

# 2023 REGIONAL FLOOD PLAN REGION 6 SAN JACINTO

January 2023

PREPARED FOR THE SAN JACINTO  
REGIONAL FLOOD PLANNING GROUP





## TABLE OF CONTENTS

Appendix 0-1:	Bibliography and Citations
Appendix 1-1:	Map 1 - Existing Flood Infrastructure
Appendix 1-2:	Map 2 - Proposed or Ongoing Flood Mitigation Projects
Appendix 1-3:	Map 3 - Non-Functional or Deficient Flood Mitigation Features or Infrastructure
Appendix 1-4:	Table 1 - Existing Flood Infrastructure (ExFldInfra)
Appendix 1-5:	Table 2 - Existing Flood Projects (ExFldProjs)
Appendix 2A-1:	Map 4 - Existing Condition Flood Hazard
Appendix 2A-2:	Map 5 - Gaps in Inundation Mapping and Flood-Prone Areas
Appendix 2A-3:	Map 6 - Existing Condition Flood Exposure
Appendix 2A-4:	Map 7 - Existing Condition Vulnerability and Critical Infrastructure
Appendix 2A-5:	Table - Existing Hydrologic and Hydraulic Models
Appendix 2A-6:	Table - Expected Loss of Function Summary
Appendix 2A-7:	Table 3 - Existing Conditions Flood Exposure Summary Table
Appendix 2A-8:	Existing Conditions Flood Summary Tables
Appendix 2A-9:	Map 22 - Model Coverage
Appendix 2B-1:	Map 8 - Future Condition Flood Hazard
Appendix 2B-2:	Map 9 - Gaps in Inundation Mapping and Flood-Prone Areas
Appendix 2B-3:	Map 10 - Extent of Increase of Flood Hazard Compared to Existing Condition
Appendix 2B-4:	Map 11 - Future Condition Flood Exposure
Appendix 2B-5:	Map 12 - Future Condition Vulnerability and Critical Infrastructure
Appendix 2B-6:	Table 5 - Future Conditions Flood Exposure Summary Table
Appendix 2B-7:	Task 2B - Future Condition Flood Risk Analysis Technical Memorandum
Appendix 2B-8:	Future Conditions Flood Summary Tables
Appendix 3A-1:	Table 6 - Existing Floodplain Management Practices
Appendix 3A-2:	Map 13 - Floodplain Management
Appendix 3B-1:	Table 11 - Regional Flood Plan Flood Mitigation and Floodplain Management Goals
Appendix 4-1:	Map 16 - Potential Flood Management Evaluations
Appendix 4-2:	Map 17 – Potential Flood Mitigation Projects
Appendix 4-3:	Map 18 - Potential Flood Management Strategies

Appendix 4-4:	Table 12 - Potential FMEs
Appendix 4-5:	Table 13 - Potential FMPs
Appendix 4-6:	Table 14 - Potential FMSs
Appendix 5-1:	Map 19 - Recommended FMEs
Appendix 5-2:	Map 20 - Recommended FMPs
Appendix 5-3:	Map 21 - Recommended FMSs
Appendix 5-4:	Supplemental Source Documentation
Appendix 5-4A:	Non-Structural Flood Mitigation
Appendix 5-4B:	Lower Clear Creek and Dickinson Bayou Flood Mitigation Plan
Appendix 5-4C:	Brays Bayou CDBG-MIT
Appendix 5-4D:	Sims Bayou CDBG-MIT
Appendix 5-4E:	Halls Bayou CDBG-MIT
Appendix 5-4F:	White Oak Bayou CDBG-MIT
Appendix 5-4G:	Greens Bayou CDBG-MIT
Appendix 5-4H:	San Jacinto Master Drainage Plan
Appendix 5-4I:	Coastal Texas Protection and Restoration Feasibility Study
Appendix 5-4J:	Houston Fifth Ward
Appendix 5-4K:	Houston Port Area
Appendix 5-4L:	Houston Kashmere Gardens
Appendix 5-4M:	Houston Sunnyside Area
Appendix 5-5:	FMX One-Page Summaries
Appendix 5-5A:	One-Page Summaries of Recommended FMPs
Appendix 5-5B:	One-Page Summaries of Recommended FMSs
Appendix 5-5C:	One-Page Summaries of Recommended FMEs
Appendix 5-6:	Table 15 - Recommended FMEs
Appendix 5-7:	Table 16 - Recommended FMPs
Appendix 5-8:	Table 17 - Recommended FMSs
Appendix 5-9:	FMP Details
Appendix 9-1:	Survey Template
Appendix 9-2:	Table 1 - Survey Results
Appendix 10-1:	Communications and Media Engagement Plan

Appendix 10-2: Monthly E-Blasts

Appendix 10-3: SJRFPD Distribution List

Appendix 10-4: Technical Committee Meeting Minutes and Materials

Appendix 10-5: Public Engagement Meeting Minutes and Materials

Appendix 10-6: May 2021 Pre-Planning Meeting Minutes

Appendix 10-7: August 2021 Existing Flood Risk Meeting Minutes

Appendix 10-8: May 2022 Open Houses Meeting Minutes

Appendix 10-9: Example Questionnaire

Appendix 10-10: TFMA Conference Materials

Appendix 10-11: Public Engagement Presentation

Appendix 10-12: Notice and Summary of the Draft Regional Flood Plan

Appendix 10-13: Responses to Comments on the Draft Regional Flood Plan

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**Appendix 2B-6:**  
**Table 5 - Future Conditions Flood Exposure Summary Table**

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Appendix 2B-6: Table 5 - Future condition Flood Risk Summary Table

1% Annual Chance Flood Risk														
	RFPG No.	RFPG Name	County	Area in Flood Planning Region (sqmi)	Area in Floodplain (sqmi)	Flood Risk Type: Riverine Area (sqmi)	Flood Risk Type: Coastal Area (sqmi)	Flood Risk Type: Urban/Local Area (sqmi)	Flood Risk Type: Playa Area (sqmi)	Flood Risk Type: Other Area (sqmi)	Number of Structures in Floodplain	Residential Structures in Floodplain	Population (daytime)	Population (nighttime)
1	6	San Jacinto	Brazoria	368	240	240	162	0	0	0	39,724	32,650	86,004	92,612
2	6	San Jacinto	Chambers	54	18	18	9	0	0	0	1,326	642	3,166	1,887
3	6	San Jacinto	Fort Bend	98	18	18	0	0	0	0	11,122	10,205	29,257	35,258
4	6	San Jacinto	Galveston	350	405	405	405	0	0	0	112,174	97,323	233,194	257,594
5	6	San Jacinto	Grimes	206	31	31	0	0	0	0	252	119	115	180
6	6	San Jacinto	Harris	1,774	752	752	201	0	0	0	430,825	374,038	1,714,901	1,560,007
7	6	San Jacinto	Liberty	286	117	117	0	0	0	0	5,613	3,644	4,157	6,276
8	6	San Jacinto	Montgomery	1,077	345	345	0	0	0	0	47,994	39,587	83,001	108,423
9	6	San Jacinto	San Jacinto	319	84	84	0	0	0	0	1,493	1,344	841	1,989
10	6	San Jacinto	Walker	396	76	76	0	0	0	0	928	793	472	1,102
11	6	San Jacinto	Waller	194	39	39	0	0	0	0	2,421	1,763	2,191	4,123
Total				5,122	2,123	2,123	777	0	0	0	653,872	562,108	2,157,299	2,069,451

