27-00	This project provides analysis and description of the existing flooding conditions within the P118-27-00 catchment area and consequently develops flood risk mitigation alternatives, including detention basis and channel improvements.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040605, 06-02-0401040601 06-02-0401040302, 06-02-0401040604 06-02-0401040606, 06-02-0401040304 06-02-0401040603, 06-02-0401040701	Comprehensive
06-52-0000000402	Design and Construction of Carpenters Bayou mainstem channel modifications and detention (2018 Bond project F-124)	The proposed project includes the design and construction of approximately two miles of channel improvements along N100-00-00, channel improvements to a short segment of N109-00-00, and a detention basin to mitigate downstream impacts.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401010502, 06-02-0401040602 06-02-0401040604, 06-02-0401040605 06-02-0401040606, 06-02-0401040701 06-02-0401040702, 06-02-0401040703 06-02-0401040704, 06-02-0401040705	Comprehensive

Table 13 Identified Potentially Feasible Flood Mitigation Projects

								Flood Risk			
FMP ID	FMP Name	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk
06-52-0000000360	Kingwood Diversion Ditch (G103-38-00)	21.69	Riverine	Harris County Flood Control District	Harris County, Harris County Flood Control District Flood Control District, City of Houston	No	62938000	0.815800428	0	79	52
06-52-0000000389	Design and Construction of E116 tributary modifications and detention (2018 Bond project Z-02)	6.90	Riverine	Harris County Flood Control District	City of Houston, Harris County Flood Control District Flood Control District, Harris County	No	8375000	8.073444366	0	14652	13403
06-52-0000000396	P518-11-E002 (P118-21 Phase II Detention) (2018 Bond Project C-41)	1.16	Riverine	Harris County Flood Control District	Harris County Flood Control District Flood Control District, Harris County	No	10371000	2.807580948	0.908792913	3412	2477
06-52-0000000397	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-23-00 and P118-23-02	1.57	Riverine	Harris County Flood Control District	City of Houston, Harris County Flood Control District Flood Control District, Harris County	No	31317000	0.161826238	0.274744391	289	244
06-52-0000000399	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-25-00 & P118-25-01	6.01	Riverine	Harris County Flood Control District	City of Houston, Harris County Flood Control District Flood Control District, Harris County	No	14939000	11.31806755	3.847512722	13531	11247
06-52-0000000400	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-27-00	7.77	Riverine	Harris County Flood Control District	City of Houston, Harris County Flood Control District Flood Control District, Harris County	No	23680000	0.163287356	0.082121179	326	277
06-52-0000000402	Design and Construction of Carpenters Bayou mainstem channel modifications and detention (2018 Bond project F-124)	66.38	Riverine	Harris County Flood Control District	Port of Houston Authority	No	30360000	4.31519556	2.849048615	2569	2327

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Flood Risk							Reduction in Flood Risk		
FMP ID	FMP Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk
06-52-0000000360	Kingwood Diversion Ditch (G103-38-00)	3414	18.00		0	1.919999957	0	0	21	49	0
06-52-0000000389	Design and Construction of E116 tributary modifications and detention (2018 Bond project Z-02)	36556	155.00		0	140.0500031	0	0	5042	24	0
06-52-0000000396	P518-11-E002 (P118-21 Phase II Detention) (2018 Bond Project C-41)	740	3.00		1	21.51000023	1	0	557	129	20
06-52-0000000397	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-23-00 and P118-23-02	1108	0.00		0	2.220000029	0	0	3	286	428
06-52-0000000399	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-25-00 & P118-25-01	10940	92.00		7	136.6900024	7	0	0	952	1072
06-52-0000000400	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-27-00	1083	5.00		5	3.480000019	5	0	1	325	167
06-52-0000000402	Design and Construction of Carpenters Bayou mainstem channel modifications and detention (2018 Bond project F-124)	8805	34.00		2	66.55000305	2	0	1346	379	1157

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Reduction in Flood Risk									
FMP ID	FMP Name	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-52-0000000360	Kingwood Diversion Ditch (G103-38-00)	32	3244	10.00		0	25	0	0	0	0
06-52-0000000389	Design and Construction of E116 tributary modifications and detention (2018 Bond project Z-02)	15	0	1.00		0	0	0	0	0	0
06-52-0000000396	P518-11-E002 (P118-21 Phase II Detention) (2018 Bond Project C-41)	84	423	0.00		0	0	0	0	0	0
06-52-0000000397	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-23-00 and P118-23-02	242	1109	0.00		0	23	0	0	0	0
06-52-0000000399	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-25-00 & P118-25-01	625	3088	3.00		0	5	0	0	0	0
06-52-0000000400	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-27-00	276	1811	5.00		0	26	0	0	0	0
06-52-0000000402	Design and Construction of Carpenters Bayou mainstem channel modifications and detention (2018 Bond project F-124)	344	3664	8.00		0	14	0	0	0	0

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Pre-Project Level-of-Service	Post-Project Level-of-Service	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
06-52-0000000360	Kingwood Diversion Ditch (G103-38-00)	Unknown	Unknown	0	N	N	0.336071	N	0.03
06-52-0000000389	Design and Construction of E116 tributary modifications and detention (2018 Bond project Z-02)	Unknown	Unknown	0	N	N	0.762575	N	1.47
06-52-0000000396	P518-11-E002 (P118-21 Phase II Detention) (2018 Bond Project C-41)	Unknown	Unknown	0	N	N	0.47764	N	0.24
06-52-0000000397	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-23-00 and P118-23-02	Varies	Varies	0	N	N	0.473025	N	0.482
06-52-0000000399	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-25-00 & P118-25-01	Varies	Varies	0	N	N	0.505246	N	0.958
06-52-0000000400	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-27-00	Varies	0.01	0	N	N	0.532807	N	2.18
06-52-0000000402	Design and Construction of Carpenters Bayou mainstem channel modifications and detention (2018 Bond project F-124)	Unknown	Unknown	0	N	N	0.624737	N	0.46

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type
06-52-0000000417	Houston Fifth Area Flood Mitigation	This unfunded CDBG-MIT application involves installing various storm sewer infrastructure in the Fifth Ward and Market Square areas within the City of Houston.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040701	Infrastructure
06-52-0000000418	Houston Port Area Flood Mitigation	The project includes storm sewer improvements on nearly every street in the Pleasantville neighborhood to improve conveyance capacity and construction of a detention basin.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040701	Infrastructure
06-52-0000000422	Danubina Drainage Improvements	This CDBG-MIT application involves the installation and construction of improvements along Hull Gully, detention, and storm sewer improvements along Hunnicutt Street.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Chambers, Harris	06-02-0401040705, 06-02-0401040706 06-02-0402030105, 06-02-0402030106 06-02-0402030200	Infrastructure
06-52-0000000424	City of Friendswood - Clear Creek Inline & Offline Detention - Bay Area Blvd. Phase I	This project, which includes terraces, detention, and a trail network, will reduce water surface elevations on Clear Creek within the City of Friendswood and will make the Blackhawk Wastewater Treatment Facility more resilient.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Galveston, Harris	06-02-0402040200, 06-02-0402040100	Detention Pond
06-52-0000000434	Houston Kashmere Gardens Area Flood Mitigation	The project includes improvements to storm sewer, roadside ditch systems, culverts, sewer inlets, and the construction of detention basins.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040703, 06-02-0401040604 06-02-0401040606, 06-02-0401040304 06-02-0401040701	Infrastructure
06-52-0000000453	Rivershire West - Grand Lake Creek Watershed	This project is located in a residential neighborhood and consists of benching, floodwalls, and upsizing culverts to route and contain flow. Additionally, there are proposed bridge modifications to reduce impediments to water flow	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Montgomery	06-02-0401010207, 06-02-0401010401	Channel
06-52-0000000468	Houston Sunnyside Area Flood Mitigation	Includes new storm sewer trunk systems on major thoroughfares & new or improved neighborhood storm sewer systems. Will also require construction of detention basins to mitigate the proposed improvements.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040402, 06-02-0401040502 06-02-0401040501, 06-02-0402040100	Infrastructure
06-52-0000000469	Mainstem Evaluation Projects - Veterans Memorial (2018 Bond Project C-41)	Project consists of ROW acquisition and construction of a detention basin near Veterans Memorial which provides approximately 460 acre-feet of storage.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040604	Detention Pond
06-52-0000000470	Halls Bayou Drainage Project Bond C-01	Provides for design and construction of drainage improvements to P118-26-00 including approximately 119 acre-feet of total storage between two basins and the replacement of a channel with RCBs.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040605, 06-02-0401040601 06-02-0401040302, 06-02-0401040604 06-02-0401040606, 06-02-0401040304 06-02-0401040603, 06-02-0401040701	Comprehensive
06-52-0000000471	Mainstem Evaluation Projects - Parker Basin (2018 Bond Project C-41)	This project provides for design and construction of four detention basins providing approximately 602 ac-ft of storage in the Halls Bayou watershed. Includes a half mile of channel improvements to P118-00-00.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040604	Comprehensive

Table 13 Identified Potentially Feasible Flood Mitigation Projects

								Flood Risk			
FMP ID	FMP Name	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk
06-52-0000000417	Houston Fifth Area Flood Mitigation	40.59	Urban or Local	City of Houston	City of Houston, Harris County Flood Control District Flood Control District, Harris County	No	89754000	0.802269101	0	2162	1973
06-52-0000000418	Houston Port Area Flood Mitigation	40.59	Urban or Local	City of Houston	City of Houston, Harris County Flood Control District Flood Control District, Harris County	No	99022000	0.307610661	0	765	706
06-52-0000000422	Danubina Drainage Improvements	47.53	Riverine	City of Baytown	Harris County, Harris County Flood Control District Flood Control District	No	18468000	0.106795087	2.281E-05	137	118
06-52-0000000424	City of Friendswood - Clear Creek Inline & Offline Detention - Bay Area Blvd. Phase I	20.83	Riverine	City of Friendswood	City of Friendswood, Harris County, Harris County Flood Control District Flood Control District, Galveston County	No	65800000	0	0	4952	4507
06-52-0000000434	Houston Kashmere Gardens Area Flood Mitigation	30.87	Urban or Local	City of Houston	City of Houston, Harris County Flood Control District Flood Control District, Harris County	No	94880000	0.556520939	0	1221	1135
06-52-0000000453	Rivershire West - Grand Lake Creek Watershed	1.65	Riverine	City of Conroe	Montgomery County, City of Conroe	No	30000000	1.180588961	0	690	561
06-52-0000000468	Houston Sunnyside Area Flood Mitigation	23.57	Urban or Local	City of Houston	City of Houston, Harris County Flood Control District Flood Control District, Harris County	No	111282000	3.89470911	0	7876	7293
06-52-0000000469	Mainstem Evaluation Projects - Veterans Memorial (2018 Bond Project C-41)	5.49	Riverine	Harris County Flood Control District	City of Houston, Harris County Flood Control District Flood Control District, Harris County	No	35250000	10.81983757	4.078909874	13748	11375
06-52-0000000470	Halls Bayou Drainage Project Bond C-01	1.18	Riverine	Harris County Flood Control District	City of Houston, Harris County Flood Control District Flood Control District, Harris County	No	22386000	0.293681711	0.0784631	677	569
06-52-0000000471	Mainstem Evaluation Projects - Parker Basin (2018 Bond Project C-41)	0.14	Riverine	Harris County Flood Control District	Harris County Flood Control District Flood Control District, Harris County	No	38230000	1.018096924	0.815996766	886	835

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Flood Risk							Reduction in Flood Risk		
FMP ID	FMP Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk
06-52-0000000417	Houston Fifth Area Flood Mitigation	6289	19.00		0	35.54000092	0	0.01	634	1306	0
06-52-0000000418	Houston Port Area Flood Mitigation	2550	20.00		0	13.56999969	0	0.25	193	538	0
06-52-0000000422	Danubina Drainage Improvements	428	0.00		0	4.920000076	0	0	22	111	0
06-52-0000000424	City of Friendswood - Clear Creek Inline & Offline Detention - Bay Area Blvd. Phase I	16927	189.00		11	574.710022	11	2.849999905	3088	172	0
06-52-0000000434	Houston Kashmere Gardens Area Flood Mitigation	2985	5.00		0	20.60000038	0	0	238	457	0
06-52-0000000453	Rivershire West - Grand Lake Creek Watershed	1890	10.00		0	10.60999966	0	0	415	100	0
06-52-0000000468	Houston Sunnyside Area Flood Mitigation	22844	97.00		0	104.7200012	0	0.039999999	2704	1410	0
06-52-0000000469	Mainstem Evaluation Projects - Veterans Memorial (2018 Bond Project C-41)	6243	91.00		7	127.0299988	7	0	3731	292	176
06-52-0000000470	Halls Bayou Drainage Project Bond C-01	1593	0.00		3	2.630000114	3	0	0	677	149
06-52-0000000471	Mainstem Evaluation Projects - Parker Basin (2018 Bond Project C-41)	4	13.00		0	11.10999966	0	0	276	76	125

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Reduction in Flood Risk									
FMP ID	FMP Name	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-52-0000000417	Houston Fifth Area Flood Mitigation	1202	4125	16.00		0	16	0	0.01	0	0
06-52-0000000418	Houston Port Area Flood Mitigation	514	1912	0.00		0	2	0	0.25	0	0
06-52-0000000422	Danubina Drainage Improvements	86	304	0.00		0	10	0	0	0	0
06-52-0000000424	City of Friendswood - Clear Creek Inline & Offline Detention - Bay Area Blvd. Phase I	0	0	2.00		0	7	0	2.849999905	0	0
06-52-0000000434	Houston Kashmere Gardens Area Flood Mitigation	370	1494	1.00		0	0	0	0	0	0
06-52-0000000453	Rivershire West - Grand Lake Creek Watershed	92	566	1.00		0	2	0	0	0	0
06-52-0000000468	Houston Sunnyside Area Flood Mitigation	1273	4760	20.00		0	9	0	0.039999999	0	0
06-52-0000000469	Mainstem Evaluation Projects - Veterans Memorial (2018 Bond Project C-41)	231	1037	1.00		0	6	0	0	0	0
06-52-0000000470	Halls Bayou Drainage Project Bond C-01	568	0	0.00		1	3	1	0	0	0
06-52-0000000471	Mainstem Evaluation Projects - Parker Basin (2018 Bond Project C-41)	28	319	0.00		0	1	0	0	0	0

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Pre-Project Level-of-Service	Post-Project Level-of-Service	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
06-52-0000000417	Houston Fifth Area Flood Mitigation	Unknown	Unknown	0	N	N	0.805377	N	1.87
06-52-0000000418	Houston Port Area Flood Mitigation	Unknown	Unknown	0	N	N	0.805377	N	0.3
06-52-0000000422	Danubina Drainage Improvements	Unknown	Unknown	0	N	N	0.671908	N	0.96
06-52-0000000424	City of Friendswood - Clear Creek Inline & Offline Detention - Bay Area Blvd. Phase I	Unknown	Unknown	0	N	Y	0.434925	N	0.21
06-52-0000000434	Houston Kashmere Gardens Area Flood Mitigation	Unknown	Unknown	0	N	N	0.822837	N	1.09
06-52-0000000453	Rivershire West - Grand Lake Creek Watershed	Unknown	Unknown	0	N	N	0.633125	N	0.11
06-52-0000000468	Houston Sunnyside Area Flood Mitigation	Unknown	Unknown	0	N	N	0.839327	N	1.2
06-52-0000000469	Mainstem Evaluation Projects - Veterans Memorial (2018 Bond Project C-41)	Unknown	Unknown	0	N	N	0.642842	N	0.49
06-52-0000000470	Halls Bayou Drainage Project Bond C-01	Unknown	Unknown	0	N	N	0.220925	N	2.32
06-52-0000000471	Mainstem Evaluation Projects - Parker Basin (2018 Bond Project C-41)	Unknown	Unknown	0	N	N	0.9298	N	0.18

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type
06-52-0000000472	Right-Of-Way Acquisition, Design and Construction of a Stormwater Detention Basin on South Mayde Creek near the Grand Parkway (2018 Bond Project C-48)	This project includes the design and construction of three detention basins (226 ac-ft) along South Mayde Creek (U101-00-00).	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris, Waller	06-02-0401040203	Detention Pond
06-52-0000000473	Design and Construction of Little York Stormwater Detention Basin (2018 Bond Project C-37)	This project includes three regional detention pond cells along Langham Creek within the Addicks Reservoir watershed to mitigate peak discharges expected with new development in the area.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040201	Detention Pond
06-52-0000000474	Clear Creek Mid reach (Based on 2012 GRR) Updated Plan (2018 Bond Projects C-03 and F-02)	The proposed project includes channel improvements and inline detention from Cullen Boulevard to Pearland Parkway along with additional offline detention basins to mitigate for impacts from additional conveyance in the mainstem of Clear Creek.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris, Fort Bend, Brazoria, Galveston	06-02-0401040501, 06-02-0401040502 06-02-0401040703, 06-02-0402040100 06-02-0402040200, 06-02-0402040400	Comprehensive
06-52-0000000475	Mainstem Evaluation Projects - Hahl Basin (2018 Bond Project C-41)	This project provides for design and construction of a 311 ac-ft dry-bottom detention basin and 20-ft of channel improvements to P118-21-00.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040604	Comprehensive
06-52-0000000476	Cypress Creek Watershed Major Tributaries Regional Drainage Plan Update, Alternative 1 Basins K500-01 and Stuebner Airline Road (2018 Bond Projects CI-36 and CI-20)	Provides for design and construction of two detention basins in the Cypress Creek watershed, including a new 4,756 ac-ft detention basin and an expansion of an existing HCFCD detention basin along K500-01-00 from 531 ac-ft to 9,336 ac-ft of storage.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401020104	Detention Pond
06-52-0000000477	P118-E006 (Hardy West) (2018 Bond Project C-41)	Proposal of the Hardy West Detention Basin (P118-00-00-E006). Project consists of 2 basins providing 400 acre-ft of detention volume adjacent to Halls Bayou and separated by P118-25-00.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040604, 06-02-0401040304 06-02-0401040603, 06-02-0401040701	Detention Pond
06-52-0000000480	Kilgore Regional Detention Atlas 14 Upgrade	Improve the existing system of the Kilgore Regional Detention project to confine flows from the Atlas-14 100-year event. Detention Ponds and channel improvements are included as part of the project's scope.	06-20-0000000001, 06-20-0000000015	Chambers	06-02-0402030106	Comprehensive
06-52-0000000481	Staples Drive Improvements	Install a trunkline at Staples Drive for alleviating flooding in the neighborhood. Channel improvements are to be completed downstream of the trunkline along Horsepen Bayou to eliminate impacts.	06-20-0000000001, 06-20-0000000015	Chambers	06-02-0402030106	Comprehensive
06-52-0000000482	Saw Pit Gully Crossing Improvements	Upgrade the culvert crossing at FM 1405 as well as select crossings downstream along Saw Pit Gully. Channel improvements are to be completed alongside the upgrades to eliminate impacts.	06-20-0000000001, 06-20-0000000015	Chambers	06-02-0402030106	Comprehensive
06-52-0000000483	Smith Gully and Barbers Hill Ditch	Channel improvements for 100-year capacity in Smith Gully and Barbers Hill Ditch.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000015	Chambers	06-02-0402030105, 06-02-0402030104	Channel

Table 13 Identified Potentially Feasible Flood Mitigation Projects

								Flood Risk			
FMP ID	FMP Name	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk
06-52-0000000472	Right-Of-Way Acquisition, Design and Construction of a Stormwater Detention Basin on South Mayde Creek near the Grand Parkway (2018 Bond Project C-48)	44.67	Riverine	Harris County Flood Control District	Harris County Flood Control District Flood Control District, Harris County	No	11440000	6.475640297	2.8694942	2339	2204
06-52-0000000473	Design and Construction of Little York Stormwater Detention Basin (2018 Bond Project C-37)	0.58	Riverine	Harris County Flood Control District	Harris County Flood Control District Flood Control District, Harris County	No	2553000	0.105332002	0	54	49
06-52-0000000474	Clear Creek Mid reach (Based on 2012 GRR) Updated Plan (2018 Bond Projects C-03 and F-02)	200.27	Riverine	Harris County Flood Control District	Brazoria County	No	295268000	40.35139465	16.6547718	18615	16131
06-52-0000000475	Mainstem Evaluation Projects - Hahl Basin (2018 Bond Project C-41)	2.31	Riverine	Harris County Flood Control District	Harris County Flood Control District Flood Control District, Harris County	No	40780000	0.238894999	0.258769989	642	503
06-52-0000000476	Cypress Creek Watershed Major Tributaries Regional Drainage Plan Update, Alternative 1 Basins K500-01 and Stuebner Airline Road (2018 Bond Projects CI-36 and CI-20)	273.03	Riverine	Harris County Flood Control District	Harris County Flood Control District Flood Control District, Harris County	No	345330000	0	0	18530	16070
06-52-0000000477	P118-E006 (Hardy West) (2018 Bond Project C-41)	17.39	Riverine	Harris County Flood Control District	Harris County	No	32053000	2.727412462	0.737395823	3665	2679
06-52-0000000480	Kilgore Regional Detention Atlas 14 Upgrade	1.59	Riverine	Chambers County	Chambers County	No	157246000	0.589999974	0.370000005	16	16
06-52-0000000481	Staples Drive Improvements	0.09	Urban or Local	Chambers County	Chambers County	No	4878000	0.079999998	0.01	132	120
06-52-0000000482	Saw Pit Gully Crossing Improvements	1.15	Riverine	Chambers County	Chambers County	No	10904000	0.519999981	0.209999993	77	57
06-52-0000000483	Smith Gully and Barbers Hill Ditch	68.74	Riverine	Chambers County	Chambers County	No	49467000	38.03179932	0	1544	768

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Flood Risk							Reduction in Flood Risk		
FMP ID	FMP Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk
06-52-0000000472	Right-Of-Way Acquisition, Design and Construction of a Stormwater Detention Basin on South Mayde Creek near the Grand Parkway (2018 Bond Project C-48)	8067	43.00		0	48.68000031	0	0	928	59	2002
06-52-0000000473	Design and Construction of Little York Stormwater Detention Basin (2018 Bond Project C-37)	356	0.00		0	1.330000043	0	0	22	5	0
06-52-0000000474	Clear Creek Mid reach (Based on 2012 GRR) Updated Plan (2018 Bond Projects C-03 and F-02)	57612	144.00		5	445.8299866	5	0	8990	770	1418
06-52-0000000475	Mainstem Evaluation Projects - Hahl Basin (2018 Bond Project C-41)	1750	0.00		0	6.789999962	0	0.01	48	4	7
06-52-0000000476	Cypress Creek Watershed Major Tributaries Regional Drainage Plan Update, Alternative 1 Basins K500-01 and Stuebner Airline Road (2018 Bond Projects CI-36 and CI-20)	36147	144.00		4	447.6400146	4	0	6382	1488	2098
06-52-0000000477	P118-E006 (Hardy West) (2018 Bond Project C-41)	9997	3.00		1	22.98999977	1	0	737	61	0
06-52-0000000480	Kilgore Regional Detention Atlas 14 Upgrade	48	0.00		0	0.388579994	0	11.39360046	0	16	91
06-52-0000000481	Staples Drive Improvements	360	0.00		0	0.325760007	0	0.591300011	66	19	6
06-52-0000000482	Saw Pit Gully Crossing Improvements	171	0.00		0	1.233340025	0	5.761000156	42	28	6
06-52-0000000483	Smith Gully and Barbers Hill Ditch	2274	154.00		1	20.70545959	1	3986.935059	166	30	0

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Reduction in Flood Risk									
FMP ID	FMP Name	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-52-0000000472	Right-Of-Way Acquisition, Design and Construction of a Stormwater Detention Basin on South Mayde Creek near the Grand Parkway (2018 Bond Project C-48)	59	194	0.00		0	0	0	0	0	0
06-52-0000000473	Design and Construction of Little York Stormwater Detention Basin (2018 Bond Project C-37)	5	0	0.00		0	0	0	0	0	0
06-52-0000000474	Clear Creek Mid reach (Based on 2012 GRR) Updated Plan (2018 Bond Projects C-03 and F-02)	722	0	0.00		0	0	0	0	0	0
06-52-0000000475	Mainstem Evaluation Projects - Hahl Basin (2018 Bond Project C-41)	4	0	0.00		0	0	0	0.01	0	0
06-52-0000000476	Cypress Creek Watershed Major Tributaries Regional Drainage Plan Update, Alternative 1 Basins K500-01 and Stuebner Airline Road (2018 Bond Projects CI-36 and CI-20)	1304	7070	10.00		0	22	0	0	0	0
06-52-0000000477	P118-E006 (Hardy West) (2018 Bond Project C-41)	36	121	0.00		0	1	0	0	0	0
06-52-0000000480	Kilgore Regional Detention Atlas 14 Upgrade	16	48	0.00		0	0	0	8.301210403	0	0
06-52-0000000481	Staples Drive Improvements	16	48	0.00		0	0	0	0.156719998	0	0
06-52-0000000482	Saw Pit Gully Crossing Improvements	24	72	0.00		0	0	0	1.205250025	0	0
06-52-0000000483	Smith Gully and Barbers Hill Ditch	10	33	4.00		1	1	1	12.35496998	0	0

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Pre-Project Level-of-Service	Post-Project Level-of-Service	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
06-52-0000000472	Right-Of-Way Acquisition, Design and Construction of a Stormwater Detention Basin on South Mayde Creek near the Grand Parkway (2018 Bond Project C-48)	Unknown	Unknown	0	N	N	0.318654	N	0.18
06-52-0000000473	Design and Construction of Little York Stormwater Detention Basin (2018 Bond Project C-37)	Unknown	Unknown	0	N	N	0.452725	N	0.05
06-52-0000000474	Clear Creek Mid reach (Based on 2012 GRR) Updated Plan (2018 Bond Projects C-03 and F-02)	Unknown	Unknown	0	N	N	0.442814	N	0.54
06-52-0000000475	Mainstem Evaluation Projects - Hahl Basin (2018 Bond Project C-41)	Unknown	Unknown	0	N	N	0.467778	N	0.21
06-52-0000000476	Cypress Creek Watershed Major Tributaries Regional Drainage Plan Update, Alternative 1 Basins K500-01 and Stuebner Airline Road (2018 Bond Projects CI-36 and CI-20)	Unknown	Unknown	0	N	N	0.418325	N	0.391
06-52-0000000477	P118-E006 (Hardy West) (2018 Bond Project C-41)	Unknown	Unknown	0	N	N	0.576942	N	0.38
06-52-0000000480	Kilgore Regional Detention Atlas 14 Upgrade	10-Year	100-Year	0	N	N	0.36505	N	0.02
06-52-0000000481	Staples Drive Improvements	2-Year	10-Year	0	N	N	0.123	N	5.26
06-52-0000000482	Saw Pit Gully Crossing Improvements	2-Year	100-Year	0	N	N	0.36505	N	0.37
06-52-0000000483	Smith Gully and Barbers Hill Ditch	2-Year	100-Year	0	N	N	0.514022	N	0.052852

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type
06-52-0000000484	South Kemah, Alt 2	Acquire parcel for detention basin with ~62 ac-ft storage. Build 5'x5' outfall to Jarbo Ditch to restrict flow to pre-development levels. Add ditch interceptors for erosion control. A pump station may reduce land needed for basin construction.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Galveston	06-02-0402040200, 06-02-0402040100	Detention Pond
06-52-0000000485	South Kemah, Alt 1	System Drainage Improvements based on a 5-year storm event	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Galveston	06-02-0402040200, 06-02-0402040100	Storm Drain
06-52-0000000486	Jarbo Ditch	Increase LOS of Jarbo Ditch, upsize storm system	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Galveston	06-02-0402040200, 06-02-0402040100	Storm Drain
06-52-0000000487	Walnut Creek & Birch Creek Detention	2 Regional detention basins constructed along Birch Creek and Walnut Creek	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris, Waller, Montgomery, Grimes		Detention Pond
06-52-0000000488	City of West University Place West Side Drainage Improvements	Construct a new storm sewer trunkline within the ELPH Enterprises pipeline corridor on the west side of the City. Reroute existing storm sewer network for efficiency and direct toward the new trunkline. Upsize storm sewers throughout.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040402	Storm Drain
06-52-0000000489	Medical Complex Blvd Storm Sewer Extension to M118-00-00	Construct new storm sewer from Medical Complex Drive to the head of M118-00-00 (M118 CIP #2) within an unimproved right-of-way.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401020210	Storm Drain
06-52-0000000490	M500-01 Detention Pond Excavation Ultimate Condition)	Reconstruct existing stormwater detention pond to a wet-bottom facility, including removal of existing peninsula and bank repair along northern and eastern high banks. Install ultimate outfall to Willow Creek (M100-00-00).	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401020210	Detention Pond

Table 13 Identified Potentially Feasible Flood Mitigation Projects

								Flood Risk			
FMP ID	FMP Name	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk
06-52-0000000484	South Kemah, Alt 2	1.02	Riverine, Urban or Local	City of Kemah	City of Kemah		4120010				
06-52-0000000485	South Kemah, Alt 1	1.02	Riverine, Urban or Local	City of Kemah	City of Kemah		3900000				
06-52-0000000486	Jarbo Ditch	1.02	Riverine, Urban or Local	City of Kemah	City of Kemah		1359915				
06-52-0000000487	Walnut Creek & Birch Creek Detention	384.39	Riverine	San Jacinto River Authority	San Jacinto River Authority		298410400				
06-52-0000000488	City of West University Place West Side Drainage Improvements	2.50	Riverine, Urban or Local	West University Place	West University Place		100898200				
06-52-0000000489	Medical Complex Blvd Storm Sewer Extension to M118-00-00	1.56	Urban or Local	City of Tomball	City of Tomball		723850				
06-52-0000000490	M500-01 Detention Pond Excavation Ultimate Condition)	2.68	Riverine	City of Tomball	City of Tomball		8067750				

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Flood Risk							Reduction in Flood Risk		
FMP ID	FMP Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk
06-52-0000000484	South Kemah, Alt 2										
06-52-0000000485	South Kemah, Alt 1										
06-52-0000000486	Jarbo Ditch										
06-52-0000000487	Walnut Creek & Birch Creek Detention										
06-52-0000000488	City of West University Place West Side Drainage Improvements										
06-52-0000000489	Medical Complex Blvd Storm Sewer Extension to M118-00-00										
06-52-0000000490	M500-01 Detention Pond Excavation Ultimate Condition)										

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Reduction in Flood Risk									
FMP ID	FMP Name	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-52-0000000484	South Kemah, Alt 2										
06-52-0000000485	South Kemah, Alt 1										
06-52-0000000486	Jarbo Ditch										
06-52-0000000487	Walnut Creek & Birch Creek Detention										
06-52-0000000488	City of West University Place West Side Drainage Improvements										
06-52-0000000489	Medical Complex Blvd Storm Sewer Extension to M118-00-00										
06-52-0000000490	M500-01 Detention Pond Excavation Ultimate Condition)										

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Pre-Project Level-of-Service	Post-Project Level-of-Service	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
06-52-0000000484	South Kemah, Alt 2								
06-52-0000000485	South Kemah, Alt 1								
06-52-0000000486	Jarbo Ditch								
06-52-0000000487	Walnut Creek & Birch Creek Detention								
06-52-0000000488	City of West University Place West Side Drainage Improvements								
06-52-0000000489	Medical Complex Blvd Storm Sewer Extension to M118-00-00								
06-52-0000000490	M500-01 Detention Pond Excavation Ultimate Condition)								

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type
06-52-0000000491	M118-01-01 Channel Improvements (Phase 1)	Excavate and deepen existing City drainage channel by reconstructing outfall connection to S. Persimmon storm sewer system. Construct lateral channel from Lizzie Lane to M118-01-01 and upgrade Lizzie Lane cross culvert.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401020210	Infrastructure
06-52-0000000492	M121-01-00 (M121 WEST) Channel Reconstruction From Medical Complex Drive to Hardin Street	Reconstruct and reestablish channel side slopes and bottom from upstream of Medical Complex Drive crossing to head of M121-01-00 at M121-01-01 and M121-01-02 laterals.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401020210	Infrastructure
06-52-0000000493	M121-01-01 (Hardin Street East) Channel Construction to Cherry Street	Construct eastern lateral of M121-01-00 from M121-01-00 to Cherry Street within limits of Hardin Street right-of-way. Concrete-lined channel construction proposed to limit disturbance of existing City infrastructure within Hardin Street.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401020210	Infrastructure
06-52-0000000494	Cherry Laurel Storm Sewer Improvements	Install outfall structures to M121-01-01 lateral by replacing existing curb opening with standard curb inlet and storm sewer.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401020210	Storm Drain
06-52-0000000495	Hampton Place Storm Sewer Improvements	Redirect multi-family complex storm sewer outfall to M121-01-00 by replacing existing inlets and constructing new storm sewer system.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401020210	Storm Drain
06-52-0000000496	Magnolia Street Storm Sewer Improvements	Construct storm sewer system along S. Magnolia Street and retain existing roadside ditches. Outfall to M121-01-01 through City of Tomball Public Works property.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401020210	Storm Drain
06-52-0000000497	M121-01-02 (Hardin Street West) Channel To School Street	Construct M121-01-03 (western lateral of M121-01-00) to School Street along Hardin Street right-of-way. Install School Street cross culvert.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401020210	Infrastructure

Table 13 Identified Potentially Feasible Flood Mitigation Projects

								Flood Risk			
FMP ID	FMP Name	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk
06-52-0000000491	M118-01-01 Channel Improvements (Phase 1)	1.56	Urban or Local	City of Tomball	City of Tomball		1604715				
06-52-0000000492	M121-01-00 (M121 WEST) Channel Reconstruction From Medical Complex Drive to Hardin Street	2.68	Urban or Local	City of Tomball	City of Tomball		491040				
06-52-0000000493	M121-01-01 (Hardin Street East) Channel Construction to Cherry Street	2.68	Urban or Local	City of Tomball	City of Tomball		1478700				
06-52-0000000494	Cherry Laurel Storm Sewer Improvements	2.68	Urban or Local	City of Tomball	City of Tomball		117025				
06-52-0000000495	Hampton Place Storm Sewer Improvements	2.68	Urban or Local	City of Tomball	City of Tomball		892843				
06-52-0000000496	Magnolia Street Storm Sewer Improvements	2.68	Urban or Local	City of Tomball	City of Tomball		2168605				
06-52-0000000497	M121-01-02 (Hardin Street West) Channel To School Street	2.68	Urban or Local	City of Tomball	City of Tomball		822430				

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Flood Risk							Reduction in Flood Risk		
FMP ID	FMP Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk
06-52-0000000491	M118-01-01 Channel Improvements (Phase 1)										
06-52-0000000492	M121-01-00 (M121 WEST) Channel Reconstruction From Medical Complex Drive to Hardin Street										
06-52-0000000493	M121-01-01 (Hardin Street East) Channel Construction to Cherry Street										
06-52-0000000494	Cherry Laurel Storm Sewer Improvements										
06-52-0000000495	Hampton Place Storm Sewer Improvements										
06-52-0000000496	Magnolia Street Storm Sewer Improvements										
06-52-0000000497	M121-01-02 (Hardin Street West) Channel To School Street										

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Reduction in Flood Risk									
FMP ID	FMP Name	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-52-0000000491	M118-01-01 Channel Improvements (Phase 1)										
06-52-0000000492	M121-01-00 (M121 WEST) Channel Reconstruction From Medical Complex Drive to Hardin Street										
06-52-0000000493	M121-01-01 (Hardin Street East) Channel Construction to Cherry Street										
06-52-0000000494	Cherry Laurel Storm Sewer Improvements										
06-52-0000000495	Hampton Place Storm Sewer Improvements										
06-52-0000000496	Magnolia Street Storm Sewer Improvements										
06-52-0000000497	M121-01-02 (Hardin Street West) Channel To School Street										

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Pre-Project Level-of-Service	Post-Project Level-of-Service	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
06-52-0000000491	M118-01-01 Channel Improvements (Phase 1)								
06-52-0000000492	M121-01-00 (M121 WEST) Channel Reconstruction From Medical Complex Drive to Hardin Street								
06-52-0000000493	M121-01-01 (Hardin Street East) Channel Construction to Cherry Street								
06-52-0000000494	Cherry Laurel Storm Sewer Improvements								
06-52-0000000495	Hampton Place Storm Sewer Improvements								
06-52-0000000496	Magnolia Street Storm Sewer Improvements								
06-52-0000000497	M121-01-02 (Hardin Street West) Channel To School Street								

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type
06-52-0000000498	Mulberry Street Strom Sewer	Construct storm sewer along Mulberry Street and connect with M121 CIP #11.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401020210	Infrastructure
06-52-0000000499	M521-02 Detention Pond	Construct detention pond.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401020210	Infrastructure
06-52-0000000500	S. Pine Street Storm Sewer Improvements (From Malone Street to Hardin Street)	Construct a storm sewer system along Pine Street while maintaining existing roadside ditches. Improvements are assumed as part of roadway reconstruction.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401020210	Storm Drain
06-52-0000000501	Flood-proof sewage treatment plants in flood hazard/low-lying areas	Flood-proof sewage treatment plants in flood hazard/low-lying areas	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris, Brazoria, Fort Bend, Waller, Montgomery		Floodproofing
06-52-0000000502	Installing flood level signs for bridges and overpasses.	Installing flood level signs for bridges and overpasses.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris, Brazoria, Fort Bend, Waller, Montgomery		Floodproofing
06-52-0000000503	West Texas Avenue Drainage Improvements	West Texas Avenue Drainage Improvements: Improve drainage in the surrounding neighborhoods by installing new storm sewer system and stormwater detention pond, reconstructing the streets, driveways, replace sidewalks, water system and sewer system.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Chambers, Harris	06-02-0401040705, 06-02-0401040706 06-02-0402030105, 06-02-0402030106 06-02-0402030200	Infrastructure
06-52-0000000504	South Main & Republic Drainage Improvements Phase I	South Main & Republic Drainage Improvements Phase I: Install storm sewers and detention pond to improve drainage. Reconstruct streets, driveways, sidewalks, and upgrade water and sewer systems in surrounding neighborhoods.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Chambers, Harris	06-02-0401040705, 06-02-0401040706 06-02-0402030105, 06-02-0402030106 06-02-0402030200	Storm Drain

Table 13 Identified Potentially Feasible Flood Mitigation Projects

								Flood Risk			
FMP ID	FMP Name	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk
06-52-0000000498	Mulberry Street Strom Sewer	2.68	Urban or Local	City of Tomball	City of Tomball		1760490				
06-52-0000000499	M521-02 Detention Pond	2.68	Riverine	City of Tomball	City of Tomball		35231380				
06-52-0000000500	S. Pine Street Storm Sewer Improvements (From Malone Street to Hardin Street)	2.68	Riverine, Urban or Local	City of Tomball	City of Tomball		1636335				
06-52-0000000501	Flood-proof sewage treatment plants in flood hazard/low-lying areas	669.27	Urban or Local	City of Houston	City of Houston		250000				
06-52-0000000502	Installing flood level signs for bridges and overpasses.	669.27	Urban or Local	City of Houston	City of Houston		850000				
06-52-0000000503	West Texas Avenue Drainage Improvements	38.05	Urban or Local	City of Baytown	City of Baytown		4000000				
06-52-0000000504	South Main & Republic Drainage Improvements Phase I	38.05	Urban or Local	City of Baytown	City of Baytown		2000000				

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Flood Risk							Reduction in Flood Risk		
FMP ID	FMP Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk
06-52-0000000498	Mulberry Street Strom Sewer										
06-52-0000000499	M521-02 Detention Pond										
06-52-0000000500	S. Pine Street Storm Sewer Improvements (From Malone Street to Hardin Street)										
06-52-0000000501	Flood-proof sewage treatment plants in flood hazard/low-lying areas										
06-52-0000000502	Installing flood level signs for bridges and overpasses.										
06-52-0000000503	West Texas Avenue Drainage Improvements										
06-52-0000000504	South Main & Republic Drainage Improvements Phase I										

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Reduction in Flood Risk									
FMP ID	FMP Name	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-52-0000000498	Mulberry Street Strom Sewer										
06-52-0000000499	M521-02 Detention Pond										
06-52-0000000500	S. Pine Street Storm Sewer Improvements (From Malone Street to Hardin Street)										
06-52-0000000501	Flood-proof sewage treatment plants in flood hazard/low-lying areas										
06-52-0000000502	Installing flood level signs for bridges and overpasses.										
06-52-0000000503	West Texas Avenue Drainage Improvements										
06-52-0000000504	South Main & Republic Drainage Improvements Phase I										

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Pre-Project Level-of-Service	Post-Project Level-of-Service	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
06-52-0000000498	Mulberry Street Strom Sewer								
06-52-0000000499	M521-02 Detention Pond								
06-52-0000000500	S. Pine Street Storm Sewer Improvements (From Malone Street to Hardin Street)								
06-52-0000000501	Flood-proof sewage treatment plants in flood hazard/low-lying areas								
06-52-0000000502	Installing flood level signs for bridges and overpasses.								
06-52-0000000503	West Texas Avenue Drainage Improvements								
06-52-0000000504	South Main & Republic Drainage Improvements Phase I								

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type
06-52-0000000505	South Main & Republic Drainage Improvements Phase II	South Main & Republic Drainage Improvements Phase II: Enhance neighborhood drainage with new storm sewers and detention pond. Rebuild streets, driveways, sidewalks, and upgrade water and sewer systems to improve infrastructure and reduce flooding.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Chambers, Harris	06-02-0401040705, 06-02-0401040706 06-02-0402030105, 06-02-0402030106 06-02-0402030200	Storm Drain
06-52-0000000506	Danubina Area Drainage System Improvements	Danubina Area Drainage Improvements: Install storm sewers and detention pond to improve drainage. Phase I funded by Harris County Flood Control grant. Phase II improves areas south of Phase I trunkline; Phase III improves areas north of it.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Chambers, Harris	06-02-0401040705, 06-02-0401040706 06-02-0402030105, 06-02-0402030106 06-02-0402030200	Storm Drain
06-52-0000000507	West Baytown Drainage Improvements	West Baytown Drainage Improvements: Enhance drainage with new storm sewers and detention pond. Phase I, a $7.1M grant with Harris County Pct 2, funds the main trunkline. Phase II installs lateral lines into neighborhood streets to complete the system.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Chambers, Harris	06-02-0401040705, 06-02-0401040706 06-02-0402030105, 06-02-0402030106 06-02-0402030200	Storm Drain
06-52-0000000508	San Jacinto Regional Detention Drainage	San Jacinto Regional Detention Drainage: Construction regional detention ponds to allow for the development according to the San Jacinto Overlay District	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Chambers, Harris	06-02-0401040705, 06-02-0401040706 06-02-0402030105, 06-02-0402030106 06-02-0402030200	Detention Pond
06-52-0000000509	City of Baytown Stormwater Retention Pond Development	Create 75 Stormwater Retention Ponds to increase storage capacity as identified in Master Drainage Plan	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Chambers, Harris	06-02-0401040705, 06-02-0401040706 06-02-0402030105, 06-02-0402030106 06-02-0402030200	Infrastructure
06-52-0000000510	Harris County Flood Barrier System	Install flood barrier systems, such as flood panels, gates and passive systems, to increase flood protection and minimize damage for critical care facilities	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Galveston, Chambers, Harris, Liberty, Brazoria, Fort Bend, Waller, Montgomery		Floodproofing
06-52-0000000511	Briscoe Canal Flume Extension over Lower Oyster Creek	Extend Briscoe Canal Flume over Lower Oyster Creek	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris, Fort Bend	06-02-0401040401, 06-02-0401040501 06-02-0402040400	Infrastructure

Table 13 Identified Potentially Feasible Flood Mitigation Projects

								Flood Risk			
FMP ID	FMP Name	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk
06-52-0000000505	South Main & Republic Drainage Improvements Phase II	38.05	Urban or Local	City of Baytown	City of Baytown		2000000				
06-52-0000000506	Danubina Area Drainage System Improvements	38.05	Riverine, Urban or Local	City of Baytown	City of Baytown		63000000				
06-52-0000000507	West Baytown Drainage Improvements	38.05	Riverine, Urban or Local	City of Baytown	City of Baytown		17500000				
06-52-0000000508	San Jacinto Regional Detention Drainage	38.05	Riverine, Urban or Local	City of Baytown	City of Baytown		7500000				
06-52-0000000509	City of Baytown Stormwater Retention Pond Development	38.05	Riverine	City of Baytown	City of Baytown		10000000				
06-52-0000000510	Harris County Flood Barrier System	1742.03	Urban or Local	Harris County	Harris County						
06-52-0000000511	Briscoe Canal Flume Extension over Lower Oyster Creek	30.29	Riverine	Harris County	Harris County						

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Flood Risk							Reduction in Flood Risk		
FMP ID	FMP Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk
06-52-0000000505	South Main & Republic Drainage Improvements Phase II										
06-52-0000000506	Danubina Area Drainage System Improvements										
06-52-0000000507	West Baytown Drainage Improvements										
06-52-0000000508	San Jacinto Regional Detention Drainage										
06-52-0000000509	City of Baytown Stormwater Retention Pond Development										
06-52-0000000510	Harris County Flood Barrier System										
06-52-0000000511	Briscoe Canal Flume Extension over Lower Oyster Creek										

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Reduction in Flood Risk									
FMP ID	FMP Name	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-52-0000000505	South Main & Republic Drainage Improvements Phase II										
06-52-0000000506	Danubina Area Drainage System Improvements										
06-52-0000000507	West Baytown Drainage Improvements										
06-52-0000000508	San Jacinto Regional Detention Drainage										
06-52-0000000509	City of Baytown Stormwater Retention Pond Development										
06-52-0000000510	Harris County Flood Barrier System										
06-52-0000000511	Briscoe Canal Flume Extension over Lower Oyster Creek										

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Pre-Project Level-of-Service	Post-Project Level-of-Service	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
06-52-0000000505	South Main & Republic Drainage Improvements Phase II								
06-52-0000000506	Danubina Area Drainage System Improvements								
06-52-0000000507	West Baytown Drainage Improvements								
06-52-0000000508	San Jacinto Regional Detention Drainage								
06-52-0000000509	City of Baytown Stormwater Retention Pond Development								
06-52-0000000510	Harris County Flood Barrier System								
06-52-0000000511	Briscoe Canal Flume Extension over Lower Oyster Creek								

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type
06-52-0000000512	Second Street, Elmar and Meyer and Pine Gully Culvert Replacements in Harris County	Replace the three existing water flow culverts with bridges, Second Street, Elmar and Meyer and Pine Gully	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Galveston, Chambers, Harris	06-02-0402040100	Infrastructure
06-52-0000000513	Harris County Briar Branch Bypass Project	Briar Branch Bypass project and contrast a detention pond to mitigate flood-related impacts	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040303	Infrastructure
06-52-0000000514	Harris County Briar Branch and Spring Branch Bank Re-stabilization	Bank re-stabilization with slope stabilization along portions of Briar Branch and Spring Branch to improve/increase flow and minimize flood damage.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040303	Infrastructure
06-52-0000000515	Spring Valley Village Bridge Replacement	Replace bridges in Spring Valley Village with improved hardened bridges to withstand Flood and debris	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris	06-02-0401040303	Floodproofing
06-52-0000000516	Retention Pond South Of Clear Creek	Acquire land and build a retention pond south of Clear Creek in Twin Woods Creek Neighborhood. The City of Pearland reported that escalating home prices have slowed acquisitions.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Harris, Brazoria	06-02-0402040100	Infrastructure
06-52-0000000517	Hickory Slough (Cullen Boulevard To Garden Road) Channel Improvements	Channel improvements from Roy Rd to Garden Rd will contain 100-year inundation and eliminate flooding for 10- and 100-year events. Land near Roy Rd and Hickory Slough was acquired for drainage upgrades planned later this year.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Galveston, Harris, Brazoria, Fort Bend	06-02-0402040200, 06-02-0402040400 06-02-0402040100	Infrastructure
06-52-0000000518	West Chocolate Bayou (Cold River Ranch Ditch Upstream Of Hwy 6) Channel Improvements	Trapezoidal channel improvements from Rio Lindo St to SH 6 and stormwater detention will reduce inundation and eliminate flooding for structures affected by 10- and 100-year events under Alt 1 (100-year LOS). Additional easement has been acquired.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Galveston, Harris, Brazoria, Fort Bend	06-02-0402040200, 06-02-0402040400 06-02-0402040100	Infrastructure

Table 13 Identified Potentially Feasible Flood Mitigation Projects

								Flood Risk			
FMP ID	FMP Name	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk
06-52-0000000512	Second Street, Elmar and Meyer and Pine Gully Culvert Replacements in Harris County	21.19	Urban or Local	Harris County	Harris County						
06-52-0000000513	Harris County Briar Branch Bypass Project	1.21	Riverine, Urban or Local	Harris County	Harris County						
06-52-0000000514	Harris County Briar Branch and Spring Branch Bank Re-stabilization	1.21	Riverine, Urban or Local	Harris County	Harris County						
06-52-0000000515	Spring Valley Village Bridge Replacement	1.21	Urban or Local	Harris County	Harris County						
06-52-0000000516	Retention Pond South Of Clear Creek	1.96	Riverine	Brazoria Drainage District 4	Brazoria Drainage District 4		8500000				
06-52-0000000517	Hickory Slough (Cullen Boulevard To Garden Road) Channel Improvements	86.23	Urban or Local	Brazoria Drainage District 4	Brazoria Drainage District 4		43200000				
06-52-0000000518	West Chocolate Bayou (Cold River Ranch Ditch Upstream Of Hwy 6) Channel Improvements	86.24	Urban or Local	Brazoria Drainage District 4	Brazoria Drainage District 4		21000000				

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Flood Risk							Reduction in Flood Risk		
FMP ID	FMP Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk
06-52-0000000512	Second Street, Elmar and Meyer and Pine Gully Culvert Replacements in Harris County										
06-52-0000000513	Harris County Briar Branch Bypass Project										
06-52-0000000514	Harris County Briar Branch and Spring Branch Bank Re-stabilization										
06-52-0000000515	Spring Valley Village Bridge Replacement										
06-52-0000000516	Retention Pond South Of Clear Creek										
06-52-0000000517	Hickory Slough (Cullen Boulevard To Garden Road) Channel Improvements										
06-52-0000000518	West Chocolate Bayou (Cold River Ranch Ditch Upstream Of Hwy 6) Channel Improvements										

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Reduction in Flood Risk									
FMP ID	FMP Name	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-52-0000000512	Second Street, Elmar and Meyer and Pine Gully Culvert Replacements in Harris County										
06-52-0000000513	Harris County Briar Branch Bypass Project										
06-52-0000000514	Harris County Briar Branch and Spring Branch Bank Re-stabilization										
06-52-0000000515	Spring Valley Village Bridge Replacement										
06-52-0000000516	Retention Pond South Of Clear Creek										
06-52-0000000517	Hickory Slough (Cullen Boulevard To Garden Road) Channel Improvements										
06-52-0000000518	West Chocolate Bayou (Cold River Ranch Ditch Upstream Of Hwy 6) Channel Improvements										

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Pre-Project Level-of-Service	Post-Project Level-of-Service	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
06-52-0000000512	Second Street, Elmar and Meyer and Pine Gully Culvert Replacements in Harris County								
06-52-0000000513	Harris County Briar Branch Bypass Project								
06-52-0000000514	Harris County Briar Branch and Spring Branch Bank Re-stabilization								
06-52-0000000515	Spring Valley Village Bridge Replacement								
06-52-0000000516	Retention Pond South Of Clear Creek								
06-52-0000000517	Hickory Slough (Cullen Boulevard To Garden Road) Channel Improvements								
06-52-0000000518	West Chocolate Bayou (Cold River Ranch Ditch Upstream Of Hwy 6) Channel Improvements								

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type
06-52-0000000519	Mary's Creek (Confluence With B129 01-00 To Mclean Road) Channel Improvements	Trapezoidal channel improvements from B129-01-00 to McLean Rd and detention under Alt 2 (25-year LOS) will reduce flooding, removing inundation from 249 of 251 structures (100-year) and 2 (10-year). Improvements from FM 1128 to Magnolia Pkwy are complete	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Galveston, Harris, Brazoria, Fort Bend	06-02-0402040200, 06-02-0402040400 06-02-0402040100	Infrastructure
06-52-0000000520	Cannan Ditch (Pearland Site Road To Amoco Industrial Street) Channel Improvements	Trapezoidal channel improvements from Cannon Ditch/C101-12-03 to the railroad near Amoco Industrial St, along with detention, will contain 100-year inundation and eliminate flooding for all structures during both 10- and 100-year storm events.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Galveston, Harris, Brazoria, Fort Bend	06-02-0402040200, 06-02-0402040400 06-02-0402040100	Infrastructure
06-52-0000000521	Mustang Bayou (Cr 521 To Airline Road) Channel Improvements	Trapezoidal channel improvements from Almeda Rd to Airline Rd and detention under Alt 2 (25-year) will reduce flooding, removing inundation from 278 of 393 structures (100-year) and 144 (10-year). Easement acquired; sand pits may become detention ponds.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Galveston, Harris, Brazoria, Fort Bend	06-02-0402040200, 06-02-0402040400 06-02-0402040100	Infrastructure
06-52-0000000522	West Chocolate Bayou - Cr 383 Ditch Channel Improvements	Trapezoidal channel improvements from E101-02-00 to West Fork of Chocolate Bayou and detention under Alt 2 (5-year LOS) will reduce flooding, removing inundation from 93 of 94 structures (100-year) and 91 (10-year) currently estimated to be inundated.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Galveston, Harris, Brazoria, Fort Bend	06-02-0402040200, 06-02-0402040400 06-02-0402040100	Infrastructure
06-52-0000000523	Hickory Slough (Garden Road To Sh 35) Channel Improvements	Channel improvements from Garden Rd to SH 35 and mitigation will reduce flooding, removing inundation from 68 of 79 structures (100yr) and 22 (10yr). A 46-acre detention pond at Hatfield Rd was completed to support future FEMA FMA grant-funded projects	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Galveston, Harris, Brazoria, Fort Bend	06-02-0402040200, 06-02-0402040400 06-02-0402040100	Infrastructure
06-52-0000000524	Hickory Slough (Cr 94 To Cullen Boulevard) Channel Improvements	Trapezoidal channel improvements from CR 94 to H126-00-00 and detention under Alt 1 (100-year LOS) will reduce flooding and remove inundation from all structures affected by 10- and 100-year events. Significant improvements completed near Sunrise Lakes.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Galveston, Harris, Brazoria, Fort Bend	06-02-0402040200, 06-02-0402040400 06-02-0402040100	Infrastructure

Table 13 Identified Potentially Feasible Flood Mitigation Projects

								Flood Risk			
FMP ID	FMP Name	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk
06-52-0000000519	Mary's Creek (Confluence With B129 01-00 To Mclean Road) Channel Improvements	86.23	Urban or Local	Brazoria Drainage District 4	Brazoria Drainage District 4		31400000				
06-52-0000000520	Cannan Ditch (Pearland Site Road To Amoco Industrial Street) Channel Improvements	86.23	Urban or Local	Brazoria Drainage District 4	Brazoria Drainage District 4		21603000				
06-52-0000000521	Mustang Bayou (Cr 521 To Airline Road) Channel Improvements	86.23	Urban or Local	Brazoria Drainage District 4	Brazoria Drainage District 4		121000000				
06-52-0000000522	West Chocolate Bayou - Cr 383 Ditch Channel Improvements	86.23	Urban or Local	Brazoria Drainage District 4	Brazoria Drainage District 4		50000000				
06-52-0000000523	Hickory Slough (Garden Road To Sh 35) Channel Improvements	86.23	Urban or Local	Brazoria Drainage District 4	Brazoria Drainage District 4		29300000				
06-52-0000000524	Hickory Slough (Cr 94 To Cullen Boulevard) Channel Improvements	86.23	Urban or Local	Brazoria Drainage District 4	Brazoria Drainage District 4		103000000				

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Flood Risk							Reduction in Flood Risk		
FMP ID	FMP Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk
06-52-0000000519	Mary's Creek (Confluence With B129 01-00 To Mclean Road) Channel Improvements										
06-52-0000000520	Cannan Ditch (Pearland Site Road To Amoco Industrial Street) Channel Improvements										
06-52-0000000521	Mustang Bayou (Cr 521 To Airline Road) Channel Improvements										
06-52-0000000522	West Chocolate Bayou - Cr 383 Ditch Channel Improvements										
06-52-0000000523	Hickory Slough (Garden Road To Sh 35) Channel Improvements										
06-52-0000000524	Hickory Slough (Cr 94 To Cullen Boulevard) Channel Improvements										

Table 13 Identified Potentially Feasible Flood Mitigation Projects

		Reduction in Flood Risk									
FMP ID	FMP Name	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-52-0000000519	Mary's Creek (Confluence With B129 01-00 To Mclean Road) Channel Improvements										
06-52-0000000520	Cannan Ditch (Pearland Site Road To Amoco Industrial Street) Channel Improvements										
06-52-0000000521	Mustang Bayou (Cr 521 To Airline Road) Channel Improvements										
06-52-0000000522	West Chocolate Bayou - Cr 383 Ditch Channel Improvements										
06-52-0000000523	Hickory Slough (Garden Road To Sh 35) Channel Improvements										
06-52-0000000524	Hickory Slough (Cr 94 To Cullen Boulevard) Channel Improvements										

Table 13 Identified Potentially Feasible Flood Mitigation Projects

FMP ID	FMP Name	Pre-Project Level-of-Service	Post-Project Level-of-Service	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
06-52-0000000519	Mary's Creek (Confluence With B129 01-00 To Mclean Road) Channel Improvements								
06-52-0000000520	Cannan Ditch (Pearland Site Road To Amoco Industrial Street) Channel Improvements								
06-52-0000000521	Mustang Bayou (Cr 521 To Airline Road) Channel Improvements								
06-52-0000000522	West Chocolate Bayou - Cr 383 Ditch Channel Improvements								
06-52-0000000523	Hickory Slough (Garden Road To Sh 35) Channel Improvements								
06-52-0000000524	Hickory Slough (Cr 94 To Cullen Boulevard) Channel Improvements								

Appendix 4-C – Exhibit C – Table 14: Identified Potentially Feasible FMSs

Table 14 Identified Potentially Feasible Flood Management Strategies

FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name
06-53-0000000001	City of Bellaire Roadway and Drainage Improvements	Perform engineering services in support of the local drainage asset management planning, to repair or reconstruct antiquated local drainage and associated road infrastructure. Including design of storm sewers, roadways, and overland storage/conveyance.	06-20-0000000001, 06-20-0000000015	Harris	06-02-0401040402, 06-02-0401040401 06-02-0401040402, 06-02-0401040401
06-53-0000000002	City of Bellaire Non-Structural Flood Risk Reduction Strategies	Conduct planning and outreach efforts to identify residents interested in buy-out, home elevation, or flood proofing programs, and develop plans or grant applications to support interested parties.	06-20-0000000001, 06-20-0000000015	Harris	06-02-0401040402, 06-02-0401040401 06-02-0401040402, 06-02-0401040401
06-53-0000000003	City of Bellaire Drainage Requirements and Flood Damage Prevention Ordinance	Develop updates to Bellaire's residential and non-residential drainage requirements and the City's flood damage prevention ordinance, in alignment with Bellaire's broader flood risk management goals and objectives.	06-20-0000000001, 06-20-0000000015	Harris	06-02-0401040402, 06-02-0401040401 06-02-0401040402, 06-02-0401040401
06-53-0000000004	City of Bellaire Surrounding Area Drainage Improvements	Partner with surrounding municipalities/governmental agencies to identify drainage improvements (conveyance or detention) which could minimize extreme event sheet flow entering into Bellaire.	06-20-0000000001, 06-20-0000000015	Harris	06-02-0401040402, 06-02-0401040401 06-02-0401040402, 06-02-0401040401
06-53-0000000005	City of Bellaire Floodwater Public Awareness Initiatives	Periodically distribute messages to residents warning of dangers of walking or playing in floodwaters. Develop a plan with local schools to educate children to avoid walking, playing, or riding bicycles in floodwaters.	06-20-0000000001, 06-20-0000000005 06-20-0000000006, 06-20-0000000010 06-20-0000000015	Harris	06-02-0401040402, 06-02-0401040401 06-02-0401040402, 06-02-0401040401
06-53-0000000006	City of Bunker Hill Community Outreach	Community Outreach (flooded street identification, marking and signage)	06-20-0000000001, 06-20-0000000005 06-20-0000000006, 06-20-0000000010 06-20-0000000015	Harris	06-02-0401040303, 06-02-0401040303
06-53-0000000007	City of Bunker Hill Dam/Levee Maintenance and Monitoring Plan	Minimize the risk of dam/levee failure and related damage to existing and proposed structures by monitoring the maintenance and inspection schedules.	06-20-0000000001, 06-20-0000000015	Harris	06-02-0401040303, 06-02-0401040303
06-53-0000000008	Harris County Hazard Mitigation Action AW-3	Utilizing the existing public outreach capability to develop, deploy, and disseminate targeted outreach projects promoting risk communication, mitigation and resilience to all the hazards of concern.	06-20-0000000001, 06-20-0000000005 06-20-0000000006, 06-20-0000000010 06-20-0000000015	Harris	
06-53-0000000009	Harris County Hazard Mitigation Action AW-4	Strive to capture time-sensitive data such as high-water marks, extent and location of hazard, and loss information to support future updates to risk assessments as well as other plans and programs that utilize hazard extent data.	06-20-0000000001, 06-20-0000000010 06-20-0000000015	Harris	
06-53-0000000010	Harris County Hazard Mitigation Action AW-5	Continue to develop, improve, and implement an enhanced mass public warning and alert system within the Harris County Joint Information Center to provide warning capability throughout Harris County to support the emergency management of all hazards.	06-20-0000000001, 06-20-0000000010 06-20-0000000015	Harris	
06-53-0000000011	Harris County Hazard Mitigation Action AW-6	Utilize viable and relevant information, data and tools (Hazus models) developed as part of the update to the risk assessment of this plan update to support training and exercise of the County's preparedness, response and recovery programs.	06-20-0000000001, 06-20-0000000010 06-20-0000000015	Harris	
06-53-0000000012	City of Alvin CRS Application	Apply and once accepted maintain and/or improve CRS status. Cost is time, data and preparation of a CRS application. Benefit, if approved homeowner with flood insurance could receive a discount based on the City's CRS score.	06-20-0000000001, 06-20-0000000015	Brazoria	06-02-0402040200, 06-02-0402040400 06-02-0402040100
06-53-0000000013	Brazoria County Increased Cost of Compliance Education	Implement campaign on public education of ICC (Increased Cost of Compliance) coverage.	06-20-0000000001, 06-20-0000000005 06-20-0000000006, 06-20-0000000010 06-20-0000000015	Brazoria	06-02-0402040300, 06-02-0402040200 06-02-0402040400, 06-02-0402040100
06-53-0000000014	City of Galveston NFIP CRS Rating	Maintain membership of the NFIP's CRS	06-20-0000000001, 06-20-0000000015	Galveston	06-02-0402040300, 06-02-0402040200 06-02-0402040400, 06-02-0402040500
06-53-0000000015	Develop Applicable Plans and Studies to Address Hazard Mitigation in Galveston County	Review planning needs annually to include, but not be limited to, CEMP, debris management, stormwater management, master plan, drainage, drought, GIS mapping, complete study to locate areas prone to expansive soils and land subsidence, etc.	06-20-0000000001, 06-20-0000000007 06-20-0000000015	Galveston	06-02-0402040300, 06-02-0402040200 06-02-0402040400, 06-02-0402040100