0.2% Annual Chance Flood Risk														
	RFPG No.	RFPG Name	County	Area in Flood Planning Region (sqmi)	Area in Floodplain (sqmi)	Flood Risk Type: Riverine Area (sqmi)	Flood Risk Type: Coastal Area (sqmi)	Flood Risk Type: Urban/Local Area (sqmi)	Flood Risk Type: Playa Area (sqmi)	Flood Risk Type: Other Area (sqmi)	Number of Structures in Floodplain	Residential Structures in Floodplain	Population (daytime)	Population (nighttime)
1	6	San Jacinto	Brazoria	368	268	268	173	0	0	0	50,822	42,063	114,351	120,828
2	6	San Jacinto	Chambers	54	22	22	12	0	0	0	2,035	1,022	4,779	3,386
3	6	San Jacinto	Fort Bend	98	28	28	0	0	0	0	21,830	20,427	53,869	69,174
4	6	San Jacinto	Galveston	350	420	420	420	0	0	0	122,166	106,589	252,683	283,875
5	6	San Jacinto	Grimes	206	49	49	0	0	0	0	752	351	352	670
6	6	San Jacinto	Harris	1,774	925	925	236	0	0	0	599,777	525,312	2,259,872	2,116,997
7	6	San Jacinto	Liberty	286	135	135	0	0	0	0	7,397	4,816	6,376	8,959
8	6	San Jacinto	Montgomery	1,077	452	452	0	0	0	0	80,730	67,231	154,118	185,649
9	6	San Jacinto	San Jacinto	319	117	117	0	0	0	0	2,691	2,384	1,610	3,711
10	6	San Jacinto	Walker	396	116	116	0	0	0	0	2,563	2,201	1,946	3,431
11	6	San Jacinto	Waller	194	54	54	0	0	0	0	4,349	3,068	5,073	7,604
Total				5,123	2,586	2,586	841	0	0	0	895,112	775,464	2,855,029	2,804,284

Appendix 2B-6: Table 5 - Future condition Flood Risk Summary Table

	RFPG No.	RFPG Name	County	Population	Roadway Stream Crossings (#)	Roadways Segments (miles)	Agricultural Areas (sqmi)	Critical Facilities (#)
1	6	San Jacinto	Brazoria	92,612	516	620	21	484
2	6	San Jacinto	Chambers	3,166	34	29	1	21
3	6	San Jacinto	Fort Bend	35,258	140	125	0	75
4	6	San Jacinto	Galveston	257,594	762	1,814	10	1,936
5	6	San Jacinto	Grimes	180	111	19	0	0
6	6	San Jacinto	Harris	1,714,901	4,498	5,890	15	7,455
7	6	San Jacinto	Liberty	6,276	196	227	4	12
8	6	San Jacinto	Montgomery	108,423	1,236	816	2	261
9	6	San Jacinto	San Jacinto	1,989	154	70	0	0
10	6	San Jacinto	Walker	1,102	231	45	0	2
11	6	San Jacinto	Waller	4,123	127	72	3	7
Total				2,225,624	8,005	9,726	56	10,253

0.2% Annual Chance Flood Risk								
	RFPG No.	RFPG Name	County	Population	Roadway Stream Crossings (#)	Roadways Segments (miles)	Agricultural Areas (sqmi)	Critical Facilities (#)
1	6	San Jacinto	Brazoria	120,828	596	775	23	554
2	6	San Jacinto	Chambers	4,779	39	43	1	24
3	6	San Jacinto	Fort Bend	69,174	185	234	1	178
4	6	San Jacinto	Galveston	283,875	811	1,942	11	2,013
5	6	San Jacinto	Grimes	670	130	40	0	0
6	6	San Jacinto	Harris	2,259,872	5,057	7,864	19	9,642
7	6	San Jacinto	Liberty	8,959	211	286	5	19
8	6	San Jacinto	Montgomery	185,649	1,480	1,302	2	463
9	6	San Jacinto	San Jacinto	3,711	172	104	0	6
10	6	San Jacinto	Walker	3,431	294	110	1	5
11	6	San Jacinto	Waller	7,604	134	116	4	18
Total				2,948,552	9,109	12,814	66	12,922

Appendix 2B-6: Table 5 - Future condition Flood Risk Summary Table

Possible Flood Prone Areas												
	RFPG No.	RFPG Name	County	Area (sqmi)	Number of Structures in Flood Prone Area	Residential Structures in in Flood Prone Area	Population	Roadway Stream Crossings (#)	Roadways Segments (miles)	Agricultural Areas (sqmi)	Critical Facilities (#)	Average SVI of features in floodplain or flood prone areas
1	6	San Jacinto	Brazoria	-	-	-	-	-	-	-	-	0.33
2	6	San Jacinto	Chambers	-	-	-	-	-	-	-	-	0.26
3	6	San Jacinto	Fort Bend	0.19	126	123	369	-	2	-	-	0.31
4	6	San Jacinto	Galveston	-	-	-	-	-	-	-	-	0.43
5	6	San Jacinto	Grimes	-	-	-	-	-	-	-	-	0.58
6	6	San Jacinto	Harris	0.70	502	461	1,816	2	8	-	1	0.48
7	6	San Jacinto	Liberty	-	-	-	-	-	-	-	-	0.75
8	6	San Jacinto	Montgomery	0.27	153	134	335	-	4	-	3	0.38
9	6	San Jacinto	San Jacinto	0.07	28	27	78	-	-	-	-	0.49
10	6	San Jacinto	Walker	-	-	-	-	-	-	-	-	0.40
11	6	San Jacinto	Waller	0.03	-	-	-	-	-	-	-	0.42
Total				1.25	809	745	2,598	2	13	-	4	-

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**Appendix 2B-7:**  
**Task 2B - Future Condition Flood Risk Analysis Technical**  
**Memorandum**

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TECHNICAL MEMORANDUM

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TO: Texas Water Development Board

DATE: February 23, 2022

April 8, 2022 (revised)

May 15, 2022 (revised)

Submitted on San Jacinto Regional Flood Planning Group  
Behalf of:SUBJECT: Task 2B – Future Conditions Flood Risk Analysis

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**Introduction**

For the 2020 – 2023 planning cycle, the Regional Flood Planning Groups (RFPGs) were tasked with performing a future condition flood analysis to determine the potential extent of both the 1-percent (100-year) and 0.2 percent (500-year) annual-chance flood hazard based on a 30-year future forecast period. The estimated flood hazard changes will be used solely for the purpose of estimating the general magnitude of potential future increases in flood risk under the equivalent of a “do-nothing” or “no-action” alternative and within the regional flood planning context will not, in any way, be used for developing new flood hazard maps for any regulatory purposes.

The first step of the task was to identify areas within each Flood Planning Region (FPR) where future condition hydrologic and hydraulic model results and maps are available and to summarize the relevant information for use in determining future flood hazard. In areas where future condition flood hazard data is not available, Exhibit C of the Technical Guidelines for Regional Flood Planning outlines the following four methods for performing future condition flood identification, which are summarized in **Table 1** below.