Table 14 Identified Potentially Feasible Flood Management Strategies

FMS ID	FMS Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost ($)	Non-recurring, Non-capital Cost ($)
06-53-0000000001	City of Bellaire Roadway and Drainage Improvements	Other	3.58	Urban or Local	City of Bellaire	Harris, Bellaire, Harris County Flood Control District	N	3000000	150000
06-53-0000000002	City of Bellaire Non-Structural Flood Risk Reduction Strategies	Other	3.58	Urban or Local	City of Bellaire	Harris, Bellaire	N	50000	2500
06-53-0000000003	City of Bellaire Drainage Requirements and Flood Damage Prevention Ordinance	Other	3.58	Urban or Local	City of Bellaire	Harris, Harris County Flood Control District, Bellaire	N	50000	2500
06-53-0000000004	City of Bellaire Surrounding Area Drainage Improvements	Other	3.58	Urban or Local	City of Bellaire	Harris, Harris County Flood Control District, Bellaire	N	100000	5000
06-53-0000000005	City of Bellaire Floodwater Public Awareness Initiatives	Education and Outreach	3.58	Urban or Local	City of Bellaire	Bellaire	N	50000	2500
06-53-0000000006	City of Bunker Hill Community Outreach	Education and Outreach	1.44	Urban or Local	City of Bunker Hill Village	Harris, Harris County Flood Control District, Bunker Hill Village	N	100000	5000
06-53-0000000007	City of Bunker Hill Dam/Levee Maintenance and Monitoring Plan	Other	1.44	Riverine, Urban or Local	City of Bunker Hill Village	Harris, Harris County Flood Control District, Houston, Bunker Hill Village	N	500000	25000
06-53-0000000008	Harris County Hazard Mitigation Action AW-3	Education and Outreach	1770.82	Riverine, Urban or Local	Harris County	Harris	N	100000	5000
06-53-0000000009	Harris County Hazard Mitigation Action AW-4	Flood Measurement and Warning	1770.82	Riverine, Urban or Local	Harris County	Harris	N	300000	15000
06-53-0000000010	Harris County Hazard Mitigation Action AW-5	Flood Measurement and Warning	1770.82	Riverine, Urban or Local	Harris County	Harris	N	100000	5000
06-53-0000000011	Harris County Hazard Mitigation Action AW-6	Flood Measurement and Warning	1770.82	Riverine, Urban or Local	Harris County	Harris	N	500000	25000
06-53-0000000012	City of Alvin CRS Application	Other	15.74	Riverine, Urban or Local	City of Alvin	Brazoria, Alvin	N	25000	1250
06-53-0000000013	Brazoria County Increased Cost of Compliance Education	Education and Outreach	1481.63	Riverine, Coastal, Urban or Local	Brazoria County	Brazoria	N	20000	1000
06-53-0000000014	City of Galveston NFIP CRS Rating	Other	53.42	Riverine, Coastal, Urban or Local	City of Galveston	Galveston	N	10000	500
06-53-0000000015	Develop Applicable Plans and Studies to Address Hazard Mitigation in Galveston County	Regulatory and Guidance	665.15	Riverine, Coastal, Urban or Local	Galveston County	Galveston	N	100000	5000

Table 14 Identified Potentially Feasible Flood Management Strategies

		Flood Risk										
FMS ID	FMS Name	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)
06-53-0000000001	City of Bellaire Roadway and Drainage Improvements	2.95886993	0.53965998	5879	5539	25741	71.00		0	71	$0	0.15173601
06-53-0000000002	City of Bellaire Non-Structural Flood Risk Reduction Strategies	2.95886993	0.53965998	5879	5539	25741	71.00		0	71	$0	0.15173601
06-53-0000000003	City of Bellaire Drainage Requirements and Flood Damage Prevention Ordinance	2.95886993	0.53965998	5879	5539	25741	71.00		0	71	$0	0.15173601
06-53-0000000004	City of Bellaire Surrounding Area Drainage Improvements	2.95886993	0.53965998	5879	5539	25741	71.00		0	71	$0	0.15173601
06-53-0000000005	City of Bellaire Floodwater Public Awareness Initiatives	2.95886993	0.53965998	5879	5539	25741	71.00		0	71	$0	0.15173601
06-53-0000000006	City of Bunker Hill Community Outreach	0	0.001002	0	0	0	0.00		0	0	$0	0
06-53-0000000007	City of Bunker Hill Dam/Levee Maintenance and Monitoring Plan	0	0.001002	0	0	0	0.00		0	0	$0	0
06-53-0000000008	Harris County Hazard Mitigation Action AW-3	444.5074768	200.0857544	143642	120807	590954	2332.00		89	2408	$89	5993.469238
06-53-0000000009	Harris County Hazard Mitigation Action AW-4	444.5074768	200.0857544	143642	120807	590954	2332.00		89	2408	$89	5993.469238
06-53-0000000010	Harris County Hazard Mitigation Action AW-5	444.5074768	200.0857544	143642	120807	590954	2332.00		89	2408	$89	5993.469238
06-53-0000000011	Harris County Hazard Mitigation Action AW-6	444.5074768	200.0857544	143642	120807	590954	2332.00		89	2408	$89	5993.469238
06-53-0000000012	City of Alvin CRS Application	7.5340519	0.63395202	3428	2588	15209	18.00		0	52	$0	176.1335449
06-53-0000000013	Brazoria County Increased Cost of Compliance Education	178.8987122	46.42032623	18845	14341	38623	248.00		0	328	$0	8576.763672
06-53-0000000014	City of Galveston NFIP CRS Rating	49.32813263	2.26121497	23123	20373	64429	513.00		0	408	$0	262.8006897
06-53-0000000015	Develop Applicable Plans and Studies to Address Hazard Mitigation in Galveston County	307.8448486	87.00809479	48566	42184	102742	680.00		30	910	$30	3412.4375

Table 14 Identified Potentially Feasible Flood Management Strategies

		Reduction in Flood Risk											
FMS ID	FMS Name	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)[A]	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-53-0000000001	City of Bellaire Roadway and Drainage Improvements	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000002	City of Bellaire Non-Structural Flood Risk Reduction Strategies	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000003	City of Bellaire Drainage Requirements and Flood Damage Prevention Ordinance	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000004	City of Bellaire Surrounding Area Drainage Improvements	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000005	City of Bellaire Floodwater Public Awareness Initiatives	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000006	City of Bunker Hill Community Outreach	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000007	City of Bunker Hill Dam/Levee Maintenance and Monitoring Plan	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000008	Harris County Hazard Mitigation Action AW-3	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000009	Harris County Hazard Mitigation Action AW-4	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000010	Harris County Hazard Mitigation Action AW-5	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000011	Harris County Hazard Mitigation Action AW-6	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000012	City of Alvin CRS Application	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000013	Brazoria County Increased Cost of Compliance Education	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000014	City of Galveston NFIP CRS Rating	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000015	Develop Applicable Plans and Studies to Address Hazard Mitigation in Galveston County	0	0	0	0	0	0	0.00	0	0	0	$0	0

Table 14 Identified Potentially Feasible Flood Management Strategies

FMS ID	FMS Name	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
06-53-0000000001	City of Bellaire Roadway and Drainage Improvements	0	N	N	N	N
06-53-0000000002	City of Bellaire Non-Structural Flood Risk Reduction Strategies	0	N	N	N	N
06-53-0000000003	City of Bellaire Drainage Requirements and Flood Damage Prevention Ordinance	0	N	N	N	N
06-53-0000000004	City of Bellaire Surrounding Area Drainage Improvements	0	N	N	N	N
06-53-0000000005	City of Bellaire Floodwater Public Awareness Initiatives	0	N	N	N	N
06-53-0000000006	City of Bunker Hill Community Outreach	0	N	N	N	N
06-53-0000000007	City of Bunker Hill Dam/Levee Maintenance and Monitoring Plan	0	N	N	N	N
06-53-0000000008	Harris County Hazard Mitigation Action AW-3	0	N	N	N	N
06-53-0000000009	Harris County Hazard Mitigation Action AW-4	0	N	N	N	N
06-53-0000000010	Harris County Hazard Mitigation Action AW-5	0	N	N	N	N
06-53-0000000011	Harris County Hazard Mitigation Action AW-6	0	N	N	N	N
06-53-0000000012	City of Alvin CRS Application	0	N	N	N	N
06-53-0000000013	Brazoria County Increased Cost of Compliance Education	0	N	N	N	N
06-53-0000000014	City of Galveston NFIP CRS Rating	0	N	N	N	N
06-53-0000000015	Develop Applicable Plans and Studies to Address Hazard Mitigation in Galveston County	0	N	N	N	N

Table 14 Identified Potentially Feasible Flood Management Strategies

FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name
06-53-0000000016	Waller County Elevation Certificate Requirement	Require and maintain FEMA elevation certificates for all new/improved building in the special flood hazard area (SFHA).	06-20-0000000001, 06-20-0000000007 06-20-0000000010, 06-20-0000000015	Waller	06-02-0401010104, 06-02-0401010101 06-02-0401010103, 06-02-0401010201 06-02-0401010202, 06-02-0401010203 06-02-0401010204, 06-02-0401030101 06-02-0401030106, 06-02-0401030303 06-02-0401030305, 06-02-0401030301 06-02-0401030302
06-53-0000000017	Develop Program to Optimize Operation of the Flood Gates at Second Cut Outlet in City of Kemah	Develop program to integrate with the Harris County Flood Control District for the purpose of optimizing the operation of the flood gates at second cut outlet.	06-20-0000000001, 06-20-0000000007 06-20-0000000010, 06-20-0000000015	Galveston	06-02-0402040200, 06-02-0402040100
06-53-0000000018	Galveston County-wide Education and Outreach	Provide educational information related to preparedness, mitigation, response, and recovery to the public.	06-20-0000000001, 06-20-0000000005 06-20-0000000006, 06-20-0000000010 06-20-0000000015	Galveston, Harris	06-02-0402040300, 06-02-0402040200 06-02-0402040400, 06-02-0402040100
06-53-0000000019	Public Information and Awareness in City of New Waverly	Rewrite, improve, and implement new local floodplain regulations, to include a public information campaign on regulatory awareness.	06-20-0000000001, 06-20-0000000005 06-20-0000000006, 06-20-0000000010 06-20-0000000015	Walker	06-02-0401030101
06-53-0000000020	Promotion of Flood Insurance in City of Arcola	Promote the purchase of flood insurance. Advertise the availability, cost, and coverage of flood insurance through the NFIP.	06-20-0000000001, 06-20-0000000005 06-20-0000000006, 06-20-0000000010 06-20-0000000015	Fort Bend	06-02-0402040400
06-53-0000000021	City of Todd Mission Public Outreach & Education	Provide educational information related to preparedness, mitigation, response, and recovery to the public.	06-20-0000000001, 06-20-0000000005 06-20-0000000006, 06-20-0000000010 06-20-0000000015	Grimes	06-02-0401020203, 06-02-0401020206
06-53-0000000022	Increase Public Awareness of Hazards in City of Arcola	Increase public awareness of hazards and hazardous areas. Distribute public awareness information regarding flood hazards.	06-20-0000000001, 06-20-0000000005 06-20-0000000006, 06-20-0000000010 06-20-0000000015	Fort Bend	06-02-0402040400
06-53-0000000023	Expand Development of Emergency Notification System in Liberty County	Expand development of emergency notification system/work to establish public awareness of emergency notification process.	06-20-0000000001, 06-20-0000000005 06-20-0000000006, 06-20-0000000010 06-20-0000000015	Liberty	06-02-0401030201, 06-02-0401030108 06-02-0401030109, 06-02-0401030205 06-02-0401030402, 06-02-0401030203 06-02-0401030204, 06-02-0401030202 06-02-0401030401, 06-02-0402030104 06-02-0402030103, 06-02-0402030102 06-02-0402030101
06-53-0000000025	Galveston County Stormproof/Retrofit Infrastructure	Stormproof/retrofit critical facilities and infrastructure for county-owned properties and unincorporated areas.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000015	Galveston	06-02-0402040300, 06-02-0402040200 06-02-0402040400, 06-02-0402040100
06-53-0000000026	Implement Stormwater Management Plan in City of Bayou Vista	Implement stormwater management plan to improve drainage during flood and other weather events.	06-20-0000000001, 06-20-0000000007 06-20-0000000015	Galveston	06-02-0402040200
06-53-0000000027	Walker County Public Information and Awareness	Purchase high water (flood) indicators for low water river crossing for county roads.	06-20-0000000001, 06-20-0000000010 06-20-0000000015	Walker	06-02-0401010104, 06-02-0401010101 06-02-0401010102, 06-02-0401010103 06-02-0401010201, 06-02-0401010202 06-02-0401010203, 06-02-0401010204 06-02-0401030101, 06-02-0401030106 06-02-0401030303, 06-02-0401030305 06-02-0401030301, 06-02-0401030302
06-53-0000000028	City of Bayou Vista Severe Weather Warning Systems	Purchase and install severe weather warning systems	06-20-0000000001, 06-20-0000000010 06-20-0000000015	Galveston	06-02-0402040200
06-53-0000000029	Natural Infrastructure Project Barker Reservoir Headwater Acquisition and Restoration	Purchase and restore agricultural & natural lands at the headwater of Barker Reservoir. Manage land for agricultural use, restore native landscape like grasslands and wetlands, and enhance management practices. Provides natural flood mitigation benefits.	06-20-0000000001, 06-20-0000000013 06-20-0000000014	Waller	06-02-0401020103, 06-02-0401040101
06-53-0000000030	Natural Infrastructure Project Mound Creek Conservation	Purchase conservation easement from landowner to permanently conserve as agricultural/natural areas. KPC to ensure land remains undeveloped agricultural land and maintain conservation. Would provide multiple benefits such as flood mitigation, and more.	06-20-0000000001, 06-20-0000000013 06-20-0000000014	Harris, Waller	06-02-0401020103, 06-02-0401020101

Table 14 Identified Potentially Feasible Flood Management Strategies

FMS ID	FMS Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost ($)	Non-recurring, Non-capital Cost ($)
06-53-0000000016	Waller County Elevation Certificate Requirement	Regulatory and Guidance	797.91	Riverine, Urban or Local	Waller County	Waller, Waller, Hempstead, Brookshire, Brookshire Katy Drainage District, Katy	N	50000	2500
06-53-0000000017	Develop Program to Optimize Operation of the Flood Gates at Second Cut Outlet in City of Kemah	Regulatory and Guidance	1.88	Riverine, Coastal, Urban or Local	City of Kemah	Galveston, Harris County Flood Control District, Kemah	N	100000	5000
06-53-0000000018	Galveston County-wide Education and Outreach	Education and Outreach	664.96	Riverine, Coastal, Urban or Local	Galveston County	Galveston	N	50000	2500
06-53-0000000019	Public Information and Awareness in City of New Waverly	Education and Outreach	2.21	Urban or Local	City of New Waverly	Walker, New Waverly	N	10000	500
06-53-0000000020	Promotion of Flood Insurance in City of Arcola	Education and Outreach	2.60	Riverine, Urban or Local	City of Arcola	Fort Bend, Arcola	N	50000	2500
06-53-0000000021	City of Todd Mission Public Outreach & Education	Education and Outreach	1.95	Riverine, Urban or Local	City of Todd Mission	Todd Mission	N	20000	1000
06-53-0000000022	Increase Public Awareness of Hazards in City of Arcola	Education and Outreach	2.60	Riverine, Urban or Local	City of Arcola	Arcola	N	50000	2500
06-53-0000000023	Expand Development of Emergency Notification System in Liberty County	Education and Outreach	1169.77	Riverine, Urban or Local	Liberty County	Liberty	N	10000	500
06-53-0000000025	Galveston County Stormproof/Retrofit Infrastructure	Infrastructure Projects	665.24	Riverine, Coastal, Urban or Local	Galveston County	Galveston, Galveston	Y	5000000	250000
06-53-0000000026	Implement Stormwater Management Plan in City of Bayou Vista	Regulatory and Guidance	0.44	Riverine, Coastal, Urban or Local	City of Bayou Vista	Bayou Vista	N	25000	1250
06-53-0000000027	Walker County Public Information and Awareness	Flood Measurement and Warning	797.69	Riverine, Urban or Local	Walker County	Walker	N	122720	25000
06-53-0000000028	City of Bayou Vista Severe Weather Warning Systems	Flood Measurement and Warning	0.44	Riverine, Coastal, Urban or Local	City of Bayou Vista	Bayou Vista	N	35000	1750
06-53-0000000029	Natural Infrastructure Project Barker Reservoir Headwater Acquisition and Restoration	Property Acquisition and Structural Elevation	1.76	Riverine, Urban or Local	Coastal Prairie Conservancy	Harris, Waller, Harris County Flood Control District	N	33000000	1650000
06-53-0000000030	Natural Infrastructure Project Mound Creek Conservation	Property Acquisition and Structural Elevation	3.29	Riverine, Urban or Local	Coastal Prairie Conservancy	Harris, Waller, Harris County Flood Control District	N	32000000	1600000

Table 14 Identified Potentially Feasible Flood Management Strategies

		Flood Risk										
FMS ID	FMS Name	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)
06-53-0000000016	Waller County Elevation Certificate Requirement	61.2142334	10.47457409	505	437	545	1.00		2	25	$2	180.4662781
06-53-0000000017	Develop Program to Optimize Operation of the Flood Gates at Second Cut Outlet in City of Kemah	0.64078897	0.95737499	560	425	2792	7.00		0	13	$0	0.59229201
06-53-0000000018	Galveston County-wide Education and Outreach	307.7325134	87.01576233	48564	42182	102735	680.00		30	910	$30	3414.686523
06-53-0000000019	Public Information and Awareness in City of New Waverly	0.28715599	0.081762	23	18	19	0.00		0	0	$0	0.90334499
06-53-0000000020	Promotion of Flood Insurance in City of Arcola	0.076201	0	41	37	39	0.00		0	0	$0	1.22740304
06-53-0000000021	City of Todd Mission Public Outreach & Education	0.313151	0	20	11	16	0.00		0	0	$0	1.28489399
06-53-0000000022	Increase Public Awareness of Hazards in City of Arcola	0.076201	0	41	37	39	0.00		0	0	$0	1.22740304
06-53-0000000023	Expand Development of Emergency Notification System in Liberty County	84.48875427	27.97203255	3617	2271	3575	8.00		7	144	$7	1379.380127
06-53-0000000025	Galveston County Stormproof/Retrofit Infrastructure	307.8470154	87.0432663	48564	42183	102739	680.00		30	909	$30	3415.793701
06-53-0000000026	Implement Stormwater Management Plan in City of Bayou Vista	0.443753	0	1121	1095	1476	3.00		0	8	$0	0
06-53-0000000027	Walker County Public Information and Awareness	61.21207809	10.47210693	505	437	545	1.00		2	25	$2	180.4661102
06-53-0000000028	City of Bayou Vista Severe Weather Warning Systems	0.444756	0	1121	1095	1476	3.00		0	8	$0	0
06-53-0000000029	Natural Infrastructure Project Barker Reservoir Headwater Acquisition and Restoration	0	0	0	0	0	0.00		0	0	$0	0
06-53-0000000030	Natural Infrastructure Project Mound Creek Conservation	1.85406995	0.04638	0	0	0	0.00		0	0	$0	41.38646317

Table 14 Identified Potentially Feasible Flood Management Strategies

		Reduction in Flood Risk											
FMS ID	FMS Name	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)[A]	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-53-0000000016	Waller County Elevation Certificate Requirement	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000017	Develop Program to Optimize Operation of the Flood Gates at Second Cut Outlet in City of Kemah	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000018	Galveston County-wide Education and Outreach	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000019	Public Information and Awareness in City of New Waverly	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000020	Promotion of Flood Insurance in City of Arcola	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000021	City of Todd Mission Public Outreach & Education	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000022	Increase Public Awareness of Hazards in City of Arcola	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000023	Expand Development of Emergency Notification System in Liberty County	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000025	Galveston County Stormproof/Retrofit Infrastructure	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000026	Implement Stormwater Management Plan in City of Bayou Vista	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000027	Walker County Public Information and Awareness	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000028	City of Bayou Vista Severe Weather Warning Systems	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000029	Natural Infrastructure Project Barker Reservoir Headwater Acquisition and Restoration	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000030	Natural Infrastructure Project Mound Creek Conservation	0	0	0	0	0	0	0.00	0	0	0	$0	0

Table 14 Identified Potentially Feasible Flood Management Strategies

FMS ID	FMS Name	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
06-53-0000000016	Waller County Elevation Certificate Requirement	0	N	N	N	N
06-53-0000000017	Develop Program to Optimize Operation of the Flood Gates at Second Cut Outlet in City of Kemah	0	N	N	N	N
06-53-0000000018	Galveston County-wide Education and Outreach	0	N	N	N	N
06-53-0000000019	Public Information and Awareness in City of New Waverly	0	N	N	N	N
06-53-0000000020	Promotion of Flood Insurance in City of Arcola	0	N	N	N	N
06-53-0000000021	City of Todd Mission Public Outreach & Education	0	N	N	N	N
06-53-0000000022	Increase Public Awareness of Hazards in City of Arcola	0	N	N	N	N
06-53-0000000023	Expand Development of Emergency Notification System in Liberty County	0	N	N	N	N
06-53-0000000025	Galveston County Stormproof/Retrofit Infrastructure	0	N	N	N	N
06-53-0000000026	Implement Stormwater Management Plan in City of Bayou Vista	0	N	N	N	N
06-53-0000000027	Walker County Public Information and Awareness	0	N	N	N	N
06-53-0000000028	City of Bayou Vista Severe Weather Warning Systems	0	N	N	N	N
06-53-0000000029	Natural Infrastructure Project Barker Reservoir Headwater Acquisition and Restoration	0	N	N	N	N
06-53-0000000030	Natural Infrastructure Project Mound Creek Conservation	0	N	N	N	N

Table 14 Identified Potentially Feasible Flood Management Strategies

FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name
06-53-0000000031	Brazoria County Structure Elevation	Elevate structures in flood zone. Over 70% of these structures are pre-firm and do not meet current FEMA elevation standards. FEMA estimates that over 400 structures may be substantially damaged and must be elevated to meet current standards.	06-20-0000000001, 06-20-0000000015	Brazoria	06-02-0402040300, 06-02-0402040200 06-02-0402040400, 06-02-0402040100
06-53-0000000032	Brazoria County Non-structural Mitigation / Land Preservation	Up to 35,0000 acres of land could be purchased to help reduce the impacts of natural hazards by converting the space to floodwater storage, groundwater recharge, erosion, drought mitigation, in the form of public green space.	06-20-0000000001, 06-20-0000000015	Brazoria	06-02-0402040300, 06-02-0402040200 06-02-0402040400, 06-02-0402040100
06-53-0000000033	City of Bellaire Flood Rescue Plan	Develop a plan to address rescues from both one-story and two-story homes. This includes evacuating disabled/physically impaired/elderly individuals from homes in advance of anticipated extreme rainfall events.	06-20-0000000001, 06-20-0000000007 06-20-0000000010, 06-20-0000000015	Harris	06-02-0401040402, 06-02-0401040401
06-53-0000000034	Brazoria County Dam and Levee Failure Outreach and Education campaign	Implement an outreach and education campaign to educate the public on mitigation techniques for dam and levee failure to reduce loss of life and property.	06-20-0000000001, 06-20-0000000005 06-20-0000000006, 06-20-0000000010 06-20-0000000015	Brazoria	06-02-0402040300, 06-02-0402040200 06-02-0402040400, 06-02-0402040100
06-53-0000000035	Amending Grimes County Floodplain Ordinance	Prohibit the building of any new structures located down-stream of high hazard dams by amending the floodplain ordinance.	06-20-0000000001, 06-20-0000000007 06-20-0000000015	Grimes	06-02-0401010101, 06-02-0401010301 06-02-0401010302, 06-02-0401010303 06-02-0401010103, 06-02-0401010304 06-02-0401010305, 06-02-0401010306 06-02-0401020202, 06-02-0401020203 06-02-0401020207, 06-02-0401020206
06-53-0000000036	Grimes County Property Acquisition	Per NFIP participation, the acquisition of structures located in the 100-year flood plain and in dam inundation areas.	06-20-0000000001, 06-20-0000000015	Grimes	06-02-0401010101, 06-02-0401010301 06-02-0401010302, 06-02-0401010303 06-02-0401010103, 06-02-0401010304 06-02-0401010305, 06-02-0401010306 06-02-0401020202, 06-02-0401020203 06-02-0401020207, 06-02-0401020206
06-53-0000000037	Property Acquisition Down-Stream of High Hazard Dams in Grimes County	Acquire homes located down-stream of high hazard dams.	06-20-0000000001, 06-20-0000000015	Grimes	06-02-0401010101, 06-02-0401010301 06-02-0401010302, 06-02-0401010303 06-02-0401010103, 06-02-0401010304 06-02-0401010305, 06-02-0401010306 06-02-0401020202, 06-02-0401020203 06-02-0401020207, 06-02-0401020206
06-53-0000000038	Walker County Property Acquisition in Deep River Plantation Subdivision	Acquire flood loss properties and properties prone to flooding in the Deep River Plantation Subdivision.	06-20-0000000001, 06-20-0000000015	Walker	06-02-0401010104, 06-02-0401010101 06-02-0401010102, 06-02-0401010103 06-02-0401010201, 06-02-0401010202 06-02-0401010203, 06-02-0401010204 06-02-0401030101, 06-02-0401030106 06-02-0401030303, 06-02-0401030305 06-02-0401030301, 06-02-0401030302
06-53-0000000039	City of Santa Fe Stormproof/retrofit New Critical Infrastructure	New construction and existing critical facilities and infrastructure should include advanced mitigation techniques.	06-20-0000000001, 06-20-0000000007 06-20-0000000015	Galveston	06-02-0402040300, 06-02-0402040200
06-53-0000000040	Waller County Drainage System Maintenance	Project will clear obstacles, widen and reshape ditches, and upgrade culverts to restore adequate drainage to mitigate flooding in all participating jurisdictions.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000015	Waller	06-02-0401020102, 06-02-0401020103 06-02-0401020204, 06-02-0401020101 06-02-0401020201, 06-02-0401020202 06-02-0401020203, 06-02-0401020205 06-02-0401020207, 06-02-0401020206 06-02-0401040102, 06-02-0401040103 06-02-0401040101, 06-02-0401040203
06-53-0000000041	Waller County Flood Hazard Public Information Campaign	Posting of signage at high profile locations and use of social media to communicate threats/concerns. Flood gauges for common flooded road crossings. Burn ban signs.	06-20-0000000001, 06-20-0000000005 06-20-0000000006, 06-20-0000000010 06-20-0000000015	Waller	06-02-0401020102, 06-02-0401020103 06-02-0401020204, 06-02-0401020101 06-02-0401020201, 06-02-0401020202 06-02-0401020203, 06-02-0401020205 06-02-0401020207, 06-02-0401020206 06-02-0401040102, 06-02-0401040103 06-02-0401040101, 06-02-0401040203

Table 14 Identified Potentially Feasible Flood Management Strategies

FMS ID	FMS Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost ($)	Non-recurring, Non-capital Cost ($)
06-53-0000000031	Brazoria County Structure Elevation	Property Acquisition and Structural Elevation	1481.87	Riverine, Coastal, Urban or Local	Brazoria County	Brazoria, Alvin, Iowa Colony, Pearland	Y	60000000	3000000
06-53-0000000032	Brazoria County Non-structural Mitigation / Land Preservation	Property Acquisition and Structural Elevation	1481.87	Riverine, Coastal, Urban or Local	Brazoria County	Brazoria, Alvin, Iowa Colony, Pearland	Y	65000000	3250000
06-53-0000000033	City of Bellaire Flood Rescue Plan	Regulatory and Guidance	3.58	Riverine, Urban or Local	City of Bellaire	Bellaire	N	200000	10000
06-53-0000000034	Brazoria County Dam and Levee Failure Outreach and Education campaign	Education and Outreach	1481.87	Riverine, Coastal, Urban or Local	Brazoria County	Brazoria, Alvin, Iowa Colony, Pearland	N	20000	1000
06-53-0000000035	Amending Grimes County Floodplain Ordinance	Regulatory and Guidance	798.87	Riverine, Urban or Local	Grimes County	Grimes, Todd Mission	N	20000	1000
06-53-0000000036	Grimes County Property Acquisition	Property Acquisition and Structural Elevation	798.87	Riverine, Urban or Local	Grimes County	Grimes, Todd Mission	Y	95000	9500
06-53-0000000037	Property Acquisition Down-Stream of High Hazard Dams in Grimes County	Property Acquisition and Structural Elevation	798.87	Riverine, Urban or Local	Grimes County	Walker	Y	1000000	100000
06-53-0000000038	Walker County Property Acquisition in Deep River Plantation Subdivision	Property Acquisition and Structural Elevation	797.84	Riverine, Urban or Local	Walker County	Walker	Y	2475000	247500
06-53-0000000039	City of Santa Fe Stormproof/retrofit New Critical Infrastructure	Regulatory and Guidance	17.04	Riverine, Urban or Local	City of Santa Fe	Santa Fe	N	5000000	250000
06-53-0000000040	Waller County Drainage System Maintenance	Infrastructure Projects	515.95	Riverine, Urban or Local	Waller County	Waller, Waller, Hempstead, Brookshire, Brookshire Katy Drainage District, Katy		2500000	125000
06-53-0000000041	Waller County Flood Hazard Public Information Campaign	Education and Outreach	515.95	Riverine, Urban or Local	Waller County	Waller, Waller, Hempstead, Brookshire, Brookshire Katy Drainage District, Katy	N	20000	1000

Table 14 Identified Potentially Feasible Flood Management Strategies

		Flood Risk										
FMS ID	FMS Name	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)
06-53-0000000031	Brazoria County Structure Elevation	179.0649262	46.51158524	18848	14344	38626	248.00		0	328	$0	8584.160156
06-53-0000000032	Brazoria County Non-structural Mitigation / Land Preservation	179.0649262	46.51158524	18848	14344	38626	248.00		0	328	$0	8584.160156
06-53-0000000033	City of Bellaire Flood Rescue Plan	2.95886993	0.53965998	5879	5539	25741	71.00		0	71	$0	0.15173601
06-53-0000000034	Brazoria County Dam and Levee Failure Outreach and Education campaign	179.0649262	46.51158524	18848	14344	38626	248.00		0	328	$0	8584.160156
06-53-0000000035	Amending Grimes County Floodplain Ordinance	24.83566475	3.89348292	145	76	95	0.00		1	11	$1	151.2735138
06-53-0000000036	Grimes County Property Acquisition	24.83566475	3.89348292	145	76	95	0.00		1	11	$1	151.2735138
06-53-0000000037	Property Acquisition Down-Stream of High Hazard Dams in Grimes County	24.83566475	3.89348292	145	76	95	0.00		1	11	$1	151.2735138
06-53-0000000038	Walker County Property Acquisition in Deep River Plantation Subdivision	61.20943451	10.47330761	505	437	545	1.00		2	25	$2	180.4646454
06-53-0000000039	City of Santa Fe Stormproof/retrofit New Critical Infrastructure	0.68123299	2.37156296	400	306	748	1.00		9	4	$9	12.12156868
06-53-0000000040	Waller County Drainage System Maintenance	28.47864914	5.59079981	1067	708	1859	6.00		19	41	$19	1357.317261
06-53-0000000041	Waller County Flood Hazard Public Information Campaign	28.47864914	5.59079981	1067	708	1859	6.00		19	41	$19	1357.317261

Table 14 Identified Potentially Feasible Flood Management Strategies

		Reduction in Flood Risk											
FMS ID	FMS Name	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)[A]	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-53-0000000031	Brazoria County Structure Elevation	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000032	Brazoria County Non-structural Mitigation / Land Preservation	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000033	City of Bellaire Flood Rescue Plan	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000034	Brazoria County Dam and Levee Failure Outreach and Education campaign	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000035	Amending Grimes County Floodplain Ordinance	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000036	Grimes County Property Acquisition	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000037	Property Acquisition Down-Stream of High Hazard Dams in Grimes County	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000038	Walker County Property Acquisition in Deep River Plantation Subdivision	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000039	City of Santa Fe Stormproof/retrofit New Critical Infrastructure	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000040	Waller County Drainage System Maintenance	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000041	Waller County Flood Hazard Public Information Campaign	0	0	0	0	0	0	0.00	0	0	0	$0	0

Table 14 Identified Potentially Feasible Flood Management Strategies

FMS ID	FMS Name	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
06-53-0000000031	Brazoria County Structure Elevation	0	N	N	N	N
06-53-0000000032	Brazoria County Non-structural Mitigation / Land Preservation	0	N	N	N	N
06-53-0000000033	City of Bellaire Flood Rescue Plan	0	N	N	N	N
06-53-0000000034	Brazoria County Dam and Levee Failure Outreach and Education campaign	0	N	N	N	N
06-53-0000000035	Amending Grimes County Floodplain Ordinance	0	N	N	N	N
06-53-0000000036	Grimes County Property Acquisition	0	N	N	N	N
06-53-0000000037	Property Acquisition Down-Stream of High Hazard Dams in Grimes County	0	N	N	N	N
06-53-0000000038	Walker County Property Acquisition in Deep River Plantation Subdivision	0	N	N	N	N
06-53-0000000039	City of Santa Fe Stormproof/retrofit New Critical Infrastructure	0	N	N	N	N
06-53-0000000040	Waller County Drainage System Maintenance	0	N	N	N	N
06-53-0000000041	Waller County Flood Hazard Public Information Campaign	0	N	N	N	N

Table 14 Identified Potentially Feasible Flood Management Strategies

FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name
06-53-0000000042	Waller County Freeboard Requirement Update	The county may increase its freeboard requirement to 24-in from 18-in above the base flood elevation. County may require that all new lots within a platted subdivision be located fully outside of the floodplain. Applicable to all floodplain development.	06-20-0000000001, 06-20-0000000007 06-20-0000000015	Waller	06-02-0401020102, 06-02-0401020103 06-02-0401020204, 06-02-0401020101 06-02-0401020201, 06-02-0401020202 06-02-0401020203, 06-02-0401020205 06-02-0401020207, 06-02-0401020206 06-02-0401040102, 06-02-0401040103 06-02-0401040101, 06-02-0401040203
06-53-0000000043	Install Outdoor Early warning System in Walker County	Install Outdoor Early warning System to provide citizens early warning of an impending disaster, or an event that would affect the life and/or property of the citizens.	06-20-0000000001, 06-20-0000000005 06-20-0000000006, 06-20-0000000010 06-20-0000000015	Walker	06-02-0401010104, 06-02-0401010101 06-02-0401010102, 06-02-0401010103 06-02-0401010201, 06-02-0401010202 06-02-0401010203, 06-02-0401010204 06-02-0401030101, 06-02-0401030106 06-02-0401030303, 06-02-0401030305 06-02-0401030301, 06-02-0401030302
06-53-0000000044	Walker County Public Hazard Information and Awareness Campaign	The county and participating jurisdiction will create and implement an education campaign to educate the public on mitigation techniques for all hazards.	06-20-0000000001, 06-20-0000000005 06-20-0000000006, 06-20-0000000010 06-20-0000000015	Walker	06-02-0401010104, 06-02-0401010101 06-02-0401010102, 06-02-0401010103 06-02-0401010201, 06-02-0401010202 06-02-0401010203, 06-02-0401010204 06-02-0401030101, 06-02-0401030106 06-02-0401030303, 06-02-0401030305 06-02-0401030301, 06-02-0401030302
06-53-0000000045	Retrofit and Harden the Emergency Operations Center Serving Walker County	Retrofit and harden the Emergency Operations Center serving Walker county including city of Huntsville, New Waverly, and Riverside.	06-20-0000000001, 06-20-0000000005 06-20-0000000006, 06-20-0000000010 06-20-0000000015	Walker	06-02-0401010104, 06-02-0401010101 06-02-0401010102, 06-02-0401010103 06-02-0401010201, 06-02-0401010202 06-02-0401010203, 06-02-0401010204 06-02-0401030101, 06-02-0401030106 06-02-0401030303, 06-02-0401030305 06-02-0401030301, 06-02-0401030302
06-53-0000000046	City of Cleveland Drainage Maintenance	Removal of debris, silt and vegetation obstacles in drainageways. Project will clear obstacles, mow and reshape ditches, and upgrade culverts to restore adequate drainage to mitigate flooding.	06-20-0000000001, 06-20-000000003 06-20-0000000004, 06-20-0000000015	Liberty, Montgomery, San Jacinto	06-02-0401030201, 06-02-0401030108 06-02-0401030109, 06-02-0401030203 06-02-0401030202, 06-02-0401030401
06-53-0000000047	City of Hilcrest Village Land Acquisition	Purchase additional land for retention pond construction to mitigate flooding in flood zones.	06-20-0000000001, 06-20-0000000015	Brazoria	06-02-0402040400
06-53-0000000048	City of Manvel Property Acquisition	Acquire Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties in the 100-year flood plain, as identified by FEMA and NFIP.	06-20-0000000001, 06-20-0000000015	Brazoria	06-02-0402040200, 06-02-0402040400 06-02-0402040100
06-53-0000000049	City of Bellaire Flood Early Warning System	Develop Flood Early Warning System for the City of Bellaire to inform emergency responders and to assist residents in making safe decisions during major storm events.	06-20-0000000001, 06-20-0000000010 06-20-0000000015	Harris	06-02-0401040402, 06-02-0401040401
06-53-0000000050	City of Bayou Vista Management Practices for Securing Windblown Debris in Canals	Debris generated by many hazards if the level of intensity allows. Implement plan to remove debris throughout the canal system especially since Bayou Vista is a residential canal community.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000015	Galveston	06-02-0402040200
06-53-0000000051	Maintain Drainage Systems and Culverts in City of Friendswood	Clean & recut drainage ditches, complete work orders related to conveyance systems. Pursue sub-regional drainage improvements.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000015	Galveston, Harris	06-02-0402040200, 06-02-0402040100
06-53-0000000052	City of League City Property Acquisition and Relocation	Buying and removing property from the floodplain will reduce long-term, repetitive flood loss. The open space created by the removal of insured property will facilitate drainage and allow for the creation of recreation areas.	06-20-0000000001, 06-20-0000000015	Galveston, Harris	06-02-0402040200, 06-02-0402040100
06-53-0000000053	City of Santa Fe - Harden Existing Critical Facilities and Infrastructure	Harden existing critical facilities and infrastructure. Specifically City Hall, Maintenance Building, Library, and Community Center.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000015	Galveston	06-02-0402040300, 06-02-0402040200
06-53-0000000054	City of Santa Fe - Drainage System Maintenance	Keep areas of concern free of unnecessary debris as needed. Implement and maintain tree, vegetation trimming/removal near, infrastructure, drainage systems and roadside areas.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000015	Galveston	06-02-0402040300, 06-02-0402040200

Table 14 Identified Potentially Feasible Flood Management Strategies

FMS ID	FMS Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost ($)	Non-recurring, Non-capital Cost ($)
06-53-0000000042	Waller County Freeboard Requirement Update	Regulatory and Guidance	515.95	Riverine, Urban or Local	Waller County	Waller, Waller, Hempstead, Brookshire, Brookshire Katy Drainage District, Katy	N	100000	5000
06-53-0000000043	Install Outdoor Early warning System in Walker County	Education and Outreach	797.84	Riverine, Urban or Local	Walker County	Walker, Huntsville, New Waverly	N	850000	42500
06-53-0000000044	Walker County Public Hazard Information and Awareness Campaign	Education and Outreach	797.84	Riverine, Urban or Local	Walker County	Walker, Huntsville, New Waverly	N	20000	1000
06-53-0000000045	Retrofit and Harden the Emergency Operations Center Serving Walker County	Education and Outreach	797.84	Riverine, Urban or Local	Walker County	Walker, Huntsville	N	4000000	200000
06-53-0000000046	City of Cleveland Drainage Maintenance	Infrastructure Projects	18.74	Riverine, Urban or Local	City of Cleveland	Cleveland, San Jacinto, Montgomery	N	5000000	250000
06-53-0000000047	City of Hilcrest Village Land Acquisition	Property Acquisition and Structural Elevation	0.44	Riverine, Urban or Local	City of Hillcrest Village	Hillcrest	Y	250000	12500
06-53-0000000048	City of Manvel Property Acquisition	Property Acquisition and Structural Elevation	27.41	Riverine, Urban or Local	City of Manvel	Manvel	Y	1700000	170000
06-53-0000000049	City of Bellaire Flood Early Warning System	Flood Measurement and Warning	3.58	Riverine, Urban or Local	City of Bellaire	Bellaire, Harris County Flood Control District	N	150000	7500
06-53-0000000050	City of Bayou Vista Management Practices for Securing Windblown Debris in Canals	Infrastructure Projects	0.45	Riverine, Coastal, Urban or Local	City of Bayou Vista	Bayou Vista	N	100000	5000
06-53-0000000051	Maintain Drainage Systems and Culverts in City of Friendswood	Infrastructure Projects	20.83	Riverine, Urban or Local	City of Friendswood	Friendswood, Harris, Galveston	N	1400000	70000
06-53-0000000052	City of League City Property Acquisition and Relocation	Property Acquisition and Structural Elevation	52.89	Riverine, Urban or Local	City of League City	League City	Y	300000000	30000000
06-53-0000000053	City of Santa Fe - Harden Existing Critical Facilities and Infrastructure	Infrastructure Projects	17.04	Riverine, Urban or Local	City of Santa Fe	Santa Fe	Y	2000000	100000
06-53-0000000054	City of Santa Fe - Drainage System Maintenance	Infrastructure Projects	17.04	Urban or Local	City of Santa Fe	Santa Fe	N	5000	250

Table 14 Identified Potentially Feasible Flood Management Strategies

		Flood Risk										
FMS ID	FMS Name	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)
06-53-0000000042	Waller County Freeboard Requirement Update	28.47864914	5.59079981	1067	708	1859	6.00		19	41	$19	1357.317261
06-53-0000000043	Install Outdoor Early warning System in Walker County	61.20943451	10.47330761	505	437	545	1.00		2	25	$2	180.4646454
06-53-0000000044	Walker County Public Hazard Information and Awareness Campaign	61.20943451	10.47330761	505	437	545	1.00		2	25	$2	180.4646454
06-53-0000000045	Retrofit and Harden the Emergency Operations Center Serving Walker County	61.20943451	10.47330761	505	437	545	1.00		2	25	$2	180.4646454
06-53-0000000046	City of Cleveland Drainage Maintenance	6.83028889	1.08133602	261	133	1037	0.00		1	27	$1	28.87845421
06-53-0000000047	City of Hilcrest Village Land Acquisition	0.194538	0.041739	128	121	333	1.00		0	2	$0	0.134774
06-53-0000000048	City of Manvel Property Acquisition	8.40893459	0.781923	1250	966	6741	8.00		0	43	$0	178.8014679
06-53-0000000049	City of Bellaire Flood Early Warning System	2.95886993	0.53965998	5879	5539	25741	71.00		0	71	$0	0.15173601
06-53-0000000050	City of Bayou Vista Management Practices for Securing Windblown Debris in Canals	0.44737601	0	1122	1095	1476	3.00		0	8	$0	0
06-53-0000000051	Maintain Drainage Systems and Culverts in City of Friendswood	5.11536121	2.80429006	1680	1601	4640	2.00		5	38	$5	18.37308311
06-53-0000000052	City of League City Property Acquisition and Relocation	16.73944092	10.14413548	5251	4835	13675	25.00		2	105	$2	1308.191162
06-53-0000000053	City of Santa Fe - Harden Existing Critical Facilities and Infrastructure	0.68123299	2.37156296	400	306	748	1.00		9	4	$9	12.12156868
06-53-0000000054	City of Santa Fe - Drainage System Maintenance	0.68123299	2.37156296	400	306	748	1.00		9	4	$9	12.12156868

Table 14 Identified Potentially Feasible Flood Management Strategies

		Reduction in Flood Risk											
FMS ID	FMS Name	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)[A]	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-53-0000000042	Waller County Freeboard Requirement Update	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000043	Install Outdoor Early warning System in Walker County	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000044	Walker County Public Hazard Information and Awareness Campaign	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000045	Retrofit and Harden the Emergency Operations Center Serving Walker County	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000046	City of Cleveland Drainage Maintenance	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000047	City of Hilcrest Village Land Acquisition	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000048	City of Manvel Property Acquisition	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000049	City of Bellaire Flood Early Warning System	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000050	City of Bayou Vista Management Practices for Securing Windblown Debris in Canals	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000051	Maintain Drainage Systems and Culverts in City of Friendswood	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000052	City of League City Property Acquisition and Relocation	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000053	City of Santa Fe - Harden Existing Critical Facilities and Infrastructure	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000054	City of Santa Fe - Drainage System Maintenance	0	0	0	0	0	0	0.00	0	0	0	$0	0

Table 14 Identified Potentially Feasible Flood Management Strategies

FMS ID	FMS Name	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
06-53-0000000042	Waller County Freeboard Requirement Update	0	N	N	N	N
06-53-0000000043	Install Outdoor Early warning System in Walker County	0	N	N	N	N
06-53-0000000044	Walker County Public Hazard Information and Awareness Campaign	0	N	N	N	N
06-53-0000000045	Retrofit and Harden the Emergency Operations Center Serving Walker County	0	N	N	N	N
06-53-0000000046	City of Cleveland Drainage Maintenance	0	N	N	N	N
06-53-0000000047	City of Hilcrest Village Land Acquisition	0	N	N	N	N
06-53-0000000048	City of Manvel Property Acquisition	0	N	N	N	N
06-53-0000000049	City of Bellaire Flood Early Warning System	0	N	N	N	N
06-53-0000000050	City of Bayou Vista Management Practices for Securing Windblown Debris in Canals	0	N	N	N	N
06-53-0000000051	Maintain Drainage Systems and Culverts in City of Friendswood	0	N	N	N	N
06-53-0000000052	City of League City Property Acquisition and Relocation	0	N	N	N	N
06-53-0000000053	City of Santa Fe - Harden Existing Critical Facilities and Infrastructure	0	N	N	N	N
06-53-0000000054	City of Santa Fe - Drainage System Maintenance	0	N	N	N	N

Table 14 Identified Potentially Feasible Flood Management Strategies

FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name
06-53-0000000055	Liberty County Floodplain Acquisition	Acquisition of property in the floodplain.	06-20-0000000001, 06-20-0000000015	Liberty	06-02-0402040300, 06-02-0402040200 06-02-0402040400, 06-02-0402040100
06-53-0000000056	City of Galveston Floodplain Manager Increase	Increase and maintain number of floodplain managers in the building division through training and certification.	06-20-0000000001, 06-20-0000000007 06-20-0000000015	Galveston	06-02-0402040300, 06-02-0402040200 06-02-0402040400, 06-02-0402040500
06-53-0000000057	City of Galveston SRL and RL Property Mitigation	Elevation, acquisition or other mitigation of identified Repetitive Loss and Severe Repetitive Loss properties and structures damaged by flooding.	06-20-0000000001, 06-20-0000000015	Galveston	06-02-0402040300, 06-02-0402040200 06-02-0402040400, 06-02-0402040500
06-53-0000000058	City of Bunker Hill Village Non-Structural Mitigation Projects	Non-structural mitigation measure - buried powerlines, tree management and generators	06-20-0000000001, 06-20-0000000015	Harris	06-02-0401040303
06-53-0000000059	Hardening of Critical Facilities in City of Mission Todd	Protecting critical facilities such as hospitals, fire stations, police stations and water treatment plants can help keep them operational during severe storms.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000015	Grimes	06-02-0401020203, 06-02-0401020206
06-53-0000000060	Harris County Mitigation Buyout and Relocation Program	This program is designed to assist owners whose properties were damaged by a natural disaster and or in an area that is designated hopelessly deep in the floodplain and repetitively flooded, to relocate outside the threat of flooding.	06-20-0000000001, 06-20-0000000015	Harris	
06-53-0000000061	City of Alvin Full Time Floodplain Administrator	Hire a full-time floodplain administrator who can support CRS application, NFIP, mapping and community floodplain support. A dedicated employee could help the community obtain CRS status and full time flood plain support.	06-20-0000000001, 06-20-0000000007 06-20-0000000015	Brazoria, Galveston, Fort Bend	06-02-0402040300, 06-02-0402040200 06-02-0402040400, 06-02-0402040100
06-53-0000000062	City of Pearland SRL and RL Property Acquisition	Continue working with County and State officials to identify repetitive loss and severe repetitive loss properties, and pursue mitigation projects to reduce risk.	06-20-0000000001, 06-20-0000000015	Brazoria, Fort Bend, Harris	06-02-0401040501, 06-02-0402040200 06-02-0402040400, 06-02-0402040100
06-53-0000000063	Harris County Wide Voluntary Buyout Program	Targeted home buyouts to reduce flood damages in areas several feet deep in the floodplain where structural projects to reduce flooding are not cost-effective and/or beneficial.	06-20-0000000001, 06-20-0000000015	Harris	
06-53-0000000064	Mitigate Repetitive Flood Claim & Severe Repetitive Loss Properties in Galveston County	Grant funding through HMGP may be used to mitigate RFC and SRL properties. Mitigation option will be implemented with property owners as funding and opportunities arise.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Galveston	06-02-0402040200
06-53-0000000065	Liberty County Regional Coordination	Work with adjoining counties regarding flooding and drainage issues.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Liberty	06-02-0401030201, 06-02-0401030108 06-02-0401030109, 06-02-0401030205 06-02-0401030402, 06-02-0401030203 06-02-0401030204, 06-02-0401030202 06-02-0401030401, 06-02-0402030104 06-02-0402030103, 06-02-0402030102 06-02-0402030101
06-53-0000000066	Warren Ranch Preservation	Acquisition of remaining private interest stake in the 6,004-acre Warren Ranch for floodplain preservation and conservation. Place a conservation easement on the Ranch to conserve ag and natural habitat.	06-20-0000000012, 06-20-0000000013	Harris	06-02-0401020103
06-53-0000000067	Cypress Creek Headwater Acquisition and Preservation	Acquisition and restoration of 1,074-acres of ag and natural lands at the headwaters of Cypress Creek.	06-20-0000000012, 06-20-0000000013	Waller	06-02-0401020102, 06-02-0401020103

Table 14 Identified Potentially Feasible Flood Management Strategies

FMS ID	FMS Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost ($)	Non-recurring, Non-capital Cost ($)
06-53-0000000055	Liberty County Floodplain Acquisition	Property Acquisition and Structural Elevation	664.95	Riverine, Urban or Local	Liberty County	Liberty, Dayton	Y	750000	75000
06-53-0000000056	City of Galveston Floodplain Manager Increase	Regulatory and Guidance	211.08	Riverine, Coastal, Urban or Local	City of Galveston	Galveston	N	10000	500
06-53-0000000057	City of Galveston SRL and RL Property Mitigation	Property Acquisition and Structural Elevation	211.08	Riverine, Coastal, Urban or Local	City of Galveston	Galveston, Galveston	Y	80000	8000
06-53-0000000058	City of Bunker Hill Village Non-Structural Mitigation Projects	Other	1.44	Riverine, Urban or Local	City of Bunker Hill Village	Harris, Harris County Flood Control District, Bunker Hill Village,	N	100000	5000
06-53-0000000059	Hardening of Critical Facilities in City of Mission Todd	Infrastructure Projects	2.00	Riverine, Urban or Local	City of Todd Mission	Grimes, Todd Mission	Y	25000	1250
06-53-0000000060	Harris County Mitigation Buyout and Relocation Program	Property Acquisition and Structural Elevation	1770.82	Riverine, Coastal, Urban or Local	Harris County	Harris, Houston, Harris County Flood Control District	Y	75000000	7500000
06-53-0000000061	City of Alvin Full Time Floodplain Administrator	Regulatory and Guidance	25.09	Riverine, Urban or Local	City of Alvin	Alvin	N	100000	5000
06-53-0000000062	City of Pearland SRL and RL Property Acquisition	Property Acquisition and Structural Elevation	48.68	Riverine, Urban or Local	City of Pearland	Pearland, Brazoria, Brazoria County Drainage District 4	Y	100000	10000
06-53-0000000063	Harris County Wide Voluntary Buyout Program	Property Acquisition and Structural Elevation	1770.82	Riverine, Coastal, Urban or Local	Harris County Flood Control District (HCFCD)	Harris, Houston, Harris County Flood Control District	Y	500000000	50000000
06-53-0000000064	Mitigate Repetitive Flood Claim & Severe Repetitive Loss Properties in Galveston County	Property Acquisition and Structural Elevation	14.23	Riverine, Coastal, Urban or Local	Galveston County	Galveston, Galveston, Jamaica Beach, Hitchcock, La Marque, Santa Fe, Texas City,	N	30000000	1500000
06-53-0000000065	Liberty County Regional Coordination	Other	1169.92	Riverine, Coastal, Urban or Local	Liberty County	Liberty, Chambers, Harris, San Jacinto, Hardin	N	500000	25000
06-53-0000000066	Warren Ranch Preservation	Property Acquisition and Structural Elevation	9.38	Riverine	Coastal Prairie Conservancy	Harris County Flood Control District (HCFCD),Harris County	N	50000000	5000000
06-53-0000000067	Cypress Creek Headwater Acquisition and Preservation	Property Acquisition and Structural Elevation	1.72	Riverine	Coastal Prairie Conservancy	Harris County Flood Control District (HCFCD),Harris County		18000000	1800000

Table 14 Identified Potentially Feasible Flood Management Strategies

		Flood Risk										
FMS ID	FMS Name	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)
06-53-0000000055	Liberty County Floodplain Acquisition	307.7580566	87.02190399	48570	42185	102755	681.00		30	910	$30	3412.024902
06-53-0000000056	City of Galveston Floodplain Manager Increase	76.41335297	2.275702	21858	19143	64300	509.00		0	409	$0	260.8822632
06-53-0000000057	City of Galveston SRL and RL Property Mitigation	76.41335297	2.275702	21858	19143	64300	509.00		0	409	$0	260.8822632
06-53-0000000058	City of Bunker Hill Village Non-Structural Mitigation Projects	0	0.001002	0	0	0	0.00		0	0	$0	0
06-53-0000000059	Hardening of Critical Facilities in City of Mission Todd	0.332829	0	17	11	16	0.00		0	0	$0	1.11601198
06-53-0000000060	Harris County Mitigation Buyout and Relocation Program	444.5074768	200.0857544	143642	120807	590954	2332.00		89	2408	$89	5993.469238
06-53-0000000061	City of Alvin Full Time Floodplain Administrator	444.5074768	200.0857544	3445	2605	15192	18.00		0	57	$0	262.2955933
06-53-0000000062	City of Pearland SRL and RL Property Acquisition	3.75369406	9.13435555	4791	3666	11939	22.00		0	76	$0	137.4742127
06-53-0000000063	Harris County Wide Voluntary Buyout Program	84.53376007	27.96935654	143642	120807	590954	2332.00		89	2408	$89	5993.469238
06-53-0000000064	Mitigate Repetitive Flood Claim & Severe Repetitive Loss Properties in Galveston County	8.78672791	0.86589003	829	767	1455	8.00		1	31	$1	37.84939575
06-53-0000000065	Liberty County Regional Coordination	12.46020412	10.59856892	3619	2272	3576	8.00		7	144	$7	1379.48999
06-53-0000000066	Warren Ranch Preservation	3.49746171	0.77624658	0	0	0	0.00		2	0	$2	239.5990121
06-53-0000000067	Cypress Creek Headwater Acquisition and Preservation	0.10059837	0.02155557	0	0	0	0.00		0	0	$0	8.86821664

Table 14 Identified Potentially Feasible Flood Management Strategies

		Reduction in Flood Risk											
FMS ID	FMS Name	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)[A]	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-53-0000000055	Liberty County Floodplain Acquisition	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000056	City of Galveston Floodplain Manager Increase	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000057	City of Galveston SRL and RL Property Mitigation	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000058	City of Bunker Hill Village Non-Structural Mitigation Projects	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000059	Hardening of Critical Facilities in City of Mission Todd	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000060	Harris County Mitigation Buyout and Relocation Program	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000061	City of Alvin Full Time Floodplain Administrator	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000062	City of Pearland SRL and RL Property Acquisition	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000063	Harris County Wide Voluntary Buyout Program	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000064	Mitigate Repetitive Flood Claim & Severe Repetitive Loss Properties in Galveston County	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000065	Liberty County Regional Coordination	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000066	Warren Ranch Preservation	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000067	Cypress Creek Headwater Acquisition and Preservation	0	0	0	0	0	0	0.00	0	0	0	$0	0

Table 14 Identified Potentially Feasible Flood Management Strategies

FMS ID	FMS Name	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
06-53-0000000055	Liberty County Floodplain Acquisition	0	N	N	N	N
06-53-0000000056	City of Galveston Floodplain Manager Increase	0	N	N	N	N
06-53-0000000057	City of Galveston SRL and RL Property Mitigation	0	N	N	N	N
06-53-0000000058	City of Bunker Hill Village Non-Structural Mitigation Projects	0	N	N	N	N
06-53-0000000059	Hardening of Critical Facilities in City of Mission Todd	0	N	N	N	N
06-53-0000000060	Harris County Mitigation Buyout and Relocation Program	0	N	N	N	N
06-53-0000000061	City of Alvin Full Time Floodplain Administrator	0	N	N	N	N
06-53-0000000062	City of Pearland SRL and RL Property Acquisition	0	N	N	N	N
06-53-0000000063	Harris County Wide Voluntary Buyout Program	0	N	N	N	N
06-53-0000000064	Mitigate Repetitive Flood Claim & Severe Repetitive Loss Properties in Galveston County	0	N	N	N	N
06-53-0000000065	Liberty County Regional Coordination	0	N	N	N	N
06-53-0000000066	Warren Ranch Preservation	0	Y	N	N	N
06-53-0000000067	Cypress Creek Headwater Acquisition and Preservation	0	Y	N	N	N

Table 14 Identified Potentially Feasible Flood Management Strategies

FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name
06-53-0000000070	Chambers County Community Rating System	Join the Community Rating System to reduce flood insurance premiums and flood risk for residents.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Chambers	06-02-0402030105, 06-02-0402030104 06-02-0402030106, 06-02-0402030200
06-53-0000000071	Chambers County Flood Model and Map Management System	Develop and implement a web-based system to manage flood models and mapping and regulate future development.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Chambers	06-02-0402030105, 06-02-0402030104 06-02-0402030106, 06-02-0402030200
06-53-0000000072	Chambers County Property Acquisition	This flood management strategy proposes that funds be established for Chambers County to implement a county-wide voluntary property acquisition program for structures located within the 100-year floodplain or the floodway of an existing watercourse.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Chambers	06-02-0402030105, 06-02-0402030104 06-02-0402030106, 06-02-0402030200
06-53-0000000073	Chambers County Drainage Criteria Manual Update	Update Drainage Criteria Manual for the County to minimize and eliminate the possibility of future development adversely impacting downstream communities.	06-20-0000000001, 06-20-0000000007 06-20-0000000011, 06-20-0000000012 06-20-0000000015	Chambers	06-02-0402030105, 06-02-0402030104 06-02-0402030106, 06-02-0402030200

Table 14 Identified Potentially Feasible Flood Management Strategies

FMS ID	FMS Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost ($)	Non-recurring, Non-capital Cost ($)
06-53-0000000070	Chambers County Community Rating System	Regulatory and Guidance	53.59	Riverine, Coastal	Chambers County	Chambers County, Harris County, Liberty County, Beach City, Mont Belvieu, Chambers-Liberty Counties Navigation District, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District (HCFCD), Houston-Galveston Area Council, Chambers County Improvement District 3, Chambers County Improvement District 2, Chambers-Liberty Counties Improvement District, Chambers County Improvement District 1, Chambers County MUD 1, Coastal Water Authority, Baytown Area Water Authority, Chambers County MUD 3, Chambers County MUD 2, Trinity River Authority of Texas, Gulf Coast Protection District, Liberty County Water Control District 1		8000	400
06-53-0000000071	Chambers County Flood Model and Map Management System	Regulatory and Guidance	53.59	Riverine, Coastal	Chambers County	Chambers County, Harris County, Liberty County, City of Baytown Beach City, Mont Belvieu, Chambers-Liberty Counties Navigation District, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District (HCFCD), Houston-Galveston Area Council, Chambers County Improvement District 3, Chambers County Improvement District 2, Chambers-Liberty Counties Improvement District, Chambers County Improvement District 1, Chambers County MUD 1, Coastal Water Authority, Baytown Area Water Authority, Chambers County MUD 3, Chambers County MUD 2, Trinity River Authority of Texas, Gulf Coast Protection District, Liberty County Water Control District 1		36000	1800
06-53-0000000072	Chambers County Property Acquisition	Regulatory and Guidance	53.59	Riverine, Coastal	Chambers County	Chambers County, Harris County, Liberty County, City of Baytown, Beach City, Mont Belvieu, San Jacinto Region Boundary, Chambers-Liberty Counties Navigation District, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Chambers County Improvement District 3, Chambers County Improvement District 2, Chambers-Liberty Counties Improvement District, Chambers County Improvement District 1, Chambers County MUD 1, Coastal Water Authority, Baytown Area Water Authority, Chambers County MUD 3, Chambers County MUD 2, Trinity River Authority of Texas, Gulf Coast Protection District, Liberty County Water Control District 1, 0		360000	18000
06-53-0000000073	Chambers County Drainage Criteria Manual Update	Regulatory and Guidance	53.59	Riverine, Coastal	Chambers County	Chambers County, Harris County, Liberty County, City of Baytown, Beach City, Mont Belvieu, San Jacinto Region Boundary, Chambers-Liberty Counties Navigation District, Gulf Coast Waste Disposal Authority, Port of Houston Authority, Harris County Flood Control District, Houston-Galveston Area Council, Chambers County Improvement District 3, Chambers County Improvement District 2, Chambers-Liberty Counties Improvement District, Chambers County Improvement District 1, Chambers County MUD 1, Coastal Water Authority, Baytown Area Water Authority, Chambers County MUD 3, Chambers County MUD 2, Trinity River Authority of Texas, Gulf Coast Protection District, Liberty County Water Control District 1, 0		127000	6350

Table 14 Identified Potentially Feasible Flood Management Strategies

		Flood Risk										
FMS ID	FMS Name	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)
06-53-0000000070	Chambers County Community Rating System	9.889356613	4.580060005	146	54	775	0.00		0	7	$0	353.7679443
06-53-0000000071	Chambers County Flood Model and Map Management System	9.889356613	4.580060005	146	54	775	0.00		0	7	$0	353.7679443
06-53-0000000072	Chambers County Property Acquisition	9.889356613	4.580060005	146	54	775	0.00		0	7	$0	353.7679443
06-53-0000000073	Chambers County Drainage Criteria Manual Update	9.889356613	4.580060005	146	54	775	0.00		0	7	$0	353.7679443

Table 14 Identified Potentially Feasible Flood Management Strategies

		Reduction in Flood Risk											
FMS ID	FMS Name	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)[A]	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-53-0000000070	Chambers County Community Rating System	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000071	Chambers County Flood Model and Map Management System	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000072	Chambers County Property Acquisition	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000073	Chambers County Drainage Criteria Manual Update	0	0	0	0	0	0	0.00	0	0	0	$0	0

Table 14 Identified Potentially Feasible Flood Management Strategies

FMS ID	FMS Name	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
06-53-0000000070	Chambers County Community Rating System	0	N	N	N	N
06-53-0000000071	Chambers County Flood Model and Map Management System	0	N	N	N	N
06-53-0000000072	Chambers County Property Acquisition	0	N	N	N	N
06-53-0000000073	Chambers County Drainage Criteria Manual Update	0	N	N	N	N

Table 14 Identified Potentially Feasible Flood Management Strategies

FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name
06-53-0000000074	West Fork San Jacinto River floodplain preservation	Partnerships to acquire/place conservation easements on high-quality floodplain parcels upstream of the West Fork San Jacinto River. This pre-disaster strategy enhances resilience and floodplain function per ASFPM best practices.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000013 06-20-0000000014, 06-20-0000000015	Montgomery	06-02-0401030110, 06-02-0401010207 06-02-0401010308, 06-02-0401010401 06-02-0401010402, 06-02-0401010403 06-02-0401020211, 06-02-0401020213 06-02-0401030104, 06-02-0401030102 06-02-0401030105, 06-02-0401010205 06-02-0401010206, 06-02-0401010404 06-02-040101050
06-53-0000000075	Spring Creek floodplain preservation	Partnerships to acquire/place conservation easements on high-quality floodplain parcels below Lake Conroe and upstream of Spring Creek. This pre-disaster strategy enhances resilience and floodplain function per ASFPM best practices.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000013 06-20-0000000014, 06-20-0000000015	Harris, Waller, Montgomery, Grimes	
06-53-0000000076	Lake Creek floodplain preservation	Partnerships to acquire/place conservation easements on high-quality floodplain parcels upstream of the West Fork San Jacinto River. This pre-disaster strategy enhances resilience and floodplain function per ASFPM best practices.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000013 06-20-0000000014, 06-20-0000000015	Montgomery, Grimes	
06-53-0000000077	Updates to San Jacinto River Authority Lake Conroe Reservoir Forecast Tool	Update to forecasting tool, including the incorporation of latest modeling analyses and methodologies, latest software, and/or additional stream gauge data to increase accuracy and accessibility.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015	Montgomery, Grimes, Walker	
06-53-0000000078	San Jacinto River Watershed Gage Network Expansion	Install up to 48 rain/stream gages in Montgomery, Waller, Grimes, Walker, San Jacinto, and Liberty counties to enhance flood warning in the San Jacinto River Watershed.	06-20-0000000001	Waller, Liberty, Montgomery, Grimes, San Jacinto, Walker	
06-53-0000000079	Harris County Community Based Catastrophe Insurance	Community Based Catastrophe Insurance to reduce impact of flood damages in areas several feet deep in the floodplain where structural projects to reduce flooding are not cost effective	06-20-0000000001, 06-20-0000000015	Harris	
06-53-0000000080	Harris County Flood Control District's Flood Warning System	The Harris County Flood Control District's Flood Warning System relies on 188 gage stations strategically placed throughout Harris County bayous and their tributaries that contain sensors that transmit flows and water levels during times of heavy rain	06-20-0000000001	Harris	
06-53-0000000081	City of Houston Green Infrastructure Program	Establish, adopt, and implement a "green infrastructure" program for parks, nature preserves, greenbelts, etc.	06-20-0000000001, 06-20-0000000007 06-20-0000000013, 06-20-0000000014	Harris, Brazoria, Fort Bend, Waller, Montgomery	
06-53-0000000082	City of Houston Open Space Preservation	Acquire and preserve open spaces adjacent to floodplain areas.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015 06-20-0000000016	Harris, Brazoria, Fort Bend, Waller, Montgomery	
06-53-0000000083	City of Houston- Harden Sewage Lift Stations	Raise electrical components of sewage lift stations above the Base Flood Elevation (BFE).	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015 06-20-0000000016	Harris, Brazoria, Fort Bend, Waller, Montgomery	
06-53-0000000084	City of Houston Workorder Management System	Workorder Management System: Upgrade existing route management software to install and integrate a system to track the flow of service requests during extreme weather events.	06-20-0000000001	Harris, Brazoria, Fort Bend, Waller, Montgomery	