**Table 1: TWDB Future Conditions Flood Hazard Methodology**

Method	Description	Explanation
1	Increase water surface elevation based on projected percent population increase (as proxy for development of land areas)	Method 1 involves making certain assumptions about development, and then estimating correlations between impervious cover changes and changes to flood elevations. These results would vary based on a watershed's land use, soil type, and topography. The TWDB acknowledges that population increases do not always lead to impervious cover increases, but this simplified approach can be utilized if desired.
2	Utilize the existing condition 0.2 percent annual chance floodplain as a proxy for the future 1 percent level	Method 2 utilizes existing modeling and mapping to create the future condition 1% annual exceedance flood hazard. However, it does not yield a future 0.2% flood hazard area, so a methodology will need to be determined by the Regional Flood Planning Group on determining the future 0.2% flood hazard area. The TWDB notes that this method may be more appropriate in areas with high growth rates that are categorized as urban or suburban.
3	Combination of methods 1 and 2 or an RFPG-proposed method	Method 3 is a combination of the first two methods, and (as with the other methods), the rational/determination should be well-documented.
4	Request TWDB perform a Desktop Analysis	Method 4 has the TWDB perform a desktop analysis to determine the future condition flood hazard boundaries. This would be primarily utilized in areas where the locations do not have future condition flood hazard data already available.

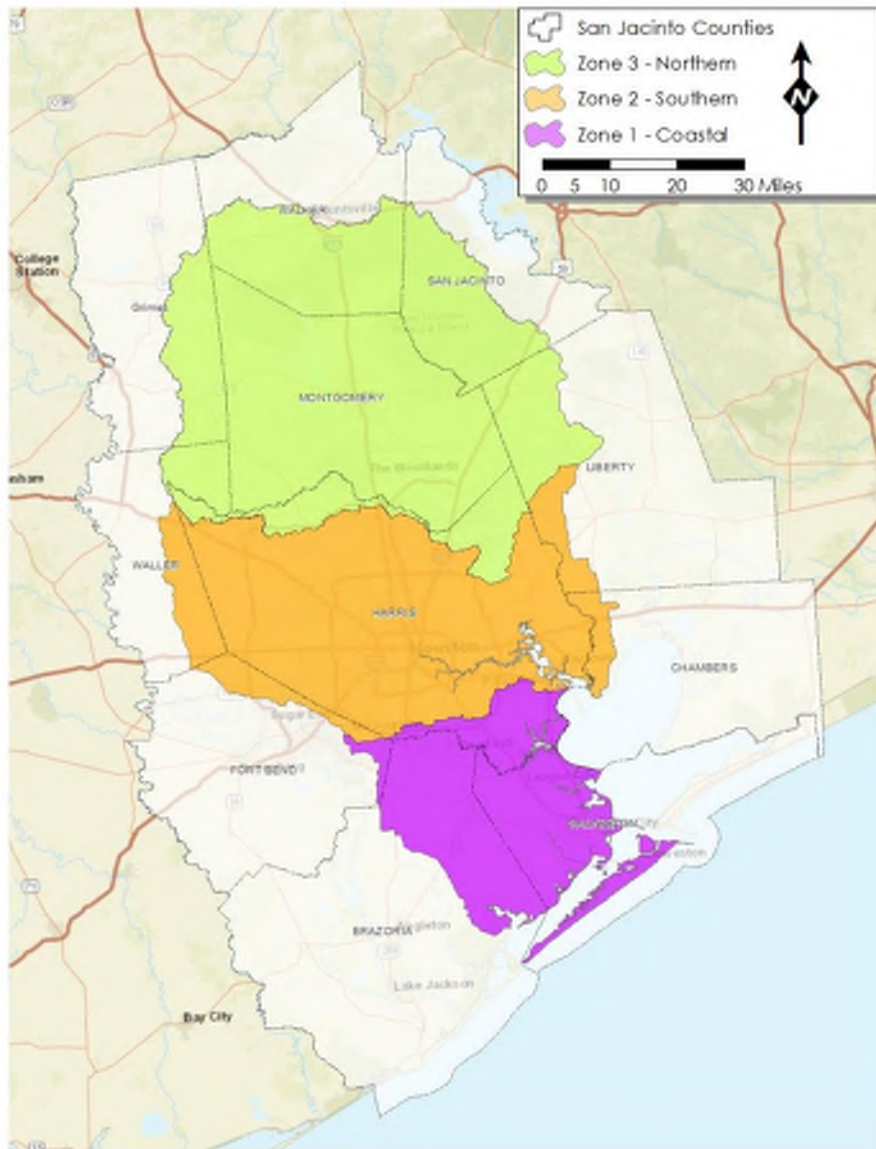
## Future Conditions Flood Risk Considerations

Changes in flood risk are dependent on a variety of factors. The changes in the riverine floodplain boundaries may be influenced by future development, population growth, and future rainfall patterns. Development causes a change in land use and alters existing drainage patterns, which may result in an increase in downstream flow rates and runoff volumes as well as differences in the timing of peak discharges. With the increased flow rates and runoff volumes, water surface elevations and floodplain widths may also increase. However, many municipalities and counties in the region have development retention/detention requirements to reduce and mitigate increases in stormwater runoff. The changes in coastal floodplain boundaries may be due to storm surges, sea level change, subsidence, and coastal erosion.

Increased flow due to future rainfall patterns results in larger changes in water surface elevation and limited changes in inundation extents in areas with steep terrain. Alternatively, the increased flow results in smaller changes in water surface elevations and larger changes in inundation extents in areas with flat terrain. Since varying terrain is common throughout the region, varying results were seen for the floodplain comparisons.

The region was divided into three different zones to represent varying watershed characteristics and different driving factors affecting change in flood hazard to more appropriately estimate the future flood hazard. The zones were designated as northern, southern, and coastal as shown below in **Figure 1**.

The northern zone includes the areas within Montgomery, Grimes, Walker, Waller, Harris, San Jacinto, and Liberty Counties that flow into Lake Houston. This area is characterized by rural development and rolling hill topography which is steeper than the other zones. The Southern Zone includes mostly Harris County and watersheds that drain into the Houston Ship Channel. This zone is characterized by urban development with flat terrain that is mostly influenced by riverine flooding. The Coastal Zone includes the areas that drain into Galveston Bay in Galveston, Brazoria, Fort Bend, Chambers, and southern Harris Counties. This zone is characterized by flat and coastal topography that experiences both riverine as well as coastal storm surge flooding.

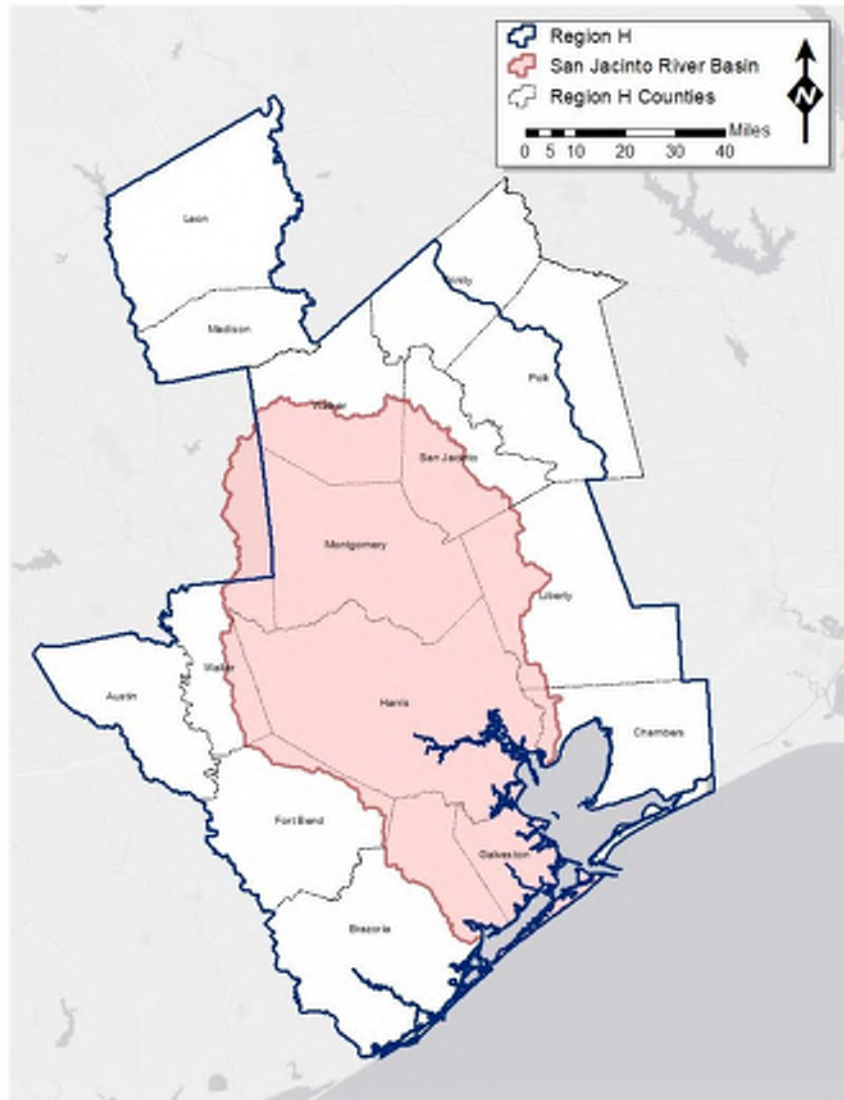


**Figure 1: San Jacinto Zone Designations**

When developing a predicative assessment for future conditions flood risk, the Texas Water Development Board (TWDB) suggested each region consider several factors which included: increase in population, future rainfall patterns, sea level rise, and subsidence.

## Population Increase

The TWDB's Water User Group projects that within the next 30 years, the population in the Water Planning Region H would increase by 3.5 million residents. This would lead to an approximate population increase of 37% between 2020 and 2050. This includes an additional 1.9 million residents in Montgomery, Harris, Galveston, and Brazoria Counties (a 30% increase). Although the boundaries of Region H are not exactly the same as the boundaries of Region 6 of the Regional Flood Planning Groups, the population estimates are an appropriate indication of the changes that the region will see over the next 30 years. **Figure 2** shows the boundaries of Region H in comparison to the boundaries of Region 6.



*Figure 2: Region H and Region 6 Boundaries*

## Future Rainfall Patterns

Projected future rainfall patterns can also have an impact on identifying future flood risk. In 2018, the National Oceanic and Atmospheric Administration (NOAA) updated rainfall depths and durations based on an analysis of historical data including the past 20 years. That information was published as NOAA Atlas 14, Volume 11 Precipitation-Frequency Atlas. The Texas coast saw a 10-15% increase in annual precipitation between 1991 and 2012 compared to the average annual precipitation between 1901 and 1960<sup>1</sup>.

To aid the RFPs, the Office of the Texas State Climatologist provided TWDB with guidance on how to incorporate projected future rainfall patterns in their April 16, 2021 report, titled “Climate Change Recommendations for Regional Flood Planning.” The report states that 1-day, 100-year rainfall depths increased by approximately 15% between 1960 and 2020. The climatologist coupled historical rainfall data with results from climate models to develop a relationship between extreme rainfall depths and future increases in global temperature. Percent increase in future precipitation was developed for both urbanized and rural watershed conditions. Due to the uncertainty of predicting weather patterns for extreme rainfall events<sup>2</sup>, the climatologist provided a minimum and maximum range for estimating future rainfall patterns. The climatologist found even more uncertainty when analyzing rural and large river catchments due to future decreases in soil moisture. This led them to providing a percent decrease as a minimum range. The report did not mention storm events under the 100-year rainfall (for instance, the 10- or 25-year storm events), but this information could be available for analysis during future flood planning phases.

The climatologist recommendations for future percent rainfall patterns are provided in **Table 2**. The table presented below was taken from the climatologist’s report and applies to the increase over Atlas 14 runoff volumes across the entire state. In order to be within the range proposed by the climatologist, the averaged maximum for urban and rural areas of 15% was used for modeling efforts to account for the varying types of land use within the San Jacinto watershed.

**Table 2: Range of Potential Future Rainfall Patterns**

	2050 - 2060	
Location	Minimum	Maximum
Urban Areas	12%	20%
Rural Areas / River	-5%	10%

## Sea Level Rise

Along with a growth in population and future rainfall patterns, sea level rise (SLR) was taken into consideration when estimating future flood hazard boundaries. SLR is an ongoing phenomenon where the relative ocean elevation is increasing and encroaching on coastal areas. Historical SLR has been analyzed by the Texas State Climatologist, Dr. Nielsen-Gammon, and the analysis has shown that the relative SLR increases at approximately 6.59 millimeters per year (0.65 feet in SLR over 30 years) in Galveston Bay at the Pier 21 measurement station.

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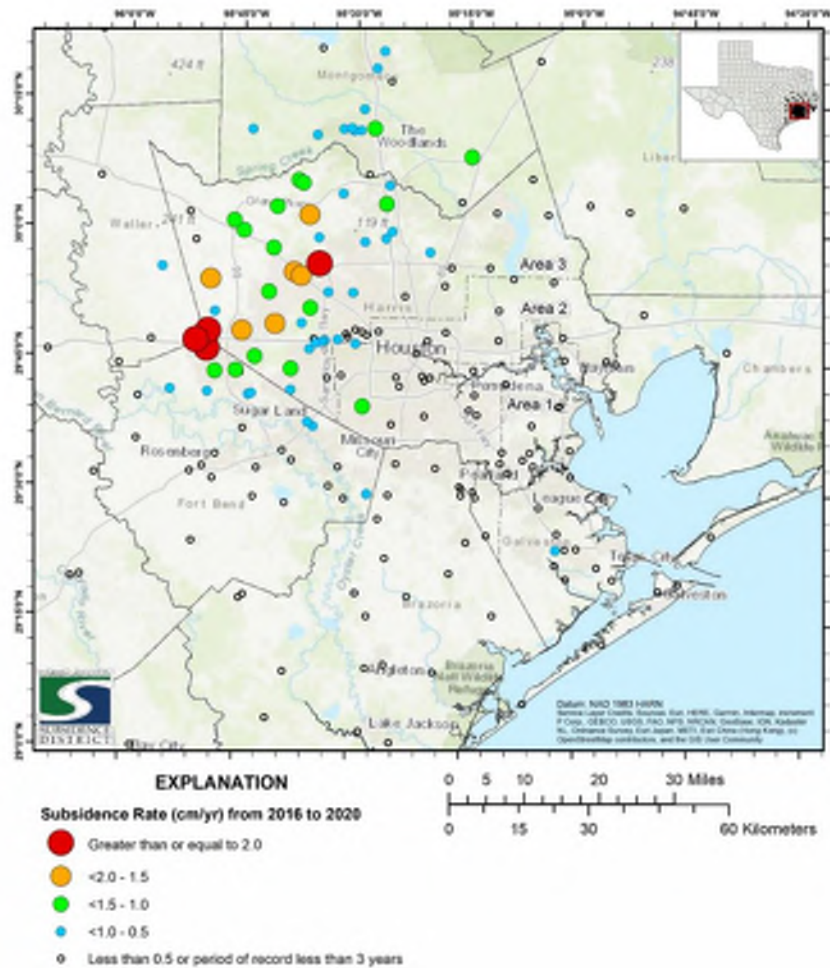
<sup>1</sup> “Climate Change and Sea-Level Rise Effects for the HSC ECIP Feasibility Study”, USACE.