Table 14 Identified Potentially Feasible Flood Management Strategies

FMS ID	FMS Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost ($)	Non-recurring, Non-capital Cost ($)
06-53-0000000074	West Fork San Jacinto River floodplain preservation	Other	214.93	Riverine	Bayou Land Conservancy			40489000	2024450
06-53-0000000075	Spring Creek floodplain preservation	Other	451.16	Riverine	Bayou Land Conservancy			32897000	1644850
06-53-0000000076	Lake Creek floodplain preservation	Other	325.81	Riverine	Bayou Land Conservancy	Montgomery, Grimes, Plantersville, Montgomery, San Jacinto Region Boundary, Brazos Valley Council of Governments, San Jacinto River Authority, Brazos River Authority, Harris Montgomery Counties Management District, Houston-Galveston Area Council, Montgomery County MUD 125, Westwood Magnolia Parkway Improvement District, Blaketree MUD 1 of Montgomery County, Grimes County MUD 1, Martin Creek MUD, Montgomery County MUD 123, Montgomery County MUD 167, Blaketree MUD 2 of Montgomery County, Montgomery County MUD 114, Montgomery County MUD 139, Montgomery County MUD 113, Montgomery County MUD 180, Montgomery County MUD 166, Montgomery County MUD 121, NA		43019000	2150950
06-53-0000000077	Updates to San Jacinto River Authority Lake Conroe Reservoir Forecast Tool	Flood Measurement and Warning	448.19	Riverine	San Jacinto River Authority	San Jacinto River Authority		346000	17300
06-53-0000000078	San Jacinto River Watershed Gage Network Expansion	Flood Measurement and Warning	2388.08	Riverine	San Jacinto River Authority	San Jacinto River Authority		1286000	64300
06-53-0000000079	Harris County Community Based Catastrophe Insurance	Regulatory and Guidance	1768.51	Riverine, Coastal	Harris County Flood Control District (HCFCD)	Harris County Flood Control District (HCFCD)		1266000	63300
06-53-0000000080	Harris County Flood Control District's Flood Warning System	Flood Measurement and Warning	1768.51	Riverine, Coastal	Harris County Flood Control District (HCFCD)	Harris County Flood Control District (HCFCD)		1055000	52750
06-53-0000000081	City of Houston Green Infrastructure Program	Regulatory and Guidance	669.27	Riverine, Urban or Local	City of Houston	City of Houston		10000	500
06-53-0000000082	City of Houston Open Space Preservation	Property Acquisition and Structural Elevation	669.27	Riverine, Coastal, Urban or Local	City of Houston	City of Houston		1000000	50000
06-53-0000000083	City of Houston- Harden Sewage Lift Stations	Property Acquisition and Structural Elevation	669.27	Urban or Local	City of Houston	City of Houston		250000	12500
06-53-0000000084	City of Houston Workorder Management System	Other	669.27	Riverine, Urban or Local	City of Houston	City of Houston		1000000	50000

Table 14 Identified Potentially Feasible Flood Management Strategies

		Flood Risk										
FMS ID	FMS Name	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)
06-53-0000000074	West Fork San Jacinto River floodplain preservation	62.5423317	14.53338337	5153	3985	18347	49.00		20	121	$20	331.5379333
06-53-0000000075	Spring Creek floodplain preservation	73.62902069	26.32207489	5516	4473	27005	51.00		36	142	$36	290.8347778
06-53-0000000076	Lake Creek floodplain preservation	63.57873154	9.853969574	830	649	1011	0.00		10	31	$10	383.6095886
06-53-0000000077	Updates to San Jacinto River Authority Lake Conroe Reservoir Forecast Tool	90.78144836	12.01357365	4287	3634	10156	2.00		12	38	$12	205.464798
06-53-0000000078	San Jacinto River Watershed Gage Network Expansion	519.4884644	116.6863937	27280	21172	76613	130.00		102	668	$102	2806.27124
06-53-0000000079	Harris County Community Based Catastrophe Insurance	441.9170837	200.0979919	143588	120752	976848	2132.00		84	2407	$84	5983.728027
06-53-0000000080	Harris County Flood Control District's Flood Warning System	441.9170837	200.0979919	143588	120752	976848	2132.00		84	2407	$84	5983.728027
06-53-0000000081	City of Houston Green Infrastructure Program											
06-53-0000000082	City of Houston Open Space Preservation											
06-53-0000000083	City of Houston- Harden Sewage Lift Stations											
06-53-0000000084	City of Houston Workorder Management System											

Table 14 Identified Potentially Feasible Flood Management Strategies

		Reduction in Flood Risk											
FMS ID	FMS Name	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)[A]	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-53-0000000074	West Fork San Jacinto River floodplain preservation	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000075	Spring Creek floodplain preservation	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000076	Lake Creek floodplain preservation	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000077	Updates to San Jacinto River Authority Lake Conroe Reservoir Forecast Tool	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000078	San Jacinto River Watershed Gage Network Expansion	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000079	Harris County Community Based Catastrophe Insurance	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000080	Harris County Flood Control District's Flood Warning System	0	0	0	0	0	0	0.00	0	0	0	$0	0
06-53-0000000081	City of Houston Green Infrastructure Program												
06-53-0000000082	City of Houston Open Space Preservation												
06-53-0000000083	City of Houston- Harden Sewage Lift Stations												
06-53-0000000084	City of Houston Workorder Management System												

Table 14 Identified Potentially Feasible Flood Management Strategies

FMS ID	FMS Name	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
06-53-0000000074	West Fork San Jacinto River floodplain preservation	0	Yes	N	N	N
06-53-0000000075	Spring Creek floodplain preservation	0	Yes	N	N	N
06-53-0000000076	Lake Creek floodplain preservation	0	Yes	N	N	N
06-53-0000000077	Updates to San Jacinto River Authority Lake Conroe Reservoir Forecast Tool	0	N	N	N	N
06-53-0000000078	San Jacinto River Watershed Gage Network Expansion	0	N	N	N	N
06-53-0000000079	Harris County Community Based Catastrophe Insurance	0	N	N	N	N
06-53-0000000080	Harris County Flood Control District's Flood Warning System	0	N	N	N	N
06-53-0000000081	City of Houston Green Infrastructure Program					
06-53-0000000082	City of Houston Open Space Preservation					
06-53-0000000083	City of Houston- Harden Sewage Lift Stations					
06-53-0000000084	City of Houston Workorder Management System					

Table 14 Identified Potentially Feasible Flood Management Strategies

FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name
06-53-0000000085	City of Houston- Harden Existing Critical Facilities	Relocating fire stations from the flood plain. Harden/retrofit critical facilities to hazard-resistant levels, Kingwood area	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015 06-20-0000000016	Harris, Montgomery	06-02-0401010502, 06-02-0401010501 06-02-0401010404, 06-02-0401020213 06-02-0401030110, 06-02-0401030205 06-02-0401030402
06-53-0000000086	City of Houston Retention Pond Ordinance	Adopt an ordinance to require retention ponds in all new developments and to validate retention ponds in existing high-risk flood areas.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000007 06-20-0000000011, 06-20-0000000012 06-20-0000000015, 06-20-0000000016	Harris, Brazoria, Fort Bend, Waller, Montgomery	
06-53-0000000087	Cit of Baytown Education and Awareness Program	Educate residents on local hazards and safety steps through media, social media, flyers, and bulletins. Include weather alert links and department contacts with personnel info to help reduce injuries, fatalities, and property damage.	06-20-0000000001	Chambers, Harris	06-02-0401040705, 06-02-0401040706 06-02-0402030105, 06-02-0402030106 06-02-0402030200
06-53-0000000088	City of Baytown Green Infrastructure Program	Establish, adopt, and implement a "green infrastructure" program for parks, nature preserves, greenbelts, etc., implementing bioswales for parking lots and streets.	06-20-0000000001, 06-20-0000000007 06-20-0000000013, 06-20-0000000014	Chambers, Harris	06-02-0401040705, 06-02-0401040706 06-02-0402030105, 06-02-0402030106 06-02-0402030200
06-53-0000000089	City of Baytown Green Infrastructure Inclusion	Develop and implement policies that encourage the inclusion of green infrastructure into City Development Projects to mitigate natural hazards.	06-20-0000000001, 06-20-0000000007 06-20-0000000013, 06-20-0000000014	Chambers, Harris	06-02-0401040705, 06-02-0401040706 06-02-0402030105, 06-02-0402030106 06-02-0402030200
06-53-0000000090	City of Baytown Home Elevation and Acquisition Program	Implement a home elevation / home acquisition program to identify SRL/RL residential properties and grant funding opportunities to ensure compliance with local building codes, floodplain ordinance, and CRS requirements.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000007 06-20-0000000011, 06-20-0000000012 06-20-0000000015, 06-20-0000000016	Chambers, Harris	06-02-0401040705, 06-02-0401040706 06-02-0402030105, 06-02-0402030106 06-02-0402030200
06-53-0000000091	City of Baytown- Harden Existing Critical Facilities	Enhance and elevate generators at identified critical city facilities, utilities, and infrastructure systems by replacing end of life equipment with natural-gas powered generators.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015 06-20-0000000016	Chambers, Harris	06-02-0401040705, 06-02-0401040706 06-02-0402030105, 06-02-0402030106 06-02-0402030200
06-53-0000000092	City of Baytown Emergency Operations Center Improvements	Improve and harden the Baytown Emergency Operations Center to include expansion, renovation, and upgrade to sustain emergency services and core city services.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015 06-20-0000000016	Chambers, Harris	06-02-0401040705, 06-02-0401040706 06-02-0402030105, 06-02-0402030106 06-02-0402030200
06-53-0000000093	City of Baytown Higher Standard Implementation	Review and where feasible implement higher standards that incorporate disaster resistant and hazard mitigation principles into local building codes, floodplain ordinances, and fire codes.	06-20-0000000001, 06-20-0000000007	Chambers, Harris	06-02-0401040705, 06-02-0401040706 06-02-0402030105, 06-02-0402030106 06-02-0402030200
06-53-0000000094	City of Baytown Structure Retrofitting and Relocation Program	Where appropriate, support retrofitting, purchase or relocation of structures located in hazard areas, prioritizing those that have experienced repetitive losses and/or are located in high- or medium-risk hazard areas.	06-20-0000000001, 06-20-0000000003 06-20-0000000004, 06-20-0000000011 06-20-0000000012, 06-20-0000000015 06-20-0000000016	Chambers, Harris	06-02-0401040705, 06-02-0401040706 06-02-0402030105, 06-02-0402030106 06-02-0402030200
06-53-0000000095	City of Baytown- Harden Sewer Lift Stations	Elevate Electronic Controls for Sewer Lift Stations 24” above 500- year NFIP Floodplain.	06-20-0000000001, 06-20-0000000011 06-20-0000000012, 06-20-0000000015 06-20-0000000016	Chambers, Harris	06-02-0401040705, 06-02-0401040706 06-02-0402030105, 06-02-0402030106 06-02-0402030200
06-53-0000000096	City of Baytown Flood Hazard Public Education Program	Develop public education program for home owners on flood hazards and flood mitigation techniques to reduce flood damages to property.	06-20-0000000001	Chambers, Harris	06-02-0401040705, 06-02-0401040706 06-02-0402030105, 06-02-0402030106 06-02-0402030200
06-53-0000000097	City of Baytown Community Rating System Classification Improvement	Improve City of Baytown CRS Classification from Class 5 to Class 4	06-20-0000000001, 06-20-0000000007	Chambers, Harris	06-02-0401040705, 06-02-0401040706 06-02-0402030105, 06-02-0402030106 06-02-0402030200
06-53-0000000098	Brazoria Drainage District No. 4 New DCM Regulatory Guidelines	BDD4’s 2013 drainage rules support safe development and require review every 5 years. A major update was made in July 2023, with minor amendments since. Continued updates are encouraged to align with current laws and improve consistency and efficiency.	06-20-0000000001, 06-20-0000000007	Galveston, Harris, Brazoria, Fort Bend	06-02-0402040200, 06-02-0402040400 06-02-0402040100

Table 14 Identified Potentially Feasible Flood Management Strategies

FMS ID	FMS Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost ($)	Non-recurring, Non-capital Cost ($)
06-53-0000000085	City of Houston- Harden Existing Critical Facilities	Property Acquisition and Structural Elevation	43.11	Riverine, Urban or Local	City of Houston	City of Houston		22000000	1100000
06-53-0000000086	City of Houston Retention Pond Ordinance	Regulatory and Guidance	669.27	Riverine, Urban or Local	City of Houston	City of Houston		5000	250
06-53-0000000087	Cit of Baytown Education and Awareness Program	Education and Outreach	38.05	Urban or Local	City of Baytown	City of Baytown		5000	250
06-53-0000000088	City of Baytown Green Infrastructure Program	Regulatory and Guidance	38.05	Riverine, Urban or Local	City of Baytown	City of Baytown		10000	500
06-53-0000000089	City of Baytown Green Infrastructure Inclusion	Regulatory and Guidance	38.05	Riverine, Urban or Local	City of Baytown	City of Baytown		15000	750
06-53-0000000090	City of Baytown Home Elevation and Acquisition Program	Property Acquisition and Structural Elevation	38.05	Riverine, Coastal, Urban or Local	City of Baytown	City of Baytown		1000000	50000
06-53-0000000091	City of Baytown- Harden Existing Critical Facilities	Infrastructure Projects	38.05	Riverine, Urban or Local	City of Baytown	City of Baytown		1000000	50000
06-53-0000000092	City of Baytown Emergency Operations Center Improvements	Infrastructure Projects	38.05	Riverine, Urban or Local	City of Baytown	City of Baytown		3000000	150000
06-53-0000000093	City of Baytown Higher Standard Implementation	Regulatory and Guidance	38.05	Riverine, Coastal, Urban or Local	City of Baytown	City of Baytown		125000	6250
06-53-0000000094	City of Baytown Structure Retrofitting and Relocation Program	Property Acquisition and Structural Elevation	38.05	Riverine, Coastal, Urban or Local	City of Baytown	City of Baytown		1000000	50000
06-53-0000000095	City of Baytown- Harden Sewer Lift Stations	Property Acquisition and Structural Elevation	38.05	Riverine, Coastal, Urban or Local	City of Baytown	City of Baytown		2000000	100000
06-53-0000000096	City of Baytown Flood Hazard Public Education Program	Education and Outreach	38.05	Urban or Local	City of Baytown	City of Baytown		20000	1000
06-53-0000000097	City of Baytown Community Rating System Classification Improvement	Regulatory and Guidance	38.05	Urban or Local	City of Baytown	City of Baytown		50000	2500
06-53-0000000098	Brazoria Drainage District No. 4 New DCM Regulatory Guidelines	Regulatory and Guidance	86.23	Urban or Local	Brazoria Drainage District No. 4	Brazoria Drainage District No. 4		50000	2500

Table 14 Identified Potentially Feasible Flood Management Strategies

		Flood Risk										
FMS ID	FMS Name	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)
06-53-0000000085	City of Houston- Harden Existing Critical Facilities											
06-53-0000000086	City of Houston Retention Pond Ordinance											
06-53-0000000087	Cit of Baytown Education and Awareness Program											
06-53-0000000088	City of Baytown Green Infrastructure Program											
06-53-0000000089	City of Baytown Green Infrastructure Inclusion											
06-53-0000000090	City of Baytown Home Elevation and Acquisition Program											
06-53-0000000091	City of Baytown- Harden Existing Critical Facilities											
06-53-0000000092	City of Baytown Emergency Operations Center Improvements											
06-53-0000000093	City of Baytown Higher Standard Implementation											
06-53-0000000094	City of Baytown Structure Retrofitting and Relocation Program											
06-53-0000000095	City of Baytown- Harden Sewer Lift Stations											
06-53-0000000096	City of Baytown Flood Hazard Public Education Program											
06-53-0000000097	City of Baytown Community Rating System Classification Improvement											
06-53-0000000098	Brazoria Drainage District No. 4 New DCM Regulatory Guidelines											

Table 14 Identified Potentially Feasible Flood Management Strategies

		Reduction in Flood Risk											
FMS ID	FMS Name	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)[A]	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
06-53-0000000085	City of Houston- Harden Existing Critical Facilities												
06-53-0000000086	City of Houston Retention Pond Ordinance												
06-53-0000000087	Cit of Baytown Education and Awareness Program												
06-53-0000000088	City of Baytown Green Infrastructure Program												
06-53-0000000089	City of Baytown Green Infrastructure Inclusion												
06-53-0000000090	City of Baytown Home Elevation and Acquisition Program												
06-53-0000000091	City of Baytown- Harden Existing Critical Facilities												
06-53-0000000092	City of Baytown Emergency Operations Center Improvements												
06-53-0000000093	City of Baytown Higher Standard Implementation												
06-53-0000000094	City of Baytown Structure Retrofitting and Relocation Program												
06-53-0000000095	City of Baytown- Harden Sewer Lift Stations												
06-53-0000000096	City of Baytown Flood Hazard Public Education Program												
06-53-0000000097	City of Baytown Community Rating System Classification Improvement												
06-53-0000000098	Brazoria Drainage District No. 4 New DCM Regulatory Guidelines												

Table 14 Identified Potentially Feasible Flood Management Strategies

FMS ID	FMS Name	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
06-53-0000000085	City of Houston- Harden Existing Critical Facilities					
06-53-0000000086	City of Houston Retention Pond Ordinance					
06-53-0000000087	Cit of Baytown Education and Awareness Program					
06-53-0000000088	City of Baytown Green Infrastructure Program					
06-53-0000000089	City of Baytown Green Infrastructure Inclusion					
06-53-0000000090	City of Baytown Home Elevation and Acquisition Program					
06-53-0000000091	City of Baytown- Harden Existing Critical Facilities					
06-53-0000000092	City of Baytown Emergency Operations Center Improvements					
06-53-0000000093	City of Baytown Higher Standard Implementation					
06-53-0000000094	City of Baytown Structure Retrofitting and Relocation Program					
06-53-0000000095	City of Baytown- Harden Sewer Lift Stations					
06-53-0000000096	City of Baytown Flood Hazard Public Education Program					
06-53-0000000097	City of Baytown Community Rating System Classification Improvement					
06-53-0000000098	Brazoria Drainage District No. 4 New DCM Regulatory Guidelines					

Appendix 4-D – List of Infeasible Actions

Infeasible Actions Identified

Document Name	Description	Sponsor	Reason for Infeasibility
City of Houston Hazard Mitigation Plan	Adopt and implement a retrofitting and maintenance program for city wide dams, bayous, rivers, and streams, including but not limited to installing gates to allow floodwaters to travel downstream.	City of Houston	Actions do not achieve flood risk reduction.
City of Baytown Hazard Mitigation Plan	Expand, enhance, and harden camera systems against high winds, flooding, and power outages by retrofitting, elevating, and adding to City Traffic Camera system, city security camera systems, TranStar TXDOT camera system, PD surveillance systems, and Fire/EMS camera systems	City of Baytown	Actions do not achieve flood risk reduction.
City of Baytown Hazard Mitigation Plan	Create policies or standards to protect natural landscape and plants. Support use of low-maintenance, drought and heat tolerant landscaping on city property.	City of Baytown	Actions do not achieve flood risk reduction.
City of Baytown Hazard Mitigation Plan	Create policies and standards that encourage developers to implement green infrastructure into the overall park development plan as a part of park development policies. These policies and standards could be incorporated into local policies such as the Park Dedication Policy for development of subdivisions and PIDs	City of Baytown	Actions do not achieve flood risk reduction.
City of Baytown Hazard Mitigation Plan	Improve and harden outdoor warning system by identifying new site locations to meet city growth, retrofitting poles to withstand higher-wind loads, and installing solar-panels to prevent power outages. Expand Community Warning System (sirens, reverse 911, Mass Notification, EAS, iPAWS, radio) to increase coverage to residents in hazard prone areas of the community.	City of Baytown	Actions do not achieve flood risk reduction.
City of Baytown Hazard Mitigation Plan	IH-10 Lift Station #1 Improvements: Rehabilitate and upsize current lift station that serves the Northwest Baytown growth and development. Project will consist of adding security grade fencing, upgrading current pumps, and force main to carry sanitary sewer to West District WWTP.	City of Baytown	Actions do not achieve flood risk reduction.
City of Baytown Hazard Mitigation Plan	Lannie Lift Station Improvements Project: Lannie Lift station pumps serve the west Chambers County service area but needs to be upgraded/upsized prior to taking any additional flow. This project will also include the creation of a Strategic Plan for the Northeast and East WWTP service areas to plan for future demands on the wastewater system. It also includes the creation of a hydraulic model for all four WWTP service areas to identify sources of Inflow and Infiltration (I&I) and potential solutions.	City of Baytown	Actions do not achieve flood risk reduction.
City of Baytown Hazard Mitigation Plan	Texas Avenue Lift Station Improvements: Texas Ave. Lift Station currently serves Baytown's Central WWTP service area and has difficulty servicing the area during rain events. This project would consist of replacing current electrical, backup generator, piping, security grade fencing, valves, and pumps at this lift station to appropriately serve the central service area.	City of Baytown	Actions do not achieve flood risk reduction.
City of Baytown Hazard Mitigation Plan	Abbe Addition Lift Station: The Abbe Lift Station (previously Cedar Bayou Community) experiences surcharging and high flows due to inflow and infiltration during wet weather events. The lift station needs to be upsized and rehabilitated to provide better service to the area and to reduce overflows during rain events and major tropical storms. Project will consist of adding security grade fencing, upgrading current pumps, and necessary gravity and force mains.	City of Baytown	Actions do not achieve flood risk reduction.
City of Baytown Hazard Mitigation Plan	Dykes Lift Station: Rehabilitate and upsize current lift station.	City of Baytown	Actions do not achieve flood risk reduction.
City of Baytown Hazard Mitigation Plan	Staples Lift Station: Rehabilitate and upsize current lift station.	City of Baytown	Actions do not achieve flood risk reduction.
City of Baytown Hazard Mitigation Plan	Cedar Landing Lift Station: Rehabilitate and upsize current lift station.	City of Baytown	Actions do not achieve flood risk reduction.
City of Baytown Hazard Mitigation Plan	IH-10 Lift Station #2 Force Main and Gravity System Improvements: This project includes improvements to I-10 Lift Station No. 2 to reduce sanitary sewer overflows and allow for development in the area. The upstream gravity pipe and downstream force main are also required to be increased in size to meet capacity requirements. This would reduce sanitary sewer overflows and allow for future development.	City of Baytown	Actions do not achieve flood risk reduction.
City of Baytown Hazard Mitigation Plan	Implement drainage and infrastructure improvement projects to mitigate flooding and protect residential property through the CDBG-DR Program. (Julia Ann Villa, Lincoln Cedars, East WWTP, and South Main Street, etc.)	City of Baytown	Actions do not achieve flood risk reduction.
City of Galveston Hazard Mitigation Plan	Rehabilitate the 1894 Bayline, for use as emergency water connection in the event of failure or damage of the water main	City of Galveston	Sponsor is not looking for TWDB grant funding.
City of Galveston Hazard Mitigation Plan	Develop and implement stormwater pump station to work in conjunction with storm sewer system and increasing capacity of existing storm sewer system (locations pending determination)	City of Galveston	Sponsor is not looking for TWDB grant funding.
City of Galveston Hazard Mitigation Plan	Develop and implement improvements to Galveston Ship Channel storm sewer system including but not limited to upgrades to outfalls, box culverts, sluice gates with sumps, and increases to capacity for future events.	City of Galveston	Sponsor is not looking for TWDB grant funding.
Grimes County Hazard Mitigation Plan	Buyout structures located in high flood-prone areas	Grimes County	Action overlaps with other regions.
Grimes County Hazard Mitigation Plan	Promote and educate local jurisdictions on methods to address how population changes and economic considerations, and future development impact exposure to natural hazards	Grimes County	Action overlaps with other regions.
Grimes County Hazard Mitigation Plan	Upgrade flood-prone roads to include resurfacing and restoring ditches and drainage to reduce flooding impact. Assess and upsize culverts as needed.	Grimes County	Action overlaps with other regions.
Grimes County Hazard Mitigation Plan	Conduct a drainage study of Mill Creek for future development reference.	Grimes County	Actions are not within Region 6.

Infeasible Actions Identified

Document Name	Description	Sponsor	Reason for Infeasibility
Grimes County Hazard Mitigation Plan	Improve Renfaire Drive drainage by improving creek channel and maintaining or upgrading street culverts.	Grimes County	Actions are not within Region 6.
Grimes County Hazard Mitigation Plan	Public outreach and education related to proper culvert cleaning and maintenance.	Grimes County	Action overlaps with other regions.
Chambers County Hazard Mitigation Plan	Implement an outreach and education campaign to educate the public on mitigation techniques for all hazards to reduce loss of life and property.	Chambers County	Sponsor is not looking for TWDB grant funding.
Chambers County Hazard Mitigation Plan	Project will clear obstacles, widen, and reshape ditches, and upgrade culverts to restore adequate drainage to mitigate flooding throughout all participating jurisdictions	Chambers County	Sponsor is not looking for TWDB grant funding.
Chambers County Hazard Mitigation Plan	Jurisdictions will work to create maps depicting coastal erosion in the County. The updated maps will also be made available to the public.	Chambers County	Sponsor is not looking for TWDB grant funding.
Chambers County Hazard Mitigation Plan	In the event of power loss/outage, a generator will be installed at each lift station and wastewater treatment plans, and City wells. and Public Works facility (Mon Belvieu).	Chambers County	Sponsor is not looking for TWDB grant funding.
Chambers County Hazard Mitigation Plan	An explosion at the salt dome could cause ground disturbance from seismic activity that could damage structures, damage water pipes and disrupt wells which is the main source of water supply for the City of Mont Belvieu. A seismic activity system around the complex would give advance data to the LEPC to protect and/or shut off pipes and water to avoid contamination or damage to infrastructure.	Chambers County	Sponsor is not looking for TWDB grant funding.
Chambers County Hazard Mitigation Plan	The City of Mont Belvieu proposes to construct a 15,000 square foot hardened facility community safe to ensure first responders and essential employees have a safe, secure location during hazard events. The centralized, elevated location will allow personnel to carry out response, operation, and recovery tasks identified in the County's Emergency Management Plan. It will also ensure that these individuals are able to access the tools, equipment, and vehicles necessary to begin these activities. The building will be built to FEMA minimum building code requirements (FEMA P 361 & ICC 500) at a site currently owned by the City	Chambers County	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Harden/retrofit critical facilities and infrastructures to hazard-resistant levels	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Acquire and install generators with hard wired quick connections at all critical facilities and infrastructure.	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Restrict future development in high-risk areas.	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Incorporate higher standards for hazard resistance in local application of the building code	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Prohibit animal shelters in known hazard areas. Educate residents on shelters that will offer care and assistance during extreme hazards events.	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Require standards for burial of electrical, telephone, cable lines and other utilities in new developments	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Bury existing utility lines	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Adopt and implement a routine tree trimming program that clears tree limbs near power lines and/or hanging in right-of-way; Remove dead trees from right-of way and drainage systems on a scheduled basis.	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Adopt and implement a program for clearing debris from bridges, drains, and culverts as well as roadside ditches.	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Retain and maintain natural vegetation in stormwater channels	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Adopt and implement a debris removal program that clears roadways and impact of critical facilities on a scheduled basis. Ensure city has accessible to necessary equipment to maintain debris removal	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Replace asphalt and concrete pavement sections and base material depending along Frey Rd within the Edgebrook neighborhood. New pavement markings will be implemented at various levels depending on the extent of roadway surface rehabilitation	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Improve Intersection safety at various locations in the Edgebrook Super Neighborhood: Conduct feasibility analysis for intersection improvements and install protected turn lanes with use of green infrastructure such as bioretention planters.	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Improve sidewalks to connect gaps at various locations. Minnesota St. N. of Hinds; Rodney St. between Gilpin and Hinds; Theta St between Gilpin and Hinds	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Improve stormwater drainage within the Edgebrook Neighborhood	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Improve Flood Resilience with Halls Bayou improvements: Assess and implement necessary improvement to correct the erosion along the banks and removing the sediment that builds up on the bottom to allow better water flow.	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Yale Stormwater Detention Basin: Construct additional stormwater detention facilities to reduce flooding during future events in the Independence Heights neighborhood which will increase flood resiliency.	City of Houston	Sponsor is not looking for TWDB grant funding.

Infeasible Actions Identified

Document Name	Description	Sponsor	Reason for Infeasibility
City of Houston Hazard Mitigation Plan	Promote and Incorporate community health rooms in fire stations.	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Implementing an education and awareness campaign to educate residents and businesses of hazards that threaten the area and mitigation measures they can take to reduce risk.	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Create a post-disaster program / protocol to follow-up with residents, learn where resources are still needed and recovery may be slowing, and to provide an ongoing pipeline for sharing information about recovery efforts, potential funding and social support opportunities, and other such recovery information directly with the public. Program would be integrated with regular social media platforms, providing regular notifications to users whose geolocation places them in the Houston area and its outlying counties. The platforms will not be hosting this effort but be promoting this effort. Consider development of an app or website where users can provide information which can be shared with data analysts and processes can be put into place to help collect, aggregate, and disseminate data in real-time to rescue efforts, local leaders, and others who are in a position to provide help.	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Improve data collection by creating a system that addresses incoming data in real time. Create a program / protocol to disseminate information during a disaster, and in the recovery period following a disaster	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Develop and conduct retrofitting projects at the Lake Houston Dam	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Conduct diversion and bridge and channel improvements at North Canal.	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Consolidate and decommission wastewater facilities and develop offsite mitigation projects, such as detention basins and elevation, for flood mitigation.	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Conduct Keegans Bayou channel improvements and develop detention pond at the Ruffino Hills landfill.	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Implement flood risk reduction projects identified through the Harris County Flood Control District's (HCFCD) ongoing Capital Improvement Program (CIP). Flood control measures will include cost-effective structural drainage improvements as well as acquisition/demolition projects.	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Implement a community outreach and awareness program, including State of Texas Emergency Assistance Registry (STEAR) program, Senate Bill (SB)-968, community event activations, social media campaigns, e-mail communications, website blogs, inclusion in Disaster Guides, update preparedness website and other to educate citizens of hazards that may threaten the community and provide mitigation measures to reduce potential damages and injuries.	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Utilize existing GIS data to identify large facilities to serve as potential refuges of last resort, either during or after a disaster. Develop vulnerability assessment for identified facilities. Conduct site visits to evaluate structural capabilities and resistance to identified hazards. Develop prioritized implementation procedures for use of these facilities during or after disaster events. Identify and implement required retrofit enhancements needed for each facility identified. Identify the capacity of each facility to house refugees	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Implement a community outreach and awareness program notifying homebuyers of the areas that have had flooding in the past. Notify them of the damages caused by floods and the challenges homeowners face after a disaster. Discuss the importance of flood insurance and pre-disaster preparations.	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Create and Implement reconstruction program to bring buildings up to code and protect from hazardous events.	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Home Repair Program: Repair or reconstruction of homes for low- and moderate-income homeowners to a hazard resistant level.	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Improve/enhance flood vulnerability data, including CTP status, updating of H&H study, alternative analysis and Benefit-Cost Analysis. Enhance planning using surveys to more accurately define flood vulnerability.	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Damage Identification Tracking and Mitigation Alternative Development Tool – Develop a GIS based damage-tracking tool. With use of this tool and Houston 1-2-3 will allow the City of Houston the capabilities to develop effective mitigation actions, measures, or strategies based on actual documented disaster data	City of Houston	Sponsor is not looking for TWDB grant funding.
City of Houston Hazard Mitigation Plan	Resilience Hubs: Work with individual communities to retrofit and/or construct facilities to serve as resilience hubs during extreme weather events and/or emergencies.	City of Houston	Sponsor is not looking for TWDB grant funding.
Brazoria County Hazard Mitigation Plan	Street drainage improvements: widen and reshape ditches, and upgrade culverts to restore adequate drainage to mitigate flooding in Manvel neighborhoods.	Brazoria County	Sponsor is not looking for TWDB grant funding.
Brazoria County Hazard Mitigation Plan	All road drainage improvements, including storm sewer rehabilitation and ditch deepening.	Brazoria County	Sponsor is not looking for TWDB grant funding.
Brazoria County Hazard Mitigation Plan	State Highway 6 drainage improvements, including storm sewer upgrades to meet current capacities, ditch deepening, and sub regional detention ponds. Project will also widen and reshape ditches, and upgrade culverts	Brazoria County	Sponsor is not looking for TWDB grant funding.
Brazoria County Hazard Mitigation Plan	Gates Loop subdivision drainage improvements including deepening and widening ditches around Gates Loop and Sandy Point Rd	Brazoria County	Sponsor is not looking for TWDB grant funding.

Infeasible Actions Identified

Document Name	Description	Sponsor	Reason for Infeasibility
Brazoria County Hazard Mitigation Plan	Reed Lane, Sherri Circle, Booth Plummer Road and 1128 South of Hwy 6, drainage improvements, including storm sewer rehabilitation and ditch deepening	Brazoria County	Sponsor is not looking for TWDB grant funding.
Brazoria County Hazard Mitigation Plan	Improve GIS database to include repetitive loss properties areas and flooded structure data. Data to be used for future drainage infrastructure planning and to provide outreach and emergency services to residents in substantial risk zones.	Brazoria County	Sponsor is not looking for TWDB grant funding.
Brazoria County Hazard Mitigation Plan	Purchase and install backup 60KW generator to power Emergency Operations Command Center during power outages	Brazoria County	Sponsor is not looking for TWDB grant funding.
Brazoria County Hazard Mitigation Plan	Partner with local Drainage District to widen and reshape drainage ditches, and upgrade culverts to restore adequate drainage to mitigate flooding	Brazoria County	Sponsor is not looking for TWDB grant funding.
Brazoria County Hazard Mitigation Plan	Conduct an engineering survey to establish proper drainage for 24 Homes in the Flood Zone.	Brazoria County	Sponsor is not looking for TWDB grant funding.
Brazoria County Hazard Mitigation Plan	Preserve natural lands and green space to reduce the impacts of natural hazards. Up to 35,000 acres of land tracts could be purchased from willing sellers for their natural ecosystem services. Including floodwater storage, groundwater recharge, erosion control, drought mitigation, and wildfire damage reduction. The land will be converted to parks, wildlife management areas, community forests, and/or other public open spaces	Brazoria County	Sponsor is not looking for TWDB grant funding.
City of Baytown Hazard Mitigation Plan	Integrate the hazard mitigation plan into other plans, ordinances and programs that dictate land use decisions in the community, including Capital Improvement Programs, Master Plans, and Strategic Plans.	City of Baytown	Sponsor is not looking for TWDB grant funding.
City of Baytown Hazard Mitigation Plan	Actively participate in the plan maintenance protocols outlined in Section 21 of this hazard mitigation plan.	City of Baytown	Sponsor is not looking for TWDB grant funding.
City of Baytown Hazard Mitigation Plan	Continue to maintain good standing and compliance under the NFIP through implementation of floodplain management programs that, at a minimum, meet the NFIP requirements: - Enforce the flood damage prevention ordinance. - Participate in floodplain identification and mapping updates. - Provide public assistance/information on floodplain requirements and impacts.	City of Baytown	Sponsor is not looking for TWDB grant funding.
City of Baytown Hazard Mitigation Plan	Actively participate in and support the implementation of the area-wide actions identified in this plan.	City of Baytown	Sponsor is not looking for TWDB grant funding.
Walker County Hazard Mitigation Plan	Prevent the loss of life and property with a better notification system. There is a Multijurisdictional benefit because it would be located on the Madison County and Walker County border.	Walker County	Action overlaps with other regions.
Walker County Hazard Mitigation Plan	Install permanently mounted generator on a concrete pad at all critical facilities in Walker County, including within the City of Riverside and the City of New Waverly, to provide continuity of government,	Walker County	Action overlaps with other regions.
Walker County Hazard Mitigation Plan	Construct an emergency animal shelter that will house animals both large and small, including livestock, for use during events where human sheltering will be needed.	Walker County	Action overlaps with other regions.
Walker County Hazard Mitigation Plan	Install a permanently mounted 60kw generator on a concrete pad at KSAM Radio Station to provide continuous broadcast services to citizens of Walker County.	Walker County	Action overlaps with other regions.
Walker County Hazard Mitigation Plan	Purchase topographical maps and aerial photography for Walker County to identify flood hazards and wildfire hazard areas. Notify and educate public in these areas of risk, and work to develop mitigation actions to address vulnerable areas	Walker County	Action overlaps with other regions.
Walker County Hazard Mitigation Plan	Finish fiber optic communications project	Walker County	Action overlaps with other regions.
Walker County Hazard Mitigation Plan	Channel improvements made to Tributary A in order to correct drainage issues that result in flooding along 11th Street.	Walker County	Action overlaps with other regions.
Walker County Hazard Mitigation Plan	Construction of enhancements to existing McDonald Drainage system to alleviate areas flooding	Walker County	Action overlaps with other regions.
Walker County Hazard Mitigation Plan	Purchase of Mobile Command Center (action 2011-11, modified)	Walker County	Action overlaps with other regions.
Walker County Hazard Mitigation Plan	Install hardened communications tower and necessary hardware and software for fire stations 1 and 4 to maintain continuity of critical services. This infrastructure project will be accomplished with the intent of ensuring resiliency against natural hazards that are associated with structural damage caused by high winds, lightning, hail, etc. Expansive soils can also be mitigated through the use of higher standards in soil compaction.	Walker County	Action overlaps with other regions.
Walker County Hazard Mitigation Plan	This effort will enhance the phase 1 plan document through further analysis and more comprehensive analysis. This effort can also explore the effective use of surface water, once collected, city of Huntsville mdp	Walker County	Action overlaps with other regions.
Walker County Hazard Mitigation Plan	Second phase of wildland vegetation reduction in various high hazard areas within the City where undeveloped areas are intermingled with developed lots. This project will not only reduce hazardous fuel that is susceptible to ignition from lightning or that can lead to wildland fire, but also reduce the amount of debris resulting from hazards associated with high winds.	Walker County	Action overlaps with other regions.
Walker County Hazard Mitigation Plan	Provide a drone equipped with thermal imaging capabilities to assist in wildfires, large structure fires, water rescue, search and rescue, surveying damage from hazards, and training.	Walker County	Action overlaps with other regions.

Infeasible Actions Identified

Document Name	Description	Sponsor	Reason for Infeasibility
Walker County Hazard Mitigation Plan	Increase public education on mitigation techniques for all hazards. Distribute information regarding flood hazards, SFHA's, and potential mitigation measures using the local newspaper, utility bill inserts, inserts in the phone book, a City hazard awareness website, and an educational program for school-age children or "how to" classes in retrofitting by local merchants. Integrate "Disaster Resistance Education" into the public school curriculum. Provide public education on the importance of maintaining the ditches.	Walker County	Action overlaps with other regions.
Walker County Hazard Mitigation Plan	Update existing development standards to require that new publicly-owned structures are structurally reinforced against natural hazards (when cost-effective) to include, low-flow water units for drought, energy efficient windows and doors for extreme heat, reinforced roofs for withstanding the forces of wind related to windstorms, tornadoes and hurricanes/tropical storms, ice, snow and hail, increased freeboard to build above the base flood elevation to mitigate flooding and flooding that could result from dam failure, lightning grounding systems, increased soil compaction for expansive soils and vegetation control and perimeter clearance for wildfires.	Walker County	Action overlaps with other regions.
Walker County Hazard Mitigation Plan	Drainage project for Kate Barr Ross Park, which is designated as a staging area for National Guard and Utility companies during large-scale hazard events. The current drainage system is insufficient and results in flooding within the park.	Walker County	Actions are not within Region 6.
Walker County Hazard Mitigation Plan	Construction of drainage/channelization/ storage solutions that will alleviate flooding within the Elkins Lake community	Walker County	Action overlaps with other regions.
Walker County Hazard Mitigation Plan	Construction of underground drainage structure storage solutions that will alleviate flooding along Eastham Drive within the Forest Hill Subdivision.	Walker County	Action overlaps with other regions.
Walker County Hazard Mitigation Plan	Flood mitigation improvements along River Oaks Drive at Lake Crossing to alleviate inundation of homes and streets critical to ingress and egress	Walker County	Action overlaps with other regions.
Walker County Hazard Mitigation Plan	Mitigation activities to mitigate overflow along spillways and embankments at the Dawson Dam.	Walker County	Actions are not within Region 6.
Walker County Hazard Mitigation Plan	Construction project to mitigate major erosion along the confluence of 2 creeks within Eastham Thomas Park between 7th and 10th streets	Walker County	Actions are not within Region 6.
Walker County Hazard Mitigation Plan	Installation of a debris removal grinder in support of mitigation activities. The equipment will reduce the impact of fallen branches on infrastructure during various hazard events. It will process debris from floodways in order to eliminate encroachments. Vegetative fuels will be cleared to reduce ignition from lightning and resulting wildfires.	Walker County	Action overlaps with other regions.
Walker County Hazard Mitigation Plan	Provide communication capabilities to first responders and the public during cell tower outages or during large events that may overwhelm the current communication systems.	Walker County	Action overlaps with other regions.
Walker County Hazard Mitigation Plan	Modify building standards to regulate subdivision design to ensure adequate ingress/egress, road widths, road grade, lot size and street sign placement and materials to ensure ease of evacuation and firefighting. Also add factors to ensure that construction materials and utility placement reduces risk to fire.	Walker County	Action overlaps with other regions.
Walker County Hazard Mitigation Plan	Rewrite, improve, and implement new local floodplain regulations. Project to include a public information campaign on regulatory awareness.	Walker County	Sponsor is not looking for TWDB grant funding.
Walker County Hazard Mitigation Plan	Generate base flood elevation data for flood map revisions, use a floodplain study to identify future mitigation activities to improve water ways and flood carrying capacities for watersheds affecting the City's municipal areas, to include approximately 4 miles of floodway in New Waverly	Walker County	Sponsor is not looking for TWDB grant funding.
Fort Bend County Hazard Mitigation Plan	The County will implement a comprehensive Brazos Flood Study and will document and map areas that cause flooding issues. The County will work with affected municipalities to implement the best and most cost-effective flood prevention infrastructure to reduce flooding issues	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The County will work with the State and municipalities affected to conduct a flood study to determine the cause of flooding. The County will hire an engineer to determine what flood mitigation techniques need to be implemented in all areas.	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The County will work with municipalities affected to conduct an erosion study along the Brazos River and will implement the most cost-effective solution to reduce and mitigate erosion	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The County will work with municipalities to communicate about available sheltering procedures and evacuation procedures.	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The County will implement a yearly outreach program to all residents to inform them of how to respond to and mitigate hazards and will integrate shelter/evacuation information so that all County residents are aware of the options.	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The County will conduct outreach to the RL/SRL property owners and provide information on mitigation alternatives. After preferred mitigation measures are identified, collect required property owner information and develop a FEMA grant application and BCA to obtain funding to implement acquisition/purchase/moving/elevating residential homes in flood-prone areas that experience frequent flooding (high-risk areas).	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The County will conduct a feasibility assessment to determine what additional floodproofing measures are needed at these facilities to protect each to the 500-year flood level. Options include: • Elevation of facility • Floodproofing of facility • Mobile flood-barriers Once the most cost-effective option is identified, the County will carry out the option.	Fort Bend County	Action overlaps with other regions.

Infeasible Actions Identified

Document Name	Description	Sponsor	Reason for Infeasibility
Fort Bend County Hazard Mitigation Plan	Update the Continuity of Operations Plan-The County will integrate the HMP into the Continuity of Operations Plan and annex update	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The County will develop a list of critical facilities that require backup power to be able to operate during power outages. Once identified, the County will conduct engineering studies to determine the correct sized generators that each facility would need. The County will then acquire funding to purchase and install needed generators.	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The County will integrate the HMP into its Disaster Debris Management update.	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The solution includes excavating and/or lowering portions of the existing Sweetwater Country Club or other green spaces to provide additional flood storage. The Sweetwater Country Club is an existing flood storage area with an easement over the golf course with natural storage that existed before the development of the area	Fort Bend County	Actions are not within Region 6.
Fort Bend County Hazard Mitigation Plan	Working with the City of Sugar Land and Fort Bend County, develop outreach tools to help residents understand their flood risk and educate themselves on what it means to live behind a levee. This includes providing information on what levels the levees protect and what happens when it rains within the levee. This tool would also assist with understanding when a levee would be excavated and what residents and businesses should do when an evaluated order is issued.	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	A flood warning system in the District could be published on the District's website notifying the residents and the City of Sugar Land on the conditions of the internal flood storage and notify drivers of impassable streets. There is a City of Sugar Land Fire Station that is impacted when Commonwealth is unpassable.	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Develop a long-range erosion protection plan to monitor erosion conditions and standards for repairing the erosion promptly. The plan would also review permanent erosion control measures that could be implemented to reduce the risk of erosion	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Using the latest modeling techniques and methodologies, the District will update its master drainage plan for all channels within the District. This plan will identify areas with increased flood risk and provide detailed mitigation options to improve the drainage system and reduce the flood risk.	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Perform an erosion and sediment study to evaluate the main sources of the sediment transport and identify mitigation actions to reduce the amount of silt and sand from depositing within critical flood control facilities.	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Working with Fort Bend County, develop outreach tools to help residents understand their flood risk and educate themselves on what it means to live within the Barker Reservoir Flood Pool. This includes providing information on how the levels of the reservoir negatively affect roadways and residential property. This tool would also assist with understanding when they would be excavated and what residents and businesses should do when an evaluated order is issued.	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The City will provide a class/seminar for home/business owners that provides them with Do It-Yourself options for performing mitigation for the identified hazards of concern in their own homes and properties	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The City will conduct a flood study and implement a stormwater system that limits flooding in the area.	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The City will implement a weather radio installation at public buildings to be able to notify people of potential hazards. City of Fulshear	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The City will conduct outreach to the RL/SRL property owners and provide information on mitigation alternatives. After preferred mitigation measures are identified, collect required property owner information and develop a FEMA grant application and BCA to obtain funding to implement acquisition/purchase/moving/elevating residential homes in the flood prone areas that experience frequent flooding (high-risk areas) City of Fulshear	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The City will develop a Substantial Damage Management Plan, following the six-step planning process in 2021 Developing a Substantial Damage Management Plan (https://crsresources.org/files/500/ developing _subst_damge_mgmt_plan.pdf). This plan will outline responsibilities for Substantial Damage determinations, determining market value, and permit approval processes following a disaster event. City of Fulshear	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The City will work to acquire necessary funding to install a hazard warning system that operates using outdoor sirens and notifications on cell phones to protect their residents. City of Arcola	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Comprehensive Emergency Management Plan that will focus on the natural and manmade hazards that impact the City. This plan will integrate the Hazard Mitigation Plan into it.City of Arcola	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The City will work with FEMA and the County to develop future condition maps and resources so that the City may keep plans and regulations up to code with projected conditions of population and building stock exposed to increasing hazard events. City of Arcola	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The City will work with critical facility owners to determine what additional floodproofing measures are needed at these facilities. Options include: • Elevation of facility • Floodproofing of facility • Mobile flood barriers Once the most cost effective option is identified, the City will help the critical facility owners carry out the option City of Arcola	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The City of Stafford Public Works will designate a local floodplain manager who will maintain and achieve Certified Floodplain Manager certification.	Fort Bend County	Action overlaps with other regions.

Infeasible Actions Identified

Document Name	Description	Sponsor	Reason for Infeasibility
Fort Bend County Hazard Mitigation Plan	The City of Stafford Public Works will work with FEMA to update the current flood maps	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The City Public Works will increase the capacity of the stormwater drainage system to reduce flooding and provide grassy swales along the roadsides to combat erosion.Stafford	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The City Office of Emergency Management will work with the City Public Works to improve roof coverings and retrofitting buildings with load-path connectors to strengthen structural frames. Stafford	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The City will develop a Debris Management Plan. Stafford	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The City will work with FEMA and the County to develop future condition maps and resources so that the City may keep plans and regulations up to code with projected conditions of population and building stock exposed to increasing hazard events.Stafford	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The City will develop a Substantial Damage Management Plan, following the six step planning process in 2021 Developing a Substantial Damage Management Plan (https://crsresources.org/files/500/developi ng_subst_damge_mgmt_plan.pdf). This plan will outline responsibilities for Substantial Damage determinations, determining market value, and permit approval processes following a disaster event.Stafford	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Conduct a generator study to see what size and types of generators are needed at each facility. Install backup power in the EOC; Wastewater Treatment Plant; Water Well #3 and the Police Department/City Hall building once the study has been completed. Meadows Place	Fort Bend County	Sponsor is not looking for TWDB grant funding.
Fort Bend County Hazard Mitigation Plan	The City will implement public education through social media posts, create a website for Hazard Mitigation/Disaster Awareness and Recovery, and will create an informative webpage relating to availability of Flood Insurance. Meadows Place	Fort Bend County	Sponsor is not looking for TWDB grant funding.
Fort Bend County Hazard Mitigation Plan	The City will work with the County to develop an interlocal agreement with neighboring jurisdictions for evacuation procedures. Meadows Place	Fort Bend County	Sponsor is not looking for TWDB grant funding.
Fort Bend County Hazard Mitigation Plan	The City will ensure that schools will develop a School Disaster Response Plan, that integrates the updated HMP, to safely evacuate, shelter, and protect the people located in the schools.	Fort Bend County	Sponsor is not looking for TWDB grant funding.
Fort Bend County Hazard Mitigation Plan	The city will create a project description human resources list identifying Mitigation Projects and other efforts that reduce natural Hazard risks. Meadows Place	Fort Bend County	Sponsor is not looking for TWDB grant funding.
Fort Bend County Hazard Mitigation Plan	The City will work County agencies to ensure that the drainage system remains cleaned out to reduce flooding issues. Meadows Place	Fort Bend County	Sponsor is not looking for TWDB grant funding.
Fort Bend County Hazard Mitigation Plan	The City will conduct outreach to the RL/SRL property owners and provide information on mitigation alternatives. After preferred mitigation measures are identified, collect required property owner information and develop a FEMA grant application and BCA to obtain funding to implement acquisition/purchase/moving/elevating residential homes in the flood prone areas that experience frequent flooding (high risk areas). Meadows Place	Fort Bend County	Sponsor is not looking for TWDB grant funding.
Fort Bend County Hazard Mitigation Plan	The City will conduct a flood study at these intersections and will implement the most cost effective measure. Meadows Place. W. Airport Blvd at S. Kirkwood Rd. & W. Airport Blvd. at S.W.Freeway	Fort Bend County	Sponsor is not looking for TWDB grant funding.
Fort Bend County Hazard Mitigation Plan	Increase public awareness of natural hazards and hazardous areas; distribute information regarding hazards and potential mitigation measures to the public. Promotional sources would include a tab on the City website, additional social media, and public education programs that inform the public of the hazards of concern and how to prepare for them. Missouri City	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The City will perform a study to locate the specific problem areas and evaluate what method would best solve each flooding issue and implement that method. Missouri City. Pine Meadow / S Cravens Rd, Bolton Estates, Lexington Village, Peninsula/ Lake Olympia, Oakwick Forest	Fort Bend County	Actions are not within Region 6.
Fort Bend County Hazard Mitigation Plan	The City will conduct a study to determine the proper size of culverts that are needed to handle the amount of drainage that passes through the Watts Plantation Road Culvert. Missouri City. Watts Plantation Rd	Fort Bend County	Actions are not within Region 6.
Fort Bend County Hazard Mitigation Plan	The City will conduct generator studies to determine what size generators are needed to power these facilities so that they may operate during hazard events and can also operate as emergency heating/cooling shelters. Missouri City. City Hall Complex, Rec and Tennis Center, Parks and Maintenance Building.	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The City will conduct drainage and channel studies to determine proper flood mitigation techniques and will implement them. Missouri City. Mustang Bayou Channel, GCWA Canal, Briscoe Canal Flume, Lower Oyster Creek, North East Oyster Creek Drainage, Gregory & McLain	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The City will integrate the current HMP into an updated Continuity of Operations Plan. Missouri City	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The City will implement an Evacuation Plan that addresses the hazards of concern and integrates the LIDs. Missouri City	Fort Bend County	Action overlaps with other regions.

Infeasible Actions Identified

Document Name	Description	Sponsor	Reason for Infeasibility
Fort Bend County Hazard Mitigation Plan	The City will conduct outreach to the RL/SRL property owners and provide information on mitigation alternatives. After preferred mitigation measures are identified, collect required property-owner information and develop a FEMA grant application and BCA to obtain funding to implement acquisition/purchase/moving/elevating residential homes in the flood-prone areas that experience frequent flooding (high-risk areas). Missouri City	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Problem: The following critical facilities are located in the special flood hazard area and were built before the current flood standards were adopted by the City: • Next Level Urgent Care Sienna • Elkins • River Pointe Church Missouri City Campus • Palmer Plantation WWTF • Drainage Ditch Solution: The City will conduct a feasibility assessment to determine what additional floodproofing measures are needed at these facilities to protect each to the 500-year flood level. Options include: • Elevation of facility • Floodproofing of facility • Mobile flood barriers Once the most cost-effective option is identified, the City will carry out the option.	Fort Bend County	Actions are not within Region 6.
Fort Bend County Hazard Mitigation Plan	The City will complete a detailed structural/engineering survey of the public facilities in the City to ensure their stability with respect to resisting impacts from the hazards of concern. The City will record potential funding streams of each project and will record the results and ensure that stability for all public facilities is achieved.	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Purchase and install a generator for the Imperial Park Recreation Center. This center serves as an emergency shelter for residents. Sugarland	Fort Bend County	Actions are not within Region 6.
Fort Bend County Hazard Mitigation Plan	Purchase and install a generator for the T.E. Harman Center. This center serves as an emergency shelter for residents. Sugarland	Fort Bend County	Actions are not within Region 6.
Fort Bend County Hazard Mitigation Plan	Purchase and install emergency notification systems at all City of Sugar Land schools to ensure they have the newest technology, including integrated siren and strobes and alert beacons. Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Develop a program to lower the CRS number from 7 to 6. Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The City will provide guidance to the public in shelter-in-place procedures. Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Project consists of 13 sites – 4 are in City of Sugar Land. Project includes design and construction to prevent additional erosion along the Brazos River that is compromising stability of the Levees. Sugarland	Fort Bend County	Actions are not within Region 6.
Fort Bend County Hazard Mitigation Plan	Design and construct a new channel to connect to LID#2. This will help reduce or eliminate flooding to 250+ homes in this area. Sugarland	Fort Bend County	Actions are not within Region 6.
Fort Bend County Hazard Mitigation Plan	Improve and upgrade drainage in the Covington Woods West area of the City. This will help reduce street ponding. Sugarland	Fort Bend County	Actions are not within Region 6.
Fort Bend County Hazard Mitigation Plan	The proposed project includes the design and construction of a drainage solution (diversion channel and wet detention pond) to reduce the risk of flooding and associated damages to the Oyster Creek area and reduce the economic impact to critical facilities. The proposed project will remove the City of Sugar Land Airport, the Police Training Academy and the Central Unit Prison properties from the 100-year (Atlas 14) floodplain while minimizing any adverse downstream impacts. The project includes the construction of a 95 acres wet detention pond that will enhance and protect wetlands and park land in the project area. Sugarland	Fort Bend County	Actions are not within Region 6.
Fort Bend County Hazard Mitigation Plan	Survey and installation of the benchmarks. Implement flood protection plan (describe additional benefits and applications) modeling to construction. Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Construct new EOC and Dispatch Center – The current EOC and Dispatch Center is over 25 Years old. Due to increased growth of the City and risk over the past 25 years, a larger facility is needed to address capacity needs. The new facility will be located on property directly behind the current Police Station within the flood plain. Sugarland	Fort Bend County	Actions are not within Region 6.
Fort Bend County Hazard Mitigation Plan	During heavy rainfall events, the roads to the WWTP become flooded and access to the facility can only be obtained by boat. The projects propose is to elevate the access roads to the WWTP. Sugarland	Fort Bend County	Actions are not within Region 6.
Fort Bend County Hazard Mitigation Plan	Purchase and install flood walls to protect chemical storage facilities at the WWTP that store hazardous materials utilized in the treatment process. Sugarland	Fort Bend County	Actions are not within Region 6.
Fort Bend County Hazard Mitigation Plan	Develop a home elevation and/or acquisition program to prioritize the reduction of flood risk for severe repetitive loss properties and those structures in the SHFA. Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Develop a program to prioritize the flood/dry proofing of critical facilities in the SHFA. Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Elevate lift stations, critical assets and electrical components out of risk to flooding. Sugarland	Fort Bend County	Actions are not within Region 6.
Fort Bend County Hazard Mitigation Plan	City-wide Flood Prevention and Drainage Needs Assessment to identify drainage projects and additional flood mapping needs. Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Limiting the percentage of allowable impervious surface for new development and re-developed sites City-wide. Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Coordinating with developers to construct onsite retention basins for excessive stormwater and a firefighting water source. Sugarland	Fort Bend County	Action overlaps with other regions.

Infeasible Actions Identified

Document Name	Description	Sponsor	Reason for Infeasibility
Fort Bend County Hazard Mitigation Plan	High Water Rescue Vehicle to be deployed during emergency events to support first responder efforts and residents with rescue & evacuation.	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Update 2014 Citywide LIDAR to update the City's flooding and ponding models. Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Obtain ballistic Resistant glass/Film for Critical Facilities. Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Installing hardening measures for Critical facilities – Emergency Operations Center, fire stations, police, City Hall, WWTP to be more resistant wind, hurricane and hail. Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Traffic Lights stabilizer, minimize cracking in mast arms and increase damage resistance in high wind events. Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Hurricanes evacuation routes and Shelters of Last Resort - needs assessment and education and outreach program to identify and accommodate sheltering people who are stalled in traffic on a main evacuation route from the coastal communities and to communicate designated shelters and evacuation routes as a result of the study. Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Update SCADA system to include data on dams located within the City. Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Establishing a "green infrastructure" program to link, manage, and expand existing parks, preserves, greenways, etc. (easements). Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Update/ Develop data base to define and identify critical facilities for vulnerable populations such as Nursing homes and medical service providers. Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Develop quarterly program to inform homeowners of hazard risk, hazard reducing materials, techniques, and funding opportunities [Water saving techniques (rain barrels, appliance/ rebate programs for smart meters) and Hail resistance materials and insurance incentives]. Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Purchase a drone with the appropriate camera to perform regular assessments of impacted areas for data collection related to mitigation efforts. Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Purchase and install software to manage and analyze collected drone data in relation to mitigation efforts. Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	All parties (county, City, LID's) to establish design standards to address sloughing and repair of the channel for Ditch H. Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	During flooding events, the roadway between the Surface Water Treatment Plant and the fore bay/intake area become flooded, preventing access to the fore bays and intake for operations and maintenance. The City will elevate roadway between the SWTP main area and fore bays to deter flooding. Sugarland	Fort Bend County	Actions are not within Region 6.
Fort Bend County Hazard Mitigation Plan	Upgrade/Replace generator with an appropriately sized generator at Homeward Way Groundwater Production Plant. Current generator capacity is insufficient to power plant during utility power loss. Sugarland	Fort Bend County	Actions are not within Region 6.
Fort Bend County Hazard Mitigation Plan	Develop and establish consistent code requirements and enforcement between the City's building codes and development in the ETJ. Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Install and replace generators to increase capacity of available back-up power at all 4 WWTP that services the City.	Fort Bend County	Actions are not within Region 6.
Fort Bend County Hazard Mitigation Plan	Purchase and construct shelter for WWTP staff who must remain at the facility during disaster events to ensure continuous operations at the facility. Sugarland	Fort Bend County	Actions are not within Region 6.
Fort Bend County Hazard Mitigation Plan	Purchase and install right angle drives and generators at 6 remote well locations that provide water supply, located throughout the City. Sugarland	Fort Bend County	Actions are not within Region 6.
Fort Bend County Hazard Mitigation Plan	Purchase and install (3) 750kw generators at the surface water treatment plant which provides water supply to the City. Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Purchase and install generators at 10 high sites around the City to support communications and IT infrastructure during disaster events. Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Purchase 45 portable generators for traffic signals. Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	Purchase 1000- gallon fuel trailer to provide fuel service to various generator sites located throughout the City. Sugarland	Fort Bend County	Action overlaps with other regions.
Fort Bend County Hazard Mitigation Plan	The City will perform an engineering study throughout the City with a focus on the areas of concern listed above. Once a cost effective solution is identified, the City will implement that solution.	Fort Bend County	Actions are not within Region 6.
Harris County Hazard Mitigation Plan	Where appropriate, support retrofitting, purchase or relocation of structures located in hazard areas, prioritizing those that have experienced repetitive losses and/or are located in high- or medium-risk hazard areas	Harris County	Sponsor is not looking for TWDB grant funding.

Infeasible Actions Identified

Document Name	Description	Sponsor	Reason for Infeasibility
Harris County Hazard Mitigation Plan	Develop public education program for home owners on flood hazards and flood mitigation techniques to reduce flood damages to property.	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Improve Underperforming Stormwater System Collection/Conveyance Components to ensure system functions in accordance with design to mitigate flooding; including installation of submersible pumps.	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Acquisition of Repetitive Flood Loss Property identified in the Regional Stormwater Master Plan.	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Improve City of Baytown CRS Classification from Class 7 to Class 6	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Expand Community Warning System (sirens, reverse 911, Mass Notification, EAS, iPAWS, radio) to increase coverage to residents in hazard-prone areas of the community	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Installation of generators/power back-up systems on Critical Public Infrastructure	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Integrate the hazard mitigation plan into other plans, ordinances and programs that dictate land use decisions in the community, including Capital Improvement Programs, Master Plans, and Strategic Plans	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Implement drainage and infrastructure improvement projects to mitigate Flood and protect residential property through the CDBG DR Program. (Julia Ann Villa, Lincoln Cedars, East WWTP, and South Main Street, etc.)	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Continue to maintain good standing and compliance under the NFIP through implementation of Floodplain management programs that, at a minimum, meet the NFIP requirements, Enforce the Flood damage prevention ordinance, Participate in Floodplain identification and mapping updates, Provide public assistance/information on Floodplain requirements and impacts	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Actively participate in and support the implementation of the six area-wide actions identified in Volume 1 of this plan.	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Create Stormwater Retention Ponds to increase storage capacity as identified in Master Drainage Plan	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Elevate Electronic Controls for Sewer Lift Stations 24” above 500-year NFIP Floodplain	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Install Early Warning lightning detection system for critical infrastructure (EOC, 911 Communications, and Pirates Bay Water Park).	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Expand city warning system to include Flood stage warning – signs or water level indicators at three boat launches, Boondoggles restaurant and boat repair yard (formerly ID #2014ELLAGO008)	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	2022-Harris County Flood Control District-FCD231 — Upgrade the storm sewer system serving a single-family residential area (Sherwood Oaks). The storm sewer system was designed and constructed over 50 years ago and does not meet current engineering standards resulting in frequent flooding.	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	F-55, U102-00-00-FP001, Planning, Right-Of-Way Acquisition, Design, and Construction for Ultimate Conveyance on Bear Creek	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	F-28, L500-02-CON, Right-Of-Way Acquisition, Design, and Construction of Kluge Stormwater Detention Basin	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	F-84, U102-12-00-FP, Design and Construction of Secondary Outfall for John Pauls Landing for the Upper Langham Creek Program	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	C-50, G103-00-00-JOINT, Funding for Future Partnership Projects Based on Results of Study – for Right-of-Way Acquisition, Design, and Construction of General Drainage Improvements in San Jacinto River Watershed Study	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	CI-019, G103-GlenDaleDet, Investigations of Potential Detention Sites Around Glendale Dredge Site in Partnership with the City of Houston	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	CI-011, E100-00-00-P008, Feasibility Study of Hidden Lake Townhomes in Partnership with City of Houston	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	CI-033, E105-00-00-P001, Partnership Project with the City of Houston to Reduce the Risk of Flooding Around E105-00-00	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	F-10, E115-00-00-FP001, Right-Of-Way Acquisition, Design, and Construction of Channel Conveyance Improvements on Brickhouse Gully	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Z-02, U106-00-00-E004, Partnership Project with Spencer Road PUD	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Z-05, Z100-00-00-Y106, Ecosystem Services Study	Harris County	Sponsor is not looking for TWDB grant funding.