<sup>2</sup> Typically defined as the 100- and 500-year storm events.



## Subsidence

Subsidence is the gradual lowering of the ground elevation that can result from changing groundwater levels or increases in sediment loadings. Approximately 250 GPS stations are currently monitoring subsidence within the San Jacinto River Basin, operated by the Harris-Galveston Subsidence District (HGSD), Fort Bend Subsidence District (FBSD), University of Houston, Lone Star Groundwater Conservation District (LSGCD), Brazoria County Groundwater Conservation District (BCGCD), Texas Department of Transportation (TxDOT), and other local entities. The subsidence was examined in the same three zones that were defined earlier: northern, southern, and coastal. Much of the subsidence is observed in the northern and southern zones of the region, as shown in **Figure 3**.



*Figure 3: San Jacinto Region Average Subsidence Rates from 2016 to 2020 (HGSD 2021)*

## Existing Data

Available hydrologic and hydraulic models containing future flood risk data were compiled and analyzed to obtain a better understanding of how future conditions affect future flood risk within Region 6. The models collected included those related to the San Jacinto Regional Watershed Master Drainage Plan (SJRM DP) which were developed in 2020 and the FEMA Effective Modeling within Harris County developed in the early 2000s. Results from these models served as a reference to guide the estimation of how future flood risk considerations impact flood hazard elevations and widths when compared to existing conditions.

### San Jacinto Regional Flood Plan

#### Overview

In 2020, the HCFCD, City of Houston, Montgomery County, and San Jacinto River Authority completed the SJRM DP, a comprehensive plan for all major streams in the upper San Jacinto River basin. The SJRM DP included updated existing conditions hydrologic and hydraulic models for the main streams within the watershed as well as a high-level analysis of future floodplains as the region continues to grow. These models incorporate new software technology, the latest terrain information and Atlas 14 rainfall, and were calibrated to recent storm events. With these enhancements, this plan represents the most up-to-date flood hazard information for the watershed.

#### Existing Conditions

To understand and identify the existing issues throughout the watershed, a comprehensive hydrologic and hydraulic model was developed for the thirteen major streams. The model incorporated existing available models within Harris County and new models for the remaining streams. The combined comprehensive model was calibrated for several historical storm events including Hurricane Harvey to ensure the analysis provided reasonable results when compared to observed data. The deliverables included models and digital floodplains for the region that were used in project planning efforts.

#### Future Conditions

The SJRM DP future conditions included changes in land use based on a 50-year population outlook that was accounted for through increased impervious cover in anticipated development areas. The future conditions models reflect anticipated changes in population between 2020 and 2070, which are expected to lead to increases in impervious cover and changes in the timing of basin runoff. While these models were developed for the purpose of high-level planning, they serve as a valuable guide for understanding the potential future flood risk for the basin.

### Harris County Flood Control District FEMA Models

#### Overview

Additional information was analyzed using the HCFCD effective FEMA models that cover Harris County. The models are open-source and can be obtained from HCFCD's website<sup>3</sup>. These steady state HEC-RAS models were developed in the early 2000s by HCFCD and were calibrated to historical storm events. However, the models were developed prior to the release of Atlas 14 rainfall data. HCFCD is in the process of updating the rainfall data and floodplain mapping (referred to as the Harris County Modeling, Assessment and Awareness Project, MAAPnext). The updated modeling and mapping have not been released in time for this round of regional flood planning, but future rounds of regional flood planning should incorporate the results.

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<sup>3</sup> <https://www.hcfcd.org/Resources/Interactive-Mapping-Tools/Model-and-Map-Management-M3-System>

At this time, future rainfall changes beyond Atlas 14 have not been considered. When Atlas 14 was released in 2018, the data that it replaced was developed during the 1960s and 1970s. Additional rainfall updates for the next 30 years were not considered during this stage of the planning cycle.

### **Existing Conditions**

As part of previous efforts, Atlas 14 rainfall had been included in several of the HCFCD models, which provided an approximate representation of what flood elevations may look like with future precipitation. This information was used to inform the future conditions recommended approach for the regional flood plan. The model updates included:

1. Updated rainfall values with Atlas 14 rainfall depths
2. Extrapolated storage-discharge curves as necessary
3. Simulated the existing hydrologic model for the frequency storm events
4. Updated the steady state flow data in HEC-RAS and simulated the updated hydraulic model

Neither routing reach HEC-HMS parameters nor downstream tailwater conditions were updated due to the high-level planning nature of the comparison analysis and the level of detail required for the intended purpose of the analysis. Maintaining the existing routing reach information and tailwater conditions is not expected to significantly affect the conclusions from the water surface elevation profile comparison analysis as it relates to supporting the future flood hazard buffer recommendation.

## **Future 100-year Flood Hazard Approach**

The existing available information was reviewed to identify the approach for the future 100-year flood hazard based on the recommended approaches from the TWDB. Separate approaches for the Northern, Southern, and Coastal Zones are described below.

### **Northern Zone**

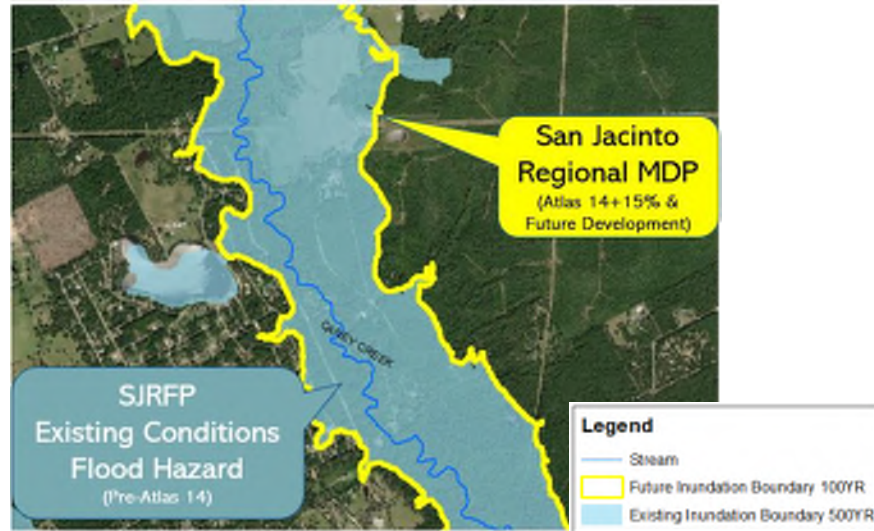
#### **Future Flood Hazard Approach**

Unique to the nature of the comprehensive analysis, the results of the SJRMDP included future conditions 100-year floodplains for the main rivers for the upper basin. Since the model included a comprehensive model of the area, the rainfall could be easily updated to include an additional 15% over the previously used Atlas 14 rainfall, fully analyzing potential future conditions of both development and rainfall in the region. The 15% value was chosen to be representative of the range of increased rainfall patterns as recommended in the state climatology report to better understand the impacts of additional precipitation in the region. The updated models were simulated for the 100-year storm event and compared to the existing flood hazard layers developed for the RFP.

#### **Comparison to Effective 500-year**

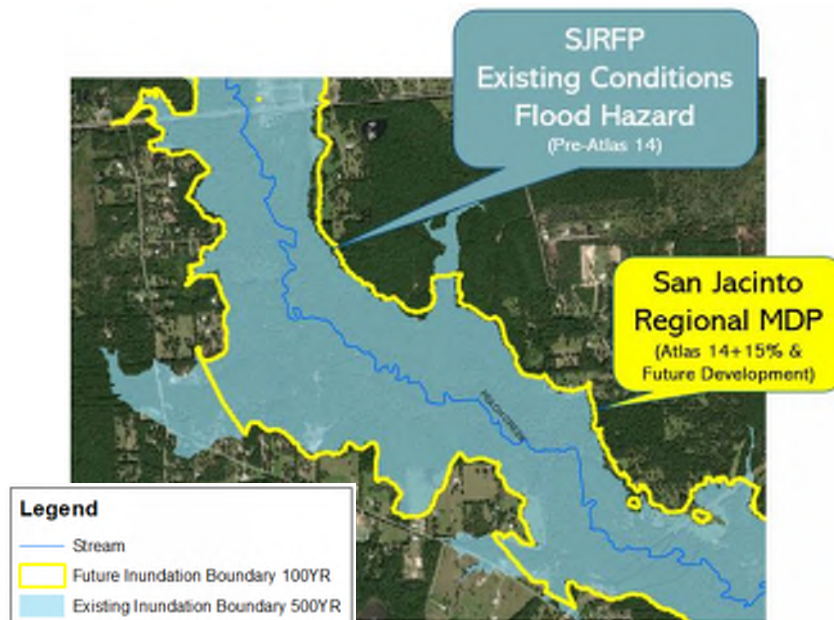
From the comparison, the typical observed trend was that the existing 500-year inundation boundaries were close in width and shape to the future 100-year inundation boundaries. **Figure 4** below shows the flood hazard width comparisons for Caney Creek. The rainfall depths that were utilized to develop the existing inundation 500-year boundary are known as TP-40, which is similar in magnitude to the Atlas 14 100-year rainfall amounts, explaining the similarities in the floodplain extents.





**Figure 4: Caney Creek Inundation Boundary Comparison**

Although the existing SJRFP 500-year and future SJRMDP 100-year inundation boundaries are similar in shape and width throughout most of the watersheds, there are some areas where the flood hazards showed minor differences, as noted in Peach Creek (shown in **Figure 5**). Differences can be attributed to changes in topography, model assumptions, and lack of quality existing information. In most cases the differences were minor and showed that the flood hazard boundaries were still comparable and would provide valuable information for the regional flood planning effort. **Appendix 1** shows additional flood hazard width comparisons throughout the San Jacinto River basin.



**Figure 5: Peach Creek Inundation Boundary Comparison**

## Southern & Coastal Zones

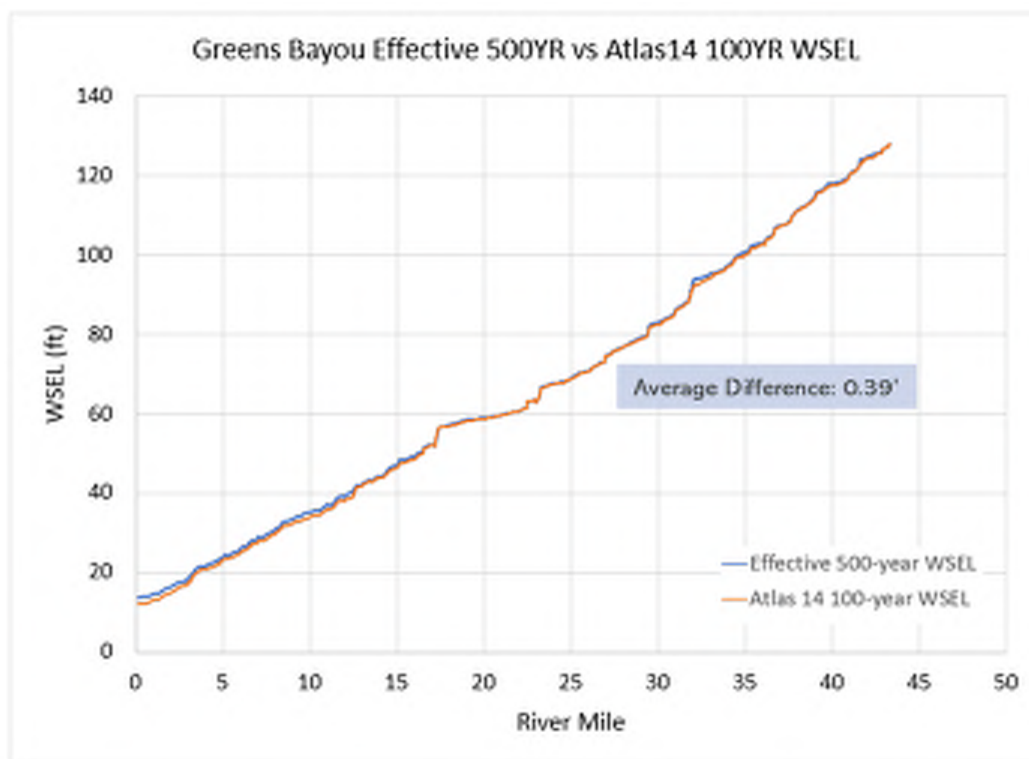
### Future Flood Hazard Approach

The Southern and Coastal Zones have similar topography and channel features and therefore were grouped into one analysis. The available effective Atlas 14 HCFCF models provide an estimated future conditions water surface elevation for the Southern and Coastal Zones based on an increase in rainfall. While the rainfall increase does not include additional increases as shown in the SJRMDP analysis, the models provide a guide for how increased rainfall can increase flooding in the region and can be used to estimate future floodplains.

An analysis of future development was not included for the Southern or Coastal zones due to lack of future floodplain information as well as the high density of development within these regions. While future development may have an impact on runoff, other factors such as increase in rainfall, subsidence, and sea level rise will result in more substantial changes to the floodplain extents. These regions also have high standards of floodplain development and detention criteria which minimize the impacts of future development.

### Comparison to Effective 500-year

The effective 500-year water surface elevations (WSELs) were compared with the modeled Atlas 14 100-year water surface elevations for several Harris County watersheds including Greens Bayou, Buffalo Bayou, White Oak Bayou, and Sims Bayou. An example of the comparison for Greens Bayou is shown below in **Figure 6. Appendix 2** shows additional plot comparisons throughout Harris County.



**Figure 6: Greens Bayou Water Surface Elevation Comparison**

### Future 100-year Flood Hazard Conclusion – All Zones

The SJRMDP modeling showed that the anticipated future 100-year flood hazard extents are reasonably consistent with the existing conditions 500-year flood hazard extents for the Northern Zone. This conclusion was also

supported by the HCFC model comparisons between the FEMA existing 500-yr and Atlas 14 100-yr for the Southern and Coastal Zones. While differences exist in flood hazard widths and water surface elevations, they were typically within an acceptable range for the purpose of Task 2B and support the general agreement between the future 100- and 500-year flood hazard comparison. The differences shown in water surface elevations and flood hazard extents are attributed to different modeling approaches and the approximate nature of the comparison analysis.

The comparisons show that the existing 500-year flood hazard area can be used as an appropriate estimate of the future 100-year flood hazard area. However, due to potential land changes caused by subsidence and sea level rise, buffers for those two factors were determined separately and applied to the existing 500-year flood hazard area to create the future 100-year floodplain extents.