Infeasible Actions Identified

Document Name	Description	Sponsor	Reason for Infeasibility
Harris County Hazard Mitigation Plan	P500-03-00-E002 Basin Improvements, Phase 2	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	CI-025, D100-AddDet, Investigation of Additional Stormwater Detention Basins in the Brays Bayou Watershed	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	CI-038, D115-00-00-FP, Restore Channel Conveyance Capacity along D115-00-00	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	CI-017, W100-BCON, Design & Construction of Replacement Bridges along Buffalo Bayou	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	CI-024, W500-Micro, Investigation of Effectiveness of Micro-Detention in the Buffalo Bayou Watershed	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	CI-013, A104-CONV, Restore Channel Conveyance Capacity on A104-00-00	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	CI-003, A214-CONV, Rehabilitation of the A214-00-00 channel to Restore Channel Conveyance Capacity	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	CI-006, P118-BROCK, Design and Construction of a Stormwater Detention Basin in Brock Park	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Where appropriate, support retrofitting, purchase or relocation of structures located in hazard areas, prioritizing those that have experienced repetitive losses and/or are located in high- or medium-risk hazard areas	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Actively participates in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Integrate the hazard mitigation plan into other plans, ordinances and programs within the community	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Actively participate in and support the implementation of the six area-wide actions identified in Volume 1 of this plan	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Conduct drainage study of campus and based on the study, implement recommended actions to improve drainage on campus.	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Actively participate in and support the implementation of the six area-wide actions identified in Volume 1 of this plan	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Actively participate in and support the implementation of the six area-wide actions identified in Volume 1 of this plan	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Install a new emergency generator at Fire Station 3. Fire Station 3 is a critical facility	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Install a new emergency generator and elevate it above flood 500-year flood level at the Katy Wastewater Plant. Katy Wastewater Plant is a critical facility	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Install a new emergency generator and elevate it above flood 500-year flood level at Kingsland Water Plant. Kingsland Water Plant is a critical facility	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Install a new emergency generator and elevate it above flood 500-year flood level at Fire Station 1 Fire Station 1 is a critical facility	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Study to evaluate and develop improved and resilient access into and throughout TMC Campus to include critical transportation infrastructure, during Severe Weather events	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Study and development of an integrated Severe Weather response plan, within major medical campus (critical infrastructure) during Severe Weather events	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Development of an integrated Continuity of Operations Plan for major medical campus, with several tertiary care centers, covering several counties, during a Severe Weather event	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Development of a coordinated structural resiliency and damage tracking system for the TMC campus	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Development of a coordinated post-disaster resiliency plan for the TMC campus	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Develop and implement a personnel benefit-cost process and software training program for mitigation planning	Harris County	Sponsor is not looking for TWDB grant funding.

Infeasible Actions Identified

Document Name	Description	Sponsor	Reason for Infeasibility
Harris County Hazard Mitigation Plan	Actively participate in and support the implementation of the six area-wide actions identified in Volume 1 of this plan	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Study to evaluate and develop improved patient access and resilient evacuation capabilities during Severe Weather events	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Study to evaluate and develop the resiliency of aircraft landing points, as well as the establishment of a coordinated Air Corridor around major medical campus, to support during Severe Weather events	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Study to evaluate and develop resilient of pedestrian and handicapped access within TMC Campus	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Study to evaluate and develop an integrated and resilient logistical infrastructure, to support a major medical campus, during prolonged Severe Weather events	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Improve the resiliency of early warning notification and communication networks within TMC Campus during Severe Weather events	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Development of an integrated Severe Weather education program for patients, facility visitors and staff	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Study and improve the resiliency of power supply, to include steam and chill water mechanisms, for critical infrastructure during Severe Weather events	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Study and development of resilient storm safe buildings for critical infrastructure medical facilities	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Actively participate in and support the implementation of the six area-wide actions identified in Volume 1 of this plan	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Integrate the hazard mitigation plan into other plans, ordinances and programs that dictate land use decisions in the community, including City of Morgan's Point.	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Install additional Flood Alert Gauges and a velocity meter in sections of Clear Creek near/within Nassau Bay	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Bring water and wastewater treatment plant facility up to homeland security standards for drinking water	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Develop a Shoreline Management Plan	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Elevate Upper Bay Road to alleviate significant street Flood and high-velocity flow	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Where appropriate, support retrofitting, relocation, or rebuilding of structures that have experienced repetitive losses and/or are located in high- or medium-risk hazard areas	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Performing preventative maintenance and repair protocols, which mitigate natural hazards	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Actively participate in and support the implementation of the six area-wide actions identified in Volume 1 of this plan	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Trimming or Removal of Trees Close to Buildings or Playgrounds, and Planting of More Drought Resistant Type Plants and Shrubs	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Flood Mitigation – Code Required by City/County	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Flood Mitigation - Property Elevation (code required) – For the Rebuilding of a School/Non-School Building in Flood Zone	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	CERT Training – Ensure appropriate, key staff is trained to support District functions when the (EOC) Emergency Operation Center is activated	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Facilities are being relocated out of the floodway to areas outside of a current flood zone. These facilities were damaged during Harvey and are being relocated with FEMA funds.	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Integrate the hazard mitigation plan into the district plan for coordination.	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Actively participate in and support the implementation of the six area-wide actions identified in Volume 1 of this plan	Harris County	Sponsor is not looking for TWDB grant funding.

Infeasible Actions Identified

Document Name	Description	Sponsor	Reason for Infeasibility
Harris County Hazard Mitigation Plan	Where appropriate, support retrofitting, purchase or relocation of structures located in hazard areas, prioritizing those that have experienced repetitive losses and/or are located in high- or medium-risk hazard areas	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Integrate the hazard mitigation plan into other plans, ordinances and programs within the community	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Actively participate in and support the implementation of the six area-wide actions identified in Volume 1 of this plan	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Install early warning systems for public buildings	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Install dry floodproofing measures including flood barrier systems, opening barrier designed to withstand water loads and high impact forces, protection of utilities, sealing of building penetrations, modular flood panels to enhance flood protection at critical care and/or public infrastructure	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Identify exposed/above ground pipelines in flood hazard area.	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Develop and implement master drainage plan and drainage model, including analysis of existing drainage system	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Integrate the hazard mitigation plan into other plans, ordinances and programs that dictate land use decisions in the community, including Spring Valley Village	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Where appropriate, support retrofitting, purchase or relocation of structures located in hazard areas, prioritizing those that have experienced repetitive losses and/or are located in high- or medium-risk hazard areas.	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Purchase/install generators at critical facilities and infrastructure that lack adequate back-up power or are in need of replacement.	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Actively participate in and support the implementation of the six area-wide actions identified in Volume 1 of this plan	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Integrate the hazard mitigation plan into other plans, ordinances and programs that dictate land use decisions in the community, including Zoning Ordinance, Capital Improvement projects and Economic Development Corporation planning	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Improve drainage channels to increase flow rate and increased retention areas	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Implement drainage improvements in Missouri City Estates- replace open ditches by installing storm sewers and level ground to reduce overland and sheet flow Flood within neighborhoods	Harris County	Sponsor is not looking for TWDB grant funding.
Harris County Hazard Mitigation Plan	Where appropriate, support retrofitting, purchase or relocation of structures located in hazard areas, prioritizing those that have experienced repetitive losses and/or are located in high- or medium-risk hazard areas	Harris County	Sponsor is not looking for TWDB grant funding.
City of Alvin Hazard Mitigation Plan	Lift Station 2 – Sanitary sewer - rehabilitation of the electrical equipment and performing structural repair of slab	City of Alvin	Sponsor is not looking for TWDB grant funding.
City of Alvin Hazard Mitigation Plan	Acquire, elevate or floodproof homes that are designated Repetitive Loss (RL) or Severe Repetitive Loss (SRL) by FEMA.	City of Alvin	Sponsor is not looking for TWDB grant funding.
City of Alvin Hazard Mitigation Plan	This project includes the installation of a Wastewater Supervisory Control and Data Acquisition (SCADA) system to the expanded wastewater treatment plant. The City currently is installing SCADA at the sanitary sewer lift stations with the goal that all critical facilities have SCADA.	City of Alvin	Sponsor is not looking for TWDB grant funding.
City of Alvin Hazard Mitigation Plan	Purchase additional flood gauges to be placed at bayous and key highwater areas within City	City of Alvin	Sponsor is not looking for TWDB grant funding.
City of Alvin Hazard Mitigation Plan	The City currently has hurricane shutters on the Emergency Operations Center (EOC) located at the Police Department. The City would like to install Hurricane Shutters on two buildings that are used during emergencies (PSF building for employees) temporary citizen staging area (for citizens).	City of Alvin	Sponsor is not looking for TWDB grant funding.
City of Alvin Hazard Mitigation Plan	A unified land development code combines all land use controls into a single document with a logical structure that is user friendly. The City would like to develop a unified land development code.	City of Alvin	Sponsor is not looking for TWDB grant funding.
City of Alvin Hazard Mitigation Plan	Educating citizens that all fuel burning equipment should be vented to the outside and installation of carbon monoxide monitors and alarms.	City of Alvin	Sponsor is not looking for TWDB grant funding.
City of Alvin Hazard Mitigation Plan	This project involves the design and construction of the extension of FM 528 from Gordon Street to Highway 6 along the right-of-way that has been acquired in the last ten plus years. The project was not selected for TIP funding. Most of the construction cost for the project comes from the construction of the bridge over the railroad tracks.	City of Alvin	Sponsor is not looking for TWDB grant funding.

Infeasible Actions Identified

Document Name	Description	Sponsor	Reason for Infeasibility
City of Alvin Hazard Mitigation Plan	As part of the 2024 City of Alvin Strategic Plan, Adopted Vision Element #2 Community Appeal and Image, strategic initiative 2.3 Goals were set to establish a program and resources for enforcement of updated codes and ordinances as well as a clear and effective public awareness campaign on city ordinances and enforcement.	City of Alvin	Sponsor is not looking for TWDB grant funding.
City of Alvin Hazard Mitigation Plan	This project is to provide improved technology features such as replacing existing projectors with monitors displays, replacing current workstation computers with new desktop computers, replacing outdated analog AV switches and wiring, and adding additional acoustical panels.	City of Alvin	Sponsor is not looking for TWDB grant funding.
City of Alvin Hazard Mitigation Plan	In 2011, the M-1 Watershed Study was completed for the City of Alvin. The study provides detailed hydrologic and hydraulic (H&H) analysis of the existing M-1 Ditch Watershed that identified areas of problematic flooding. The existing conditions model confirmed some of the problem areas described by the City and residents, in addition to exposing a few other locations. The Durant Road improvements, which will lower the WSEL and improve localized street and flooding along the M-1 Ditch, greatly reduces the number of homes that suffer repetitive losses from more frequent storm events.	City of Alvin	Sponsor is not looking for TWDB grant funding.
City of Alvin Hazard Mitigation Plan	The M-1 crossing at West South Street needs replacement as the structural integrity is questionable. The existing crossing is more than 40 years old, and the traffic load is directly on top of the crossing culverts.	City of Alvin	Sponsor is not looking for TWDB grant funding.
City of Manvel Hazard Mitigation Plan	To help alleviate flooding in the area south of Bailey Road that is found on the Cowart Creek, the District would design and construct a watershed project in the vicinity of Wells Drive and SH 35 including watershed protection and flood mitigation measures. The District applied for an FMA grant and is awaiting award.	City of Manvel	Sponsor is not looking for TWDB grant funding.
City of Manvel Hazard Mitigation Plan	Working with the Emergency Management Departments in City of Pearland, Brazoria, and Harris County, create or promote an existing public education program to educate the public on mitigation techniques that homeowners can learn to protect their families and property. Create water conservation methods to be sent to the public in advance of implementation of the drought contingency plan.	City of Manvel	Sponsor is not looking for TWDB grant funding.
City of Manvel Hazard Mitigation Plan	The proposed study will update the current stormwater master plan for the Mustang Bayou, Chocolate Bayou, Chigger Creek, and Cowart Creek watersheds within Brazoria Drainage District No. 4 (BDD4) jurisdiction. The purpose of the proposed study is to identify cost effective and efficient flood mitigation capital projects that are demonstrated to have a high likelihood of being fundable through the Flood Mitigation Assistance (FMA) grant. The projects developed will include scope, schedule and budgets, as well as the necessary technical information to demonstrate a positive benefit-cost ratio (BCR ≥ 1.0).	City of Manvel	Sponsor is not looking for TWDB grant funding.
City of Manvel Hazard Mitigation Plan	Establish a process with a location and security to relocate District equipment away from potential storm impacts.	City of Manvel	Sponsor is not looking for TWDB grant funding.
City of Manvel Hazard Mitigation Plan	Prepare an Emergency Operations Plan that provides for an established process and response including each employee responsibility prepared in advance of a disaster.	City of Manvel	Sponsor is not looking for TWDB grant funding.
City of Manvel Hazard Mitigation Plan	Have an established process in place with ensuring that all vehicles, equipment and fuel storage are completely fill 24 hour prior to storm. 48 hours before a storm, before moved to higher ground, if necessary, vehicles and equipment are services and a record of their service is maintained.	City of Manvel	Sponsor is not looking for TWDB grant funding.
City of Manvel Hazard Mitigation Plan	Use the District's website and public meetings to encourage community and employees to sign up for extreme weather alerts provided by the City of Pearland, Brazoria, and Harris Counties.	City of Manvel	Sponsor is not looking for TWDB grant funding.

Appendix 4-E – Task 4B Maps

Map 6: Existing Condition Flood Exposure

Legend

Flood Exposure Feature Density

- High
- Low
- Streams
- Municipality
- County
- Watersheds
- Region Boundary

N

0 5 10

Miles

Region 6 San Jacinto
2028 Regional Flood Plan
Existing Condition Flood Exposure

MAP 6

1 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Legend

Index

Walker County Page 3

San Jacinto County Page 4

Grimes County Page 8

W Montgomery County Page 7

E Montgomery County Page 6

Liberty County Page 5

W Harris County Page 10

E Harris County Page 11

Waller County Page 9

Central Harris County Page 14

Harris County Ship Channel Page 13

Chambers County Page 12

Fort Bend County Page 15

Brazoria County Page 16

Galveston County Page 17

Huntsville

Alabama-Coushatta Reservation

The Woodlands

Atascocita

Houston

Sugar Land

Rosenberg

Angleton

Lake Jackson

Bay City

San Bernard National Wildlife Refuge

N

0 5 10

Miles

Region 6 San Jacinto
2028 Regional Flood Plan
Existing Condition Flood Exposure

MAP 6

2 of 17 in series

Legend

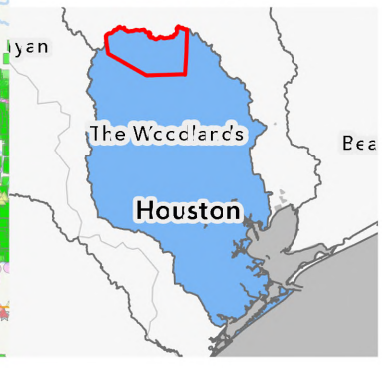
Existing Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land
- Streams
- Reservoir
- Municipality
- County
- Watersheds
- Region Boundary

N

0 2.75 5.5

Miles



Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Exposure

MAP 6
3 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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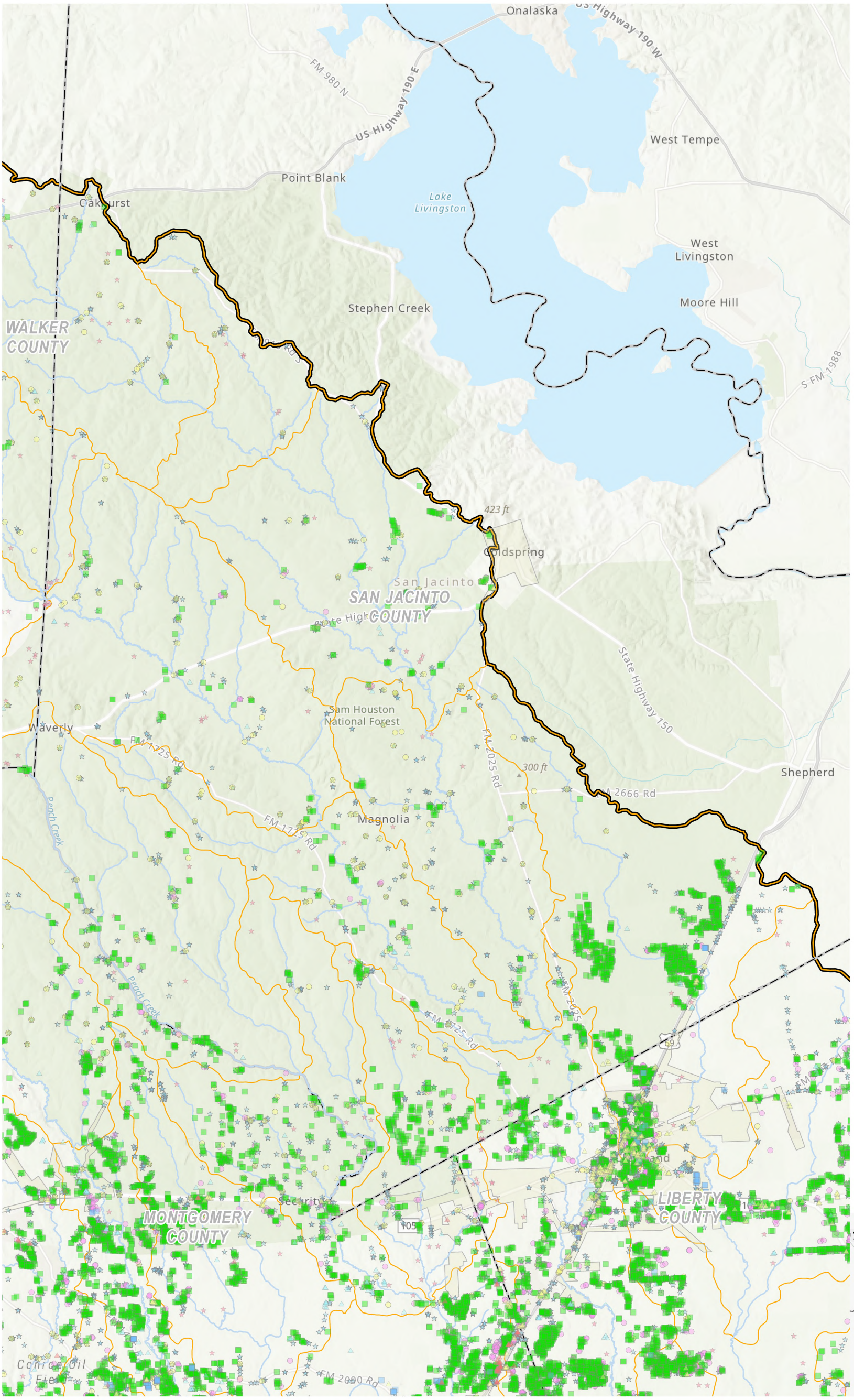

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Exposure

MAP 6
4 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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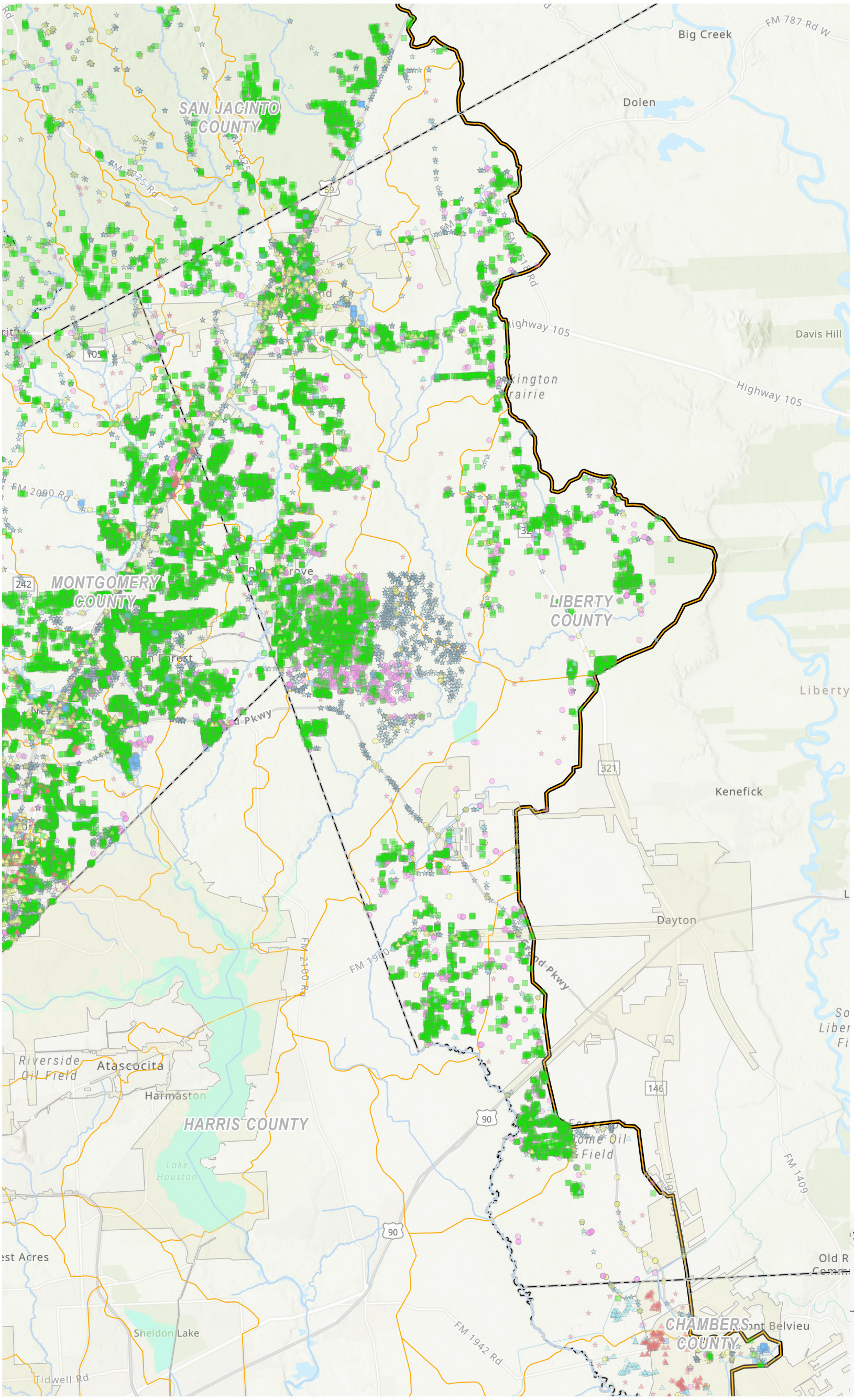

Legend

Existing Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land
- Streams
- Reservoir
- Municipality
- County
- Watersheds
- Region Boundary

N

0 1.75 3.5

Miles

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Exposure

MAP 6

5 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP REGION 6

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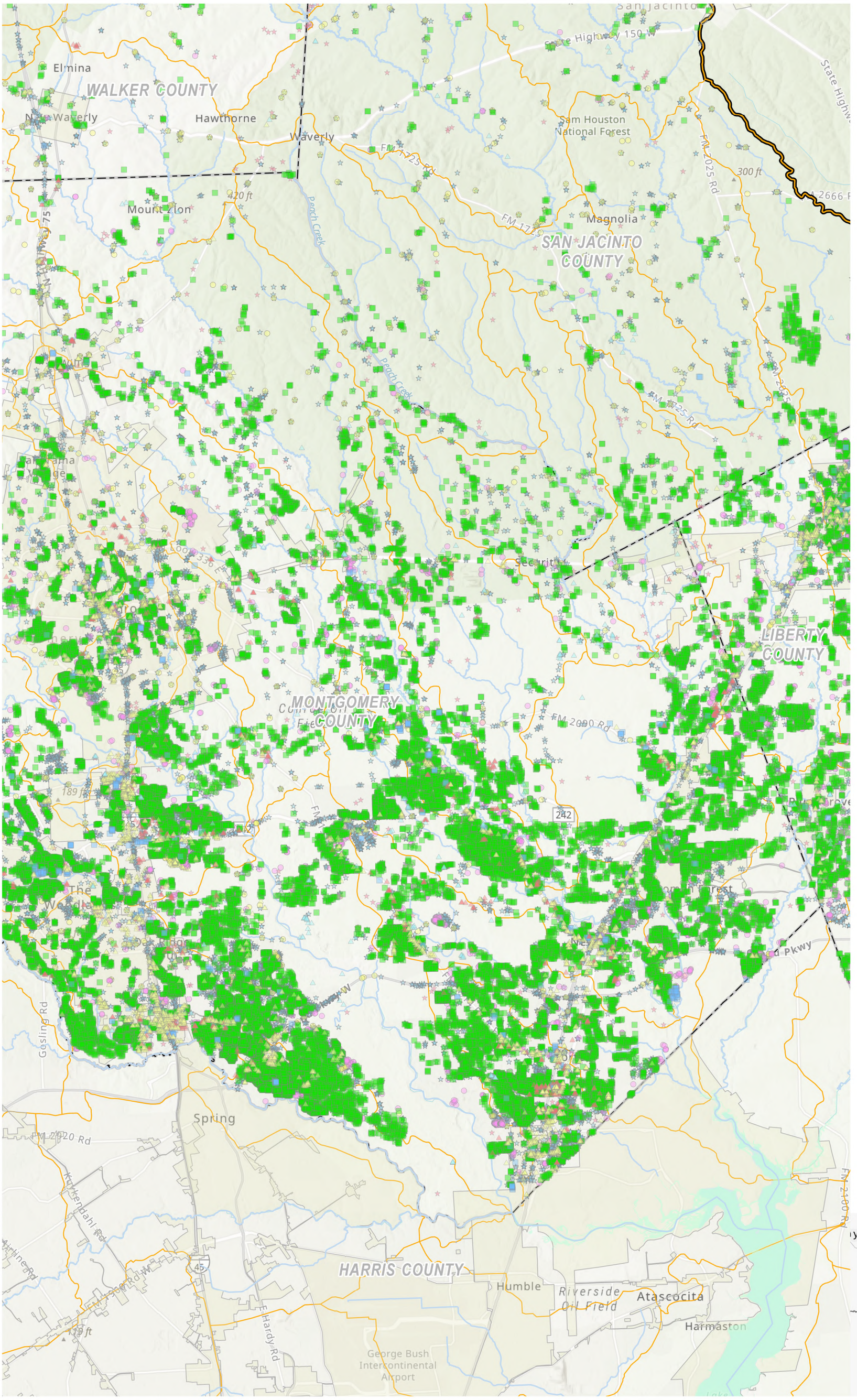

Legend

Existing Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land
- Streams
- Reservoir
- Municipality
- County
- Watersheds
- Region Boundary

N

0 1.75 3.5

Miles

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Exposure

MAP 6
6 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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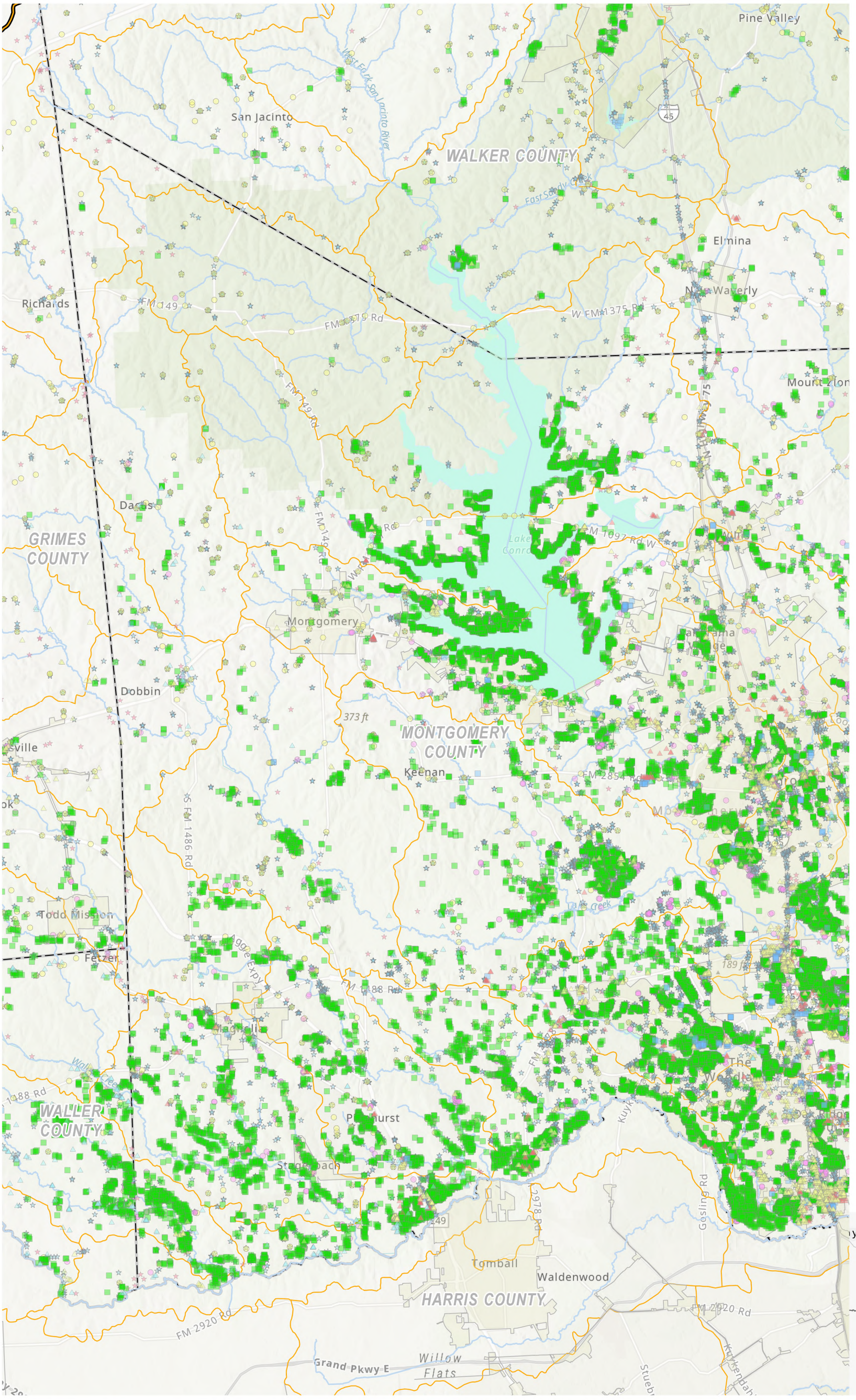

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Exposure

MAP 6
7 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Legend

Existing Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land
- Streams
- Reservoir
- Municipality
- County
- Watersheds
- Region Boundary

N

0 1.5 3

Miles

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Exposure

MAP 6
8 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Legend

Existing Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land
- Streams
- Reservoir
- Municipality
- County
- Watersheds
- Region Boundary