## **Future 500-year Flood Hazard Approach**

The existing available information was reviewed to identify the approach for the future 500-year flood hazard based on the recommended approaches from the TWDB. Separate approaches for the Northern, Southern, and Coastal Zones are described below.

### **Northern Zone**

#### **San Jacinto Pre-Atlas 14**

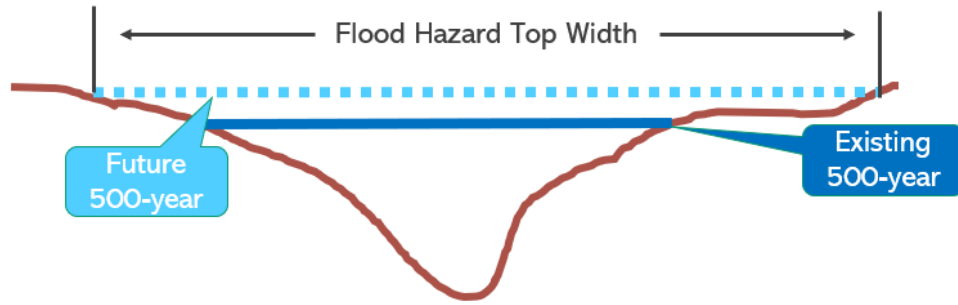
The SJRMDP provides a baseline condition for comparing future flood hazard to existing flood hazard. As previously mentioned, the modeling was based on Atlas 14 rainfall. However, the existing flood hazard information compiled as part of the RFP was based on pre-Atlas 14 rainfall depths. To obtain a comparison of future flood hazard areas, the SJRMDP models were simulated with the pre-Atlas 14 rainfall depths based on the Montgomery County Drainage Criteria Manual to understand the difference in inundation boundaries between pre-Atlas 14 rainfall and Atlas 14 rainfall. These comparisons informed the 500-year flood hazard approach and allowed a buffer to be estimated relative to the effective FEMA floodplain.

#### **San Jacinto Future Conditions**

Since the model included the latest modeling techniques, the rainfall could be updated to include an additional 15% over the previously used Atlas 14 rainfall. The 15% value was chosen to be representative of the range of increased rainfall patterns as recommended in the state climatology report to better understand the impacts of additional precipitation in the region. The updated models were simulated for the Atlas 14 + 15% 500-year storm event and compared to the existing flood hazard analyzed with the SJRMDP Pre-Atlas 14 rainfall modeling.

#### **Buffers**

Since there are not any existing floodplain maps and limited available modeling for events greater than the 500-year storm event to compare with or use as an approximation, future flood hazard boundary was estimated by applying a horizontal buffer based on future development and increases in rainfall to the existing 500-year floodplain boundaries (**Figure 7**). The average difference in flood hazard top width between the existing 500-year and future 500-year was calculated for multiple cross-sections along each evaluated channel and used to inform the boundary used for the Northern Zone.



**Figure 7: Flood Hazard Top Width**

The average difference in flood hazard layer top width within each of the zones was calculated, and then utilized as a ‘Development and Rainfall Patterns Buffer’ that could be added to the existing 0.2% floodplain. This ‘Development and Rainfall Patterns Buffer’ would extend the boundaries of the existing floodplain and would therefore act as an appropriate determination for the boundaries of the future conditions 0.2% flood hazard layer. The horizontal buffer is applied to the floodplain as a whole, so the calculated values include an increase on both sides of the channel. For example, a 500 foot buffer would be applied as 250 feet on either side of the channel. The results for the Northern Zone can be seen in **Table 3**. For reference, the average top width of the existing conditions 1% annual chance floodplain of the main stems is also included in the table.

**Table 3: Northern Zone 500-Year Top Width Comparison**

Channel	Existing Average Width of Floodplain (ft)	Average Difference of Flood Hazard Layer Top Width (ft)
Lake Creek	4,134	343
Peach Creek	2,100	488
Willow Creek	2,761	497
Spring Creek	3,335	565
Caney Creek	3,027	612
<b>Recommended Development and Rainfall Patterns Top Width Buffer</b>		<b>500</b>

## Southern & Coastal Zones

### HCFCF Atlas 14 Simulations

The available effective HCFCF models were simulated with Atlas 14 rainfall to provide an estimated future conditions water surface elevation for the Southern and Coastal zones based on an increase in rainfall. While the rainfall increase does not include additional rainfall increases as shown in the SJRMDP analysis, the models provide a guide for how rainfall can increase flooding in the region and can be used to estimate future floodplains.

An analysis of future development was not included for the Southern or Coastal zones due to lack of future floodplain information as well as the high density of development within these regions. While future development may have an impact on runoff, other factors such as increase in rainfall, subsidence, and sea level rise will have larger impacts. These regions also have higher standards of floodplain development and detention criteria which minimize the impacts of future development.

### Buffers

Similar to the Northern Zone, there are no existing floodplain maps and limited available modeling for events greater than the 500-year storm event to compare with or use as an approximation. Therefore, the approach selected to develop the future 500-year flood hazard layer was to estimate the boundary by applying a horizontal buffer to the existing 500-year floodplain boundaries. To inform an appropriate horizontal buffer, the average difference in flood hazard top width between the effective 500-year (Pre-Atlas 14) and the Atlas 14 500-year was calculated for multiple cross-sections along each evaluated channel.

The average difference in flood hazard layer top width within each of the zones was calculated, and then utilized as a 'Development and Rainfall Patterns Buffer' that could be added to the existing 0.2% floodplain. This 'Development and Rainfall Patterns Buffer' would extend the boundaries of the existing floodplain and would therefore act as an appropriate determination for the boundaries of the future conditions 0.2% flood hazard layer. The horizontal buffer is applied to the floodplain as a whole, so the calculated values include an increase on both sides of the channel. For example, a 850 foot buffer would be applied as 425 feet on either side of the channel. The results for the Southern and Coastal Zones can be seen in **Table 4**. For reference, the average top width of the existing conditions 1% annual chance floodplain of the main stems is also included in the table.

**Table 4: Southern & Coastal Zone Top 500-Year Width Comparison**

Channel	Existing Average Width of Floodplain (ft)	Average Difference of Flood Hazard Layer Top Width (ft)
Greens Bayou	4,502	701
Buffalo Bayou	1,210	817
White Oak Bayou	2,932	843
Sims Bayou	1,399	1,096
<b>Recommended Development and Rainfall Patterns Top Width Buffer</b>		<b>850</b>

The flood width boundaries calculated for the southern and coastal zones are much larger than those calculated for the northern zone. This is due to the flat and urbanized nature of the southern and coastal watersheds when compared to the northern zone watersheds.

### Minor Tributaries

Upon determining the buffer, an evaluation was done to determine how to apply the buffer across the region. The buffers were generated based on approximate models for the major streams within the Northern, Southern, and Coastal Zones. Minor tributaries to the streams may vary in characteristics which can affect the width of the flood hazard layer. Such characteristics include urbanization, topography, channel improvements, and existing channel

capacity. While an overall flood hazard buffer applied to each major stream and minor tributary may not most accurately show the future flood hazard, varying tributary buffers would require substantially more information than is currently available. Therefore, it was determined that the same flood hazard buffer for the main stems would also be applied to the tributaries. During future regional flood plans, reviewing the proposed buffer width along tributaries should be explored further. It would provide the most accurate representation of the future flood hazard boundary if additional information for that analysis becomes available.