N

0 1.5 3

Miles

Region 6 San Jacinto
2028 Regional Flood Plan
Existing Condition Flood Exposure

MAP 6

9 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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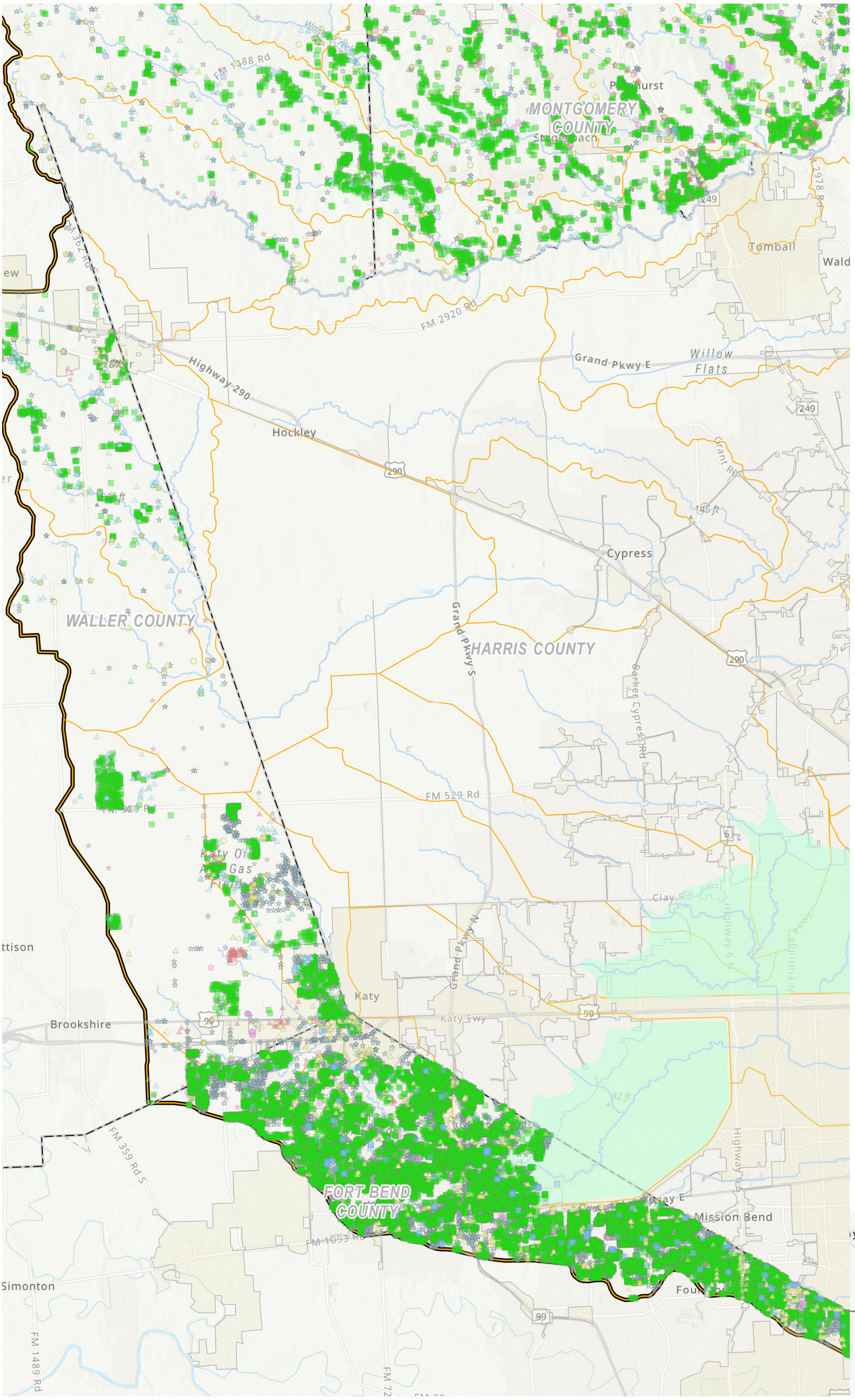

Legend

Existing Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land
- Streams
- Reservoir
- Municipality
- County
- Watersheds
- Region Boundary

N

0 1.5 3

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Exposure

MAP 6
10 of 17 in series

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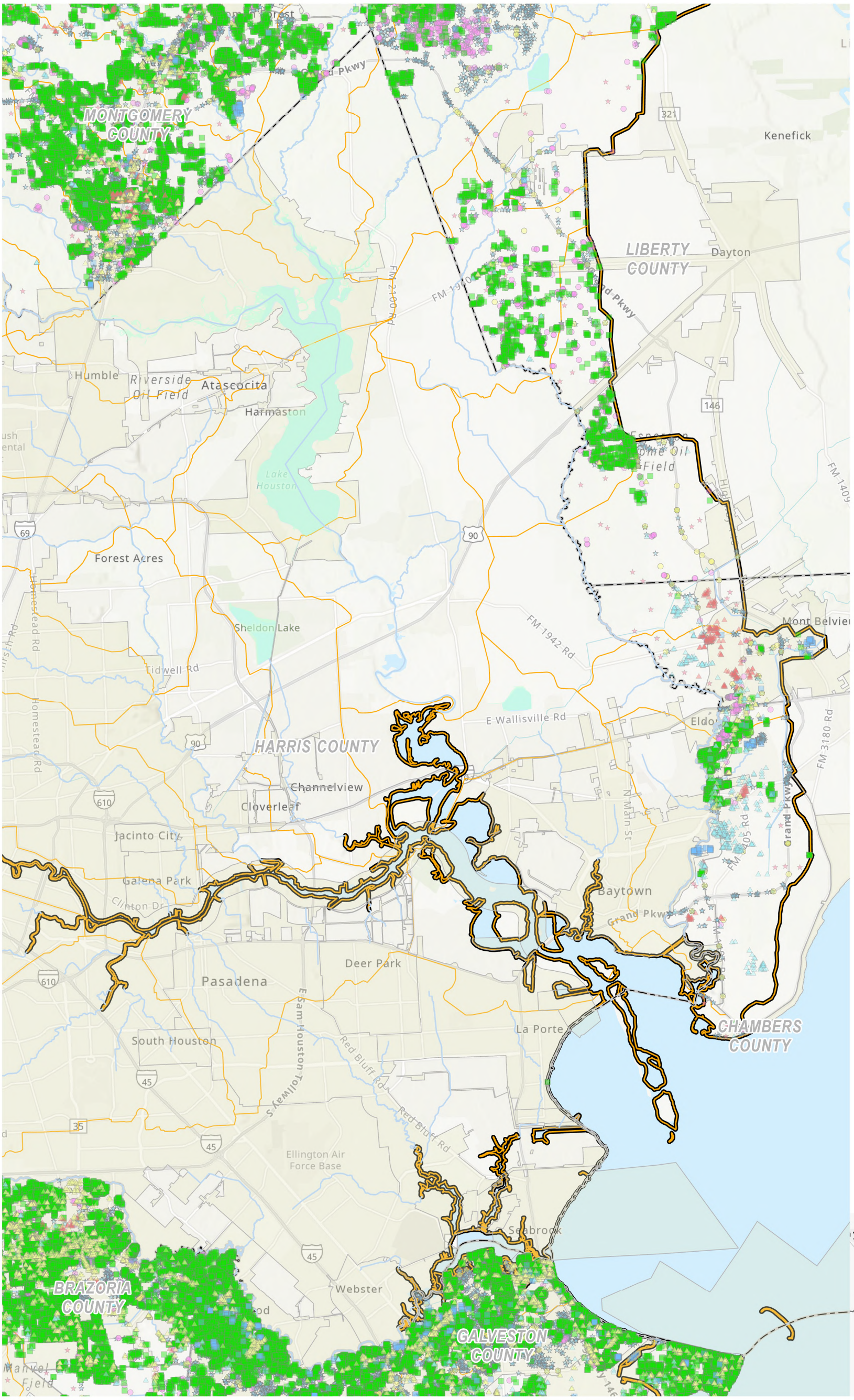

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Exposure

MAP 6
11 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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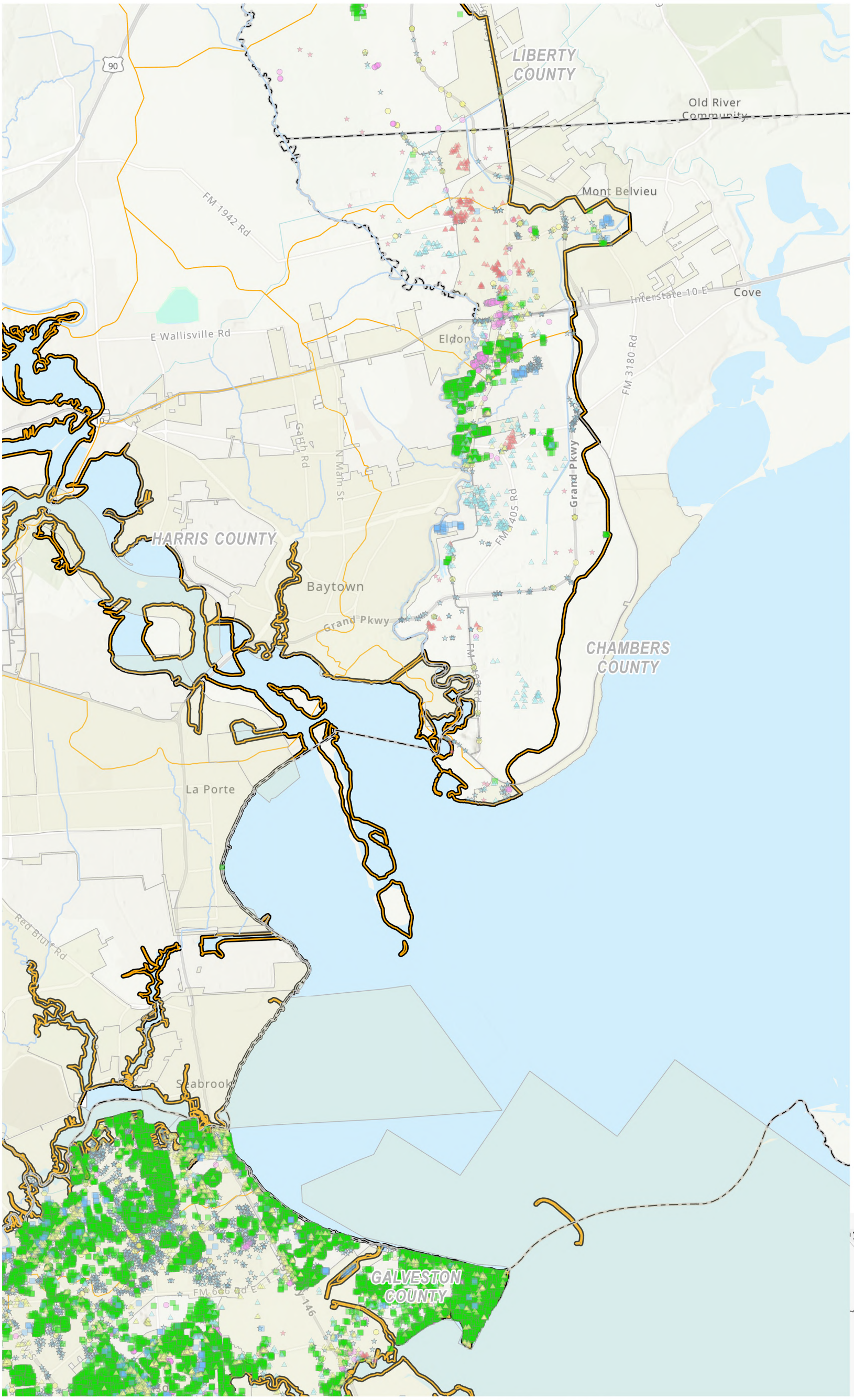

Legend

Existing Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land
- Streams
- Reservoir
- Municipality
- County
- Watersheds
- Region Boundary

N

0 1.25 2.5

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Exposure

MAP 6
12 of 17 in series

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Legend

Existing Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
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- Roadway Stream Crossing
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- Roadway Segment
- Agricultural Land
- Streams
- Reservoir
- Municipality
- County
- Watersheds
- Region Boundary

N

0 1 2

Miles

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Exposure

MAP 6
13 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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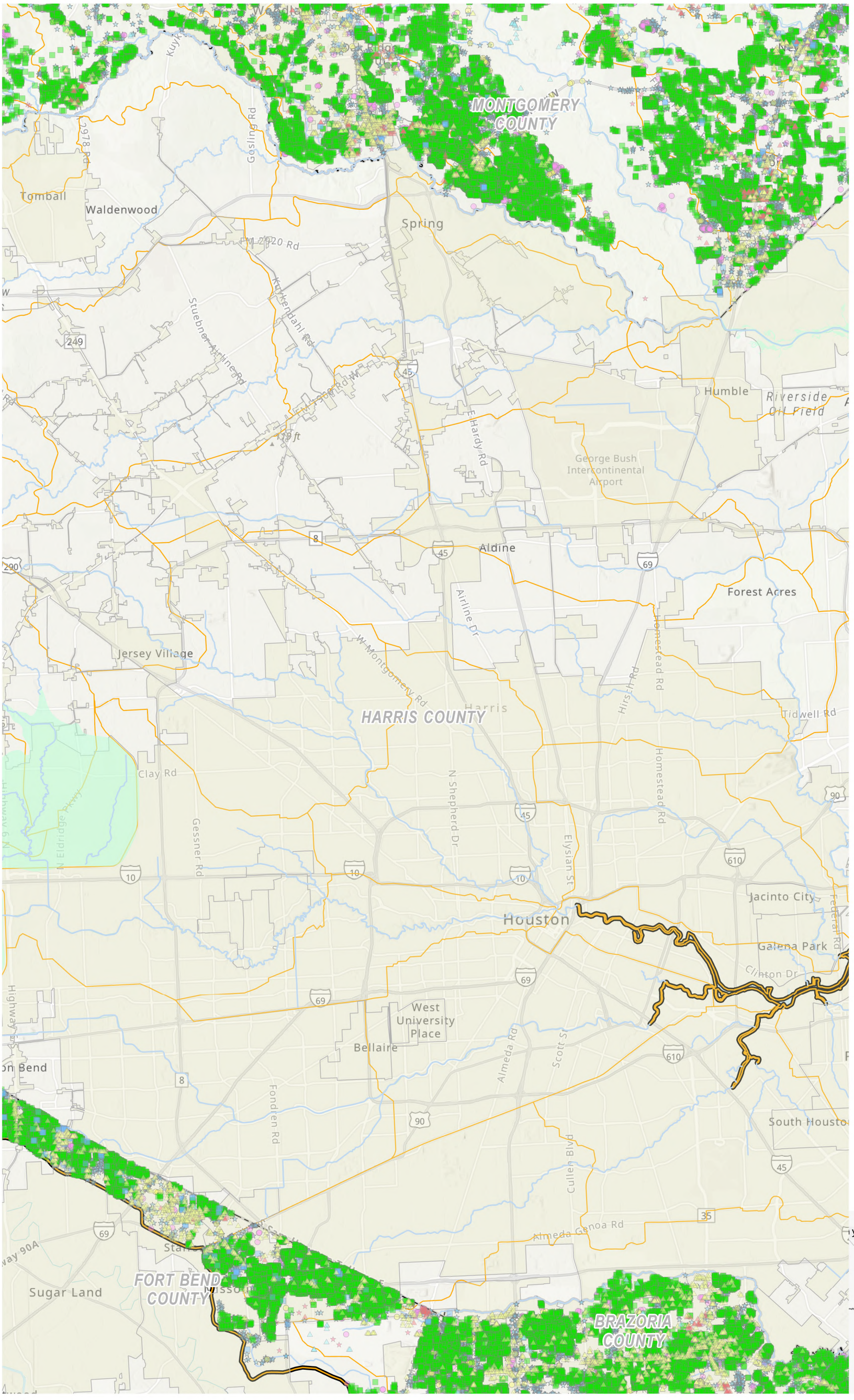

Legend

Existing Flood Exposure

- Agricultural Bldg
- Commercial Bldg
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- Reservoir
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- County
- Watersheds
- Region Boundary

N

0 1.75 3.5

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Exposure

MAP 6
14 of 17 in series

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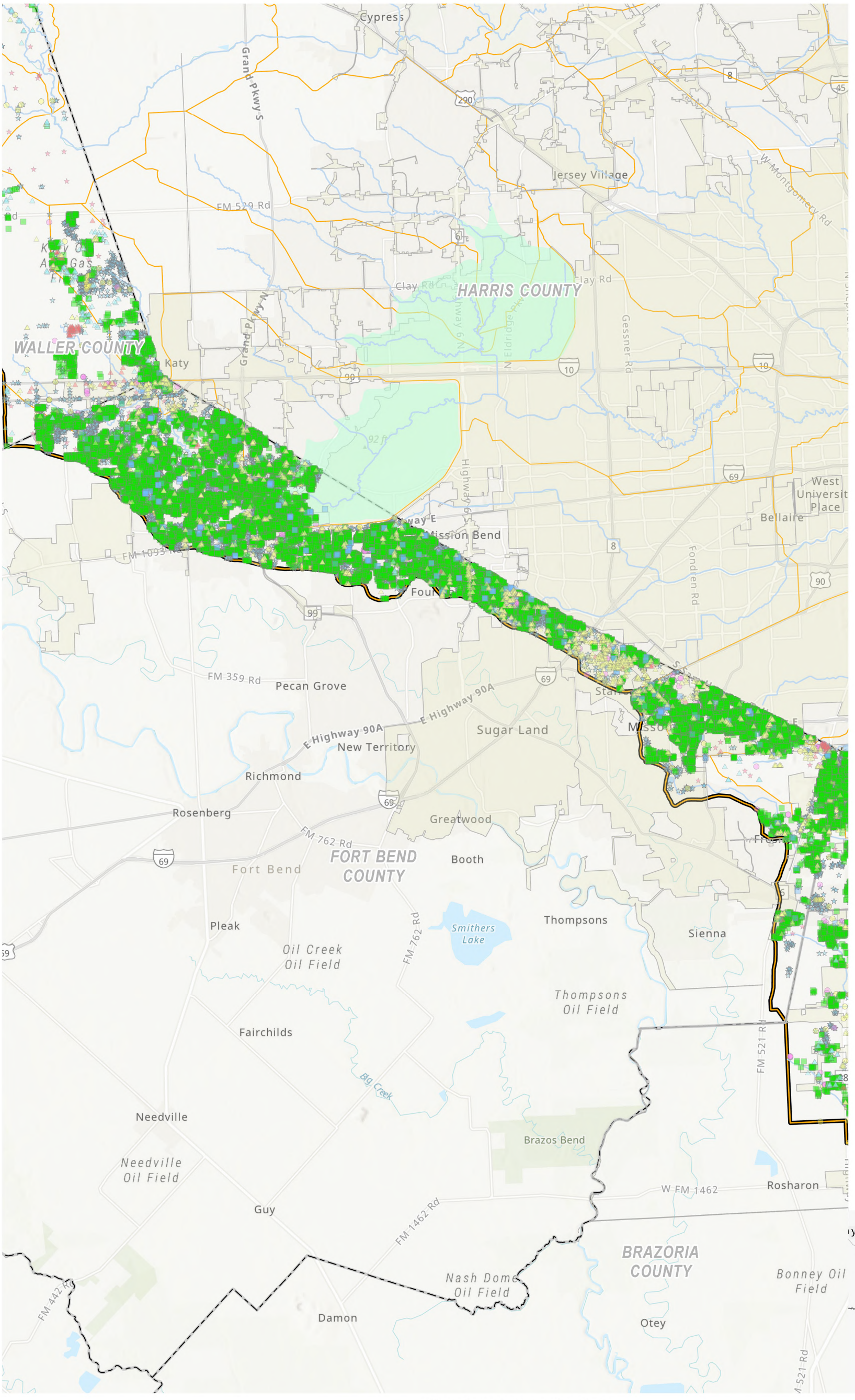

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Exposure

MAP 6
15 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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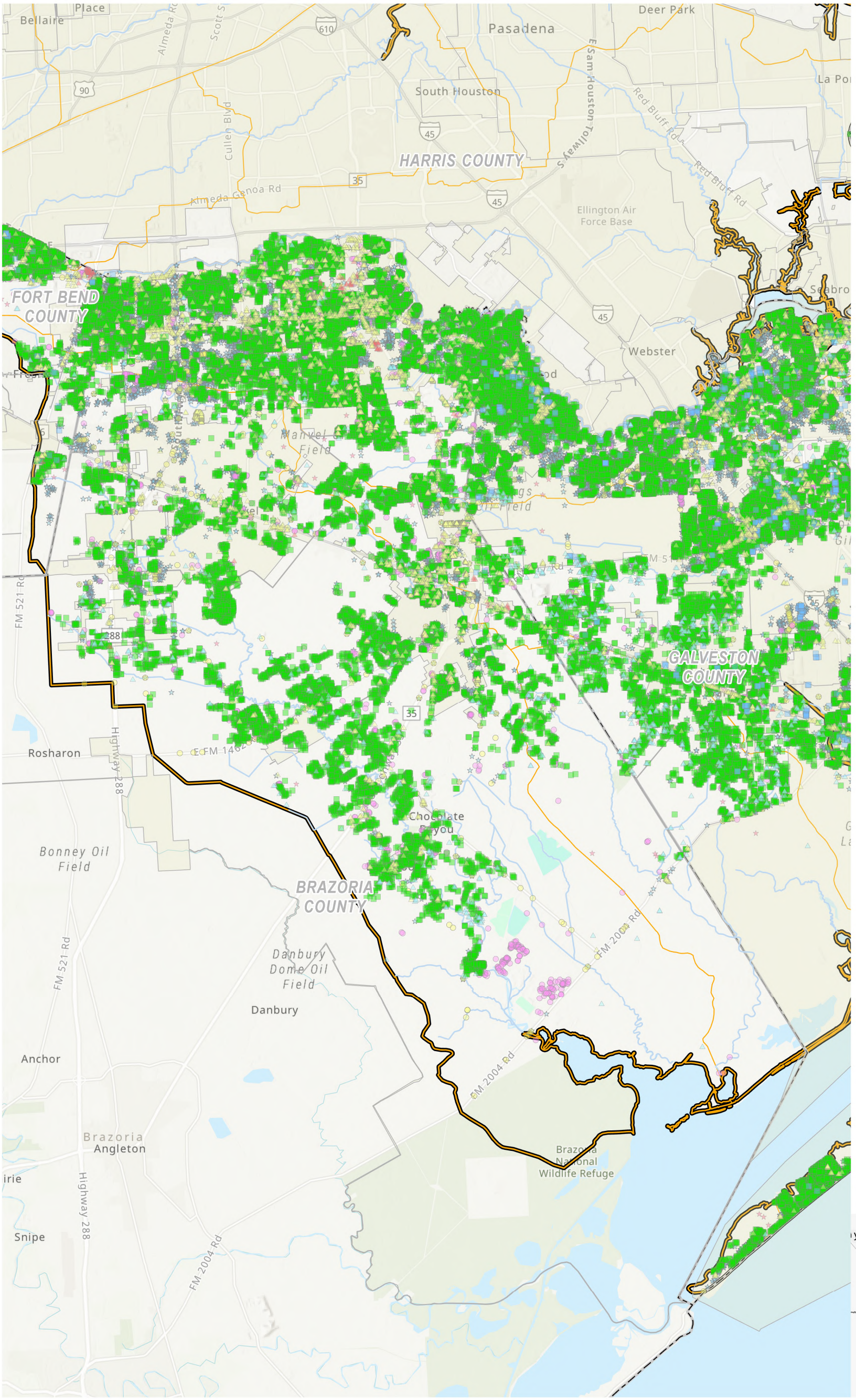

Legend

Existing Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land
- Streams
- Reservoir
- Municipality
- County
- Watersheds
- Region Boundary

N

0 1.75 3.5

Miles

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Exposure

MAP 6

16 of 17 in series

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

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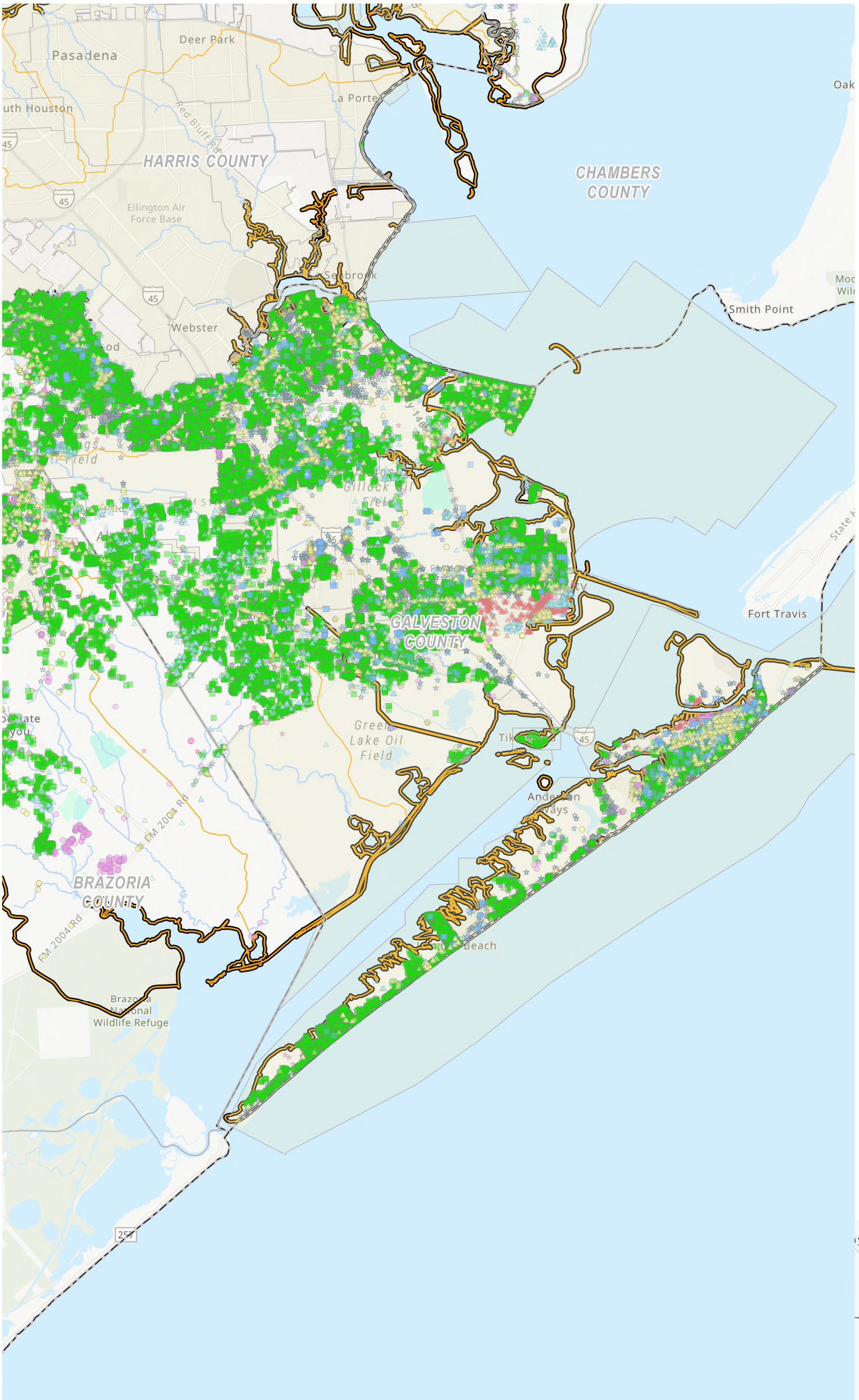


Legend

Existing Flood Exposure

- Agricultural Bldg
- Commercial Bldg
- Industrial Bldg
- Power Generation
- Public Bldg
- Residential Bldg
- Vacant or Unknown Bldg
- Roadway Stream Crossing
- Other
- Roadway Segment
- Agricultural Land
- Streams
- Reservoir
- Municipality
- County
- Watersheds
- Region Boundary

N

0 2.25 4.5

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan

Existing Condition Flood Exposure

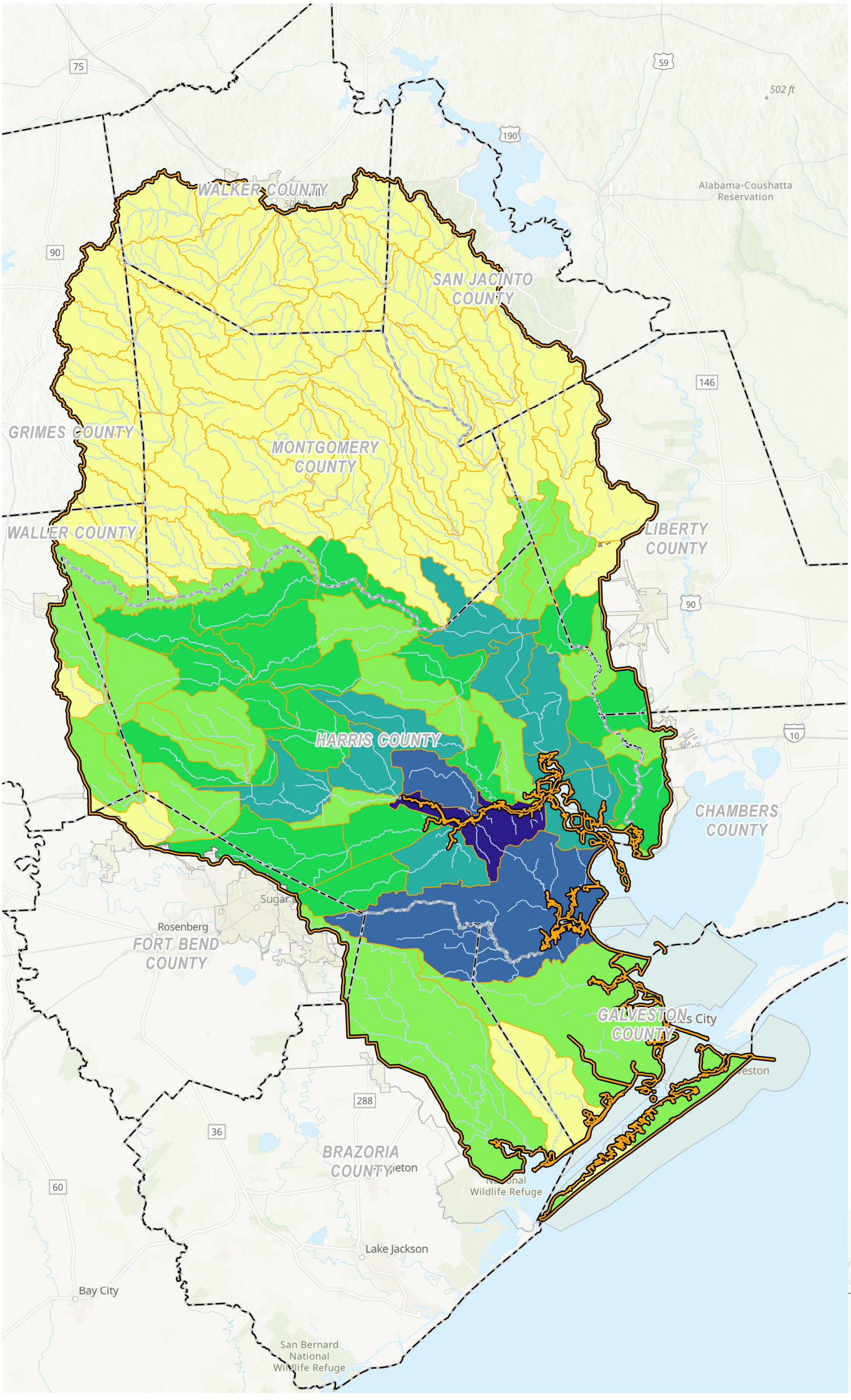
MAP 6
17 of 17 in series

Path: T:\Working_GIS\Working\Task02A\GISCoverageMaps\ProProject\RFP_Layout_Template.aprx

Prepared by Freese and Nichols, Inc.

NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Map 14: Model Coverage



Legend

Number of Models Overlapping HUC12s

- 1 - 7
- 8 - 12
- 13 - 18
- 19 - 23
- 24 - 29
- 30 - 36
- Streams
- Watersheds
- Reservoir
- Municipality
- County
- Region Boundary

N

0 5 10

Miles

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Region 6 San Jacinto
2028 Regional Flood Plan
Model Coverage

MAP 14