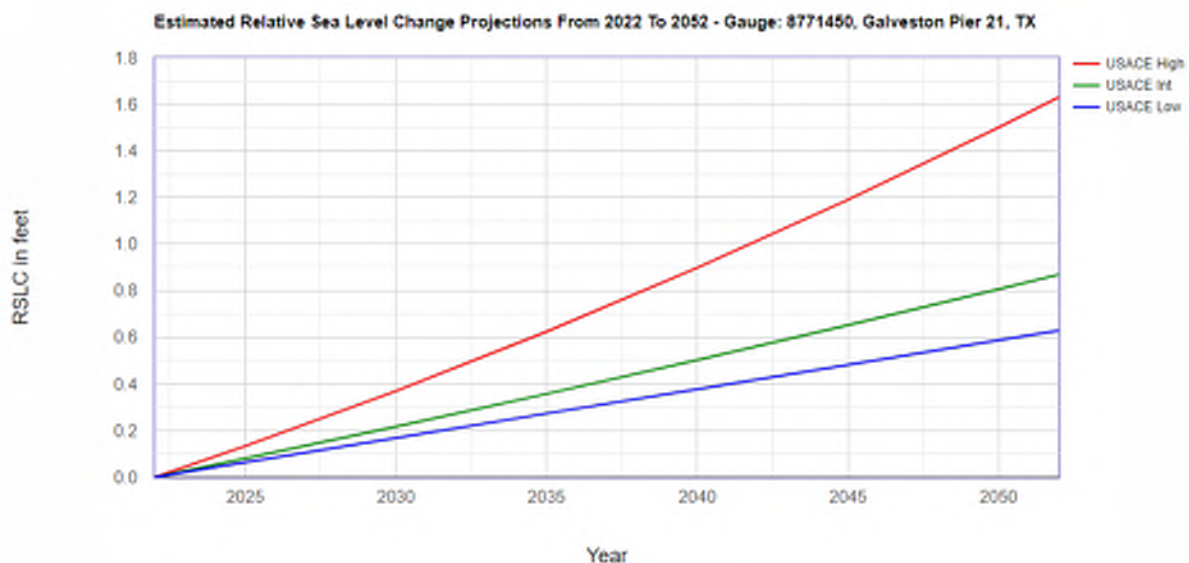
#### Future 500-year Flood Hazard Conclusion – All Zones

The comparisons show that with the addition of a calculated buffer, the existing 500-year flood hazard area can be used as an appropriate estimate of the future 500-year flood hazard area. Buffer factors include a development and rainfall patterns buffer, as well as sea level rise and subsidence buffers. The buffers for all three factors were determined separately and applied to the existing 500-year flood hazard area to create the future 500-year floodplain extents.

## Coastal Flood Hazard Analysis

### Sea Level Rise

The United States Army Corps of Engineers (USACE) has developed a tool to calculate the approximate sea level rise for a “high”, “intermediate”, and “low” scenario (**Figure 8**). The rate computed for the “high” scenario builds from the most recent Intergovernmental Panel on Climate Change (IPCC) and modified National Research Council (NRC) projections for a high rate of sea level rise (SLR). In Galveston Bay, the approximate “high” SLR projected by USACE over the next 30 years is 1.6 feet of SLR. The rate computed for the “intermediate” scenario builds from the most recent Intergovernmental Panel on Climate Change (IPCC) and modified National Research Council (NRC) projections for a moderate rate of SLR. In Galveston Bay, the approximate “intermediate” SLR projected by USACE over the next 30 years is 0.85 feet of SLR. The rate computed for the “low” scenario builds from historical rates of SLR to determine the low rate of SLR. In Galveston Bay, the approximate “low” SLR projected by USACE over the next 30 years is 0.6 feet of SLR. The “intermediate” scenario (0.85 feet of SLR) is the recommended estimation of SLR over the next 30 years based on the projections gathered from USACE.



**Figure 8: Estimated Sea Level Rise in Galveston Bay from 2022 to 2052 (USACE 2021)**



Using the “intermediate” SLR estimate, a horizontal buffer was determined to approximate the influence of SLR on the future condition coastal flood hazard. From the best available terrain data, transects of the coast were cut to determine the average overland slope in the Southern and Coastal Zones. The average overland slope for sea level rise was limited specifically to the coastal areas and does not include overland slopes further inland.

Using best available terrain data, an average slope of 4% was calculated for the coastal zone of the San Jacinto River Basin. The slope, refined to remove the channel bank slopes, was found for each zone, and is detailed in **Table 5** below. The slope was then translated into a horizontal distance for 0.85 feet of rise to determine the recommended buffer distance accounting for sea level rise. Ultimately, the recommended buffer for 0.85 feet of sea level rise was determined to be 315 feet of additional buffer for the Southern Zone and 570 feet for the Coastal Zone to be incorporated in the future conditions 1% and 0.2% flood hazard layer within the coastal zone and applicable portions of the southern zone.

**Table 5: Sea Level Rise Buffer Estimate**

	San Jacinto River Basin Zone		
	Northern	Southern	Coastal
Estimated Sea Level Rise over 30 years (feet)	N/A	0.85	0.85
Average Overland Slope (%)	N/A	0.27%	0.15%
<b>Estimated Zonal Sea Level Rise Buffer (Feet)</b>	<b>N/A</b>	<b>315</b>	<b>570</b>

## Subsidence

Actual ground level subsidence varies spatially. For the purposes of this study, subsidence is adopted as the average for each regulatory subsidence regions defined by the Harris-Galveston Subsidence District (HGSD). Future flood floodplains residing in corresponding subsidence regions are assumed to adopt subsidence projections unique to that region (this projection is subsequently transformed into a horizontal buffer onto the future floodplain). In this study, it is assumed that subsidence projections on a per subsidence region basis experience consistent subsidence rates for both creek bed and flood plain. This is an assumption that airs on the side of conservatism using available data and for informing future flood risk.

For each zone of the San Jacinto River Basin, an average subsidence rate was calculated using historical rates provided by HGSD and was then projected over 30 years to determine an approximate future ground elevation change (HGSD 2021). A similar approach to sea level rise (SLR) was utilized to determine the relationship between the vertical change of subsidence and a horizontal distance that would be incorporated into the total buffer distance. Using best available terrain data, an average slope was determined for each zone of the San Jacinto River Basin using a combination of coastal transects and inland cross sections. The slope was then translated into a horizontal distance to determine the recommended buffer distance accounting for subsidence. **Table 6** provides a summary of the approximate average subsidence rate, estimated subsidence over 30 years, average slopes calculated, and the estimated buffer distance for each zone. The recommended buffer for accounting for future subsidence is 55 feet for the northern zone, 340 feet for the southern zone, and 80 feet for the coastal zone to be incorporated in the future conditions 1% and 0.2% flood hazard layer.

**Table 6: San Jacinto River Basin Subsidence Recommendation**

	San Jacinto River Basin Zone		
	Northern	Southern	Coastal
Approximate Average Subsidence Rate (cm/yr)	-0.86	-1.10	-0.20
Estimated Subsidence over 30 years (feet)	-0.85	-1.08	-0.19
Average Overland Slope (%)	1.62%	0.32%	0.25%
<b>Estimated Zonal Subsidence Buffer (feet)</b>	<b>55</b>	<b>340</b>	<b>80</b>

### Future Flood Hazard Buffer Exceptions

The flood hazard area buffers described above were applied across the region to determine the extents of the future 100- and 500-year floodplains. These buffers were applied to all flood hazard areas except in a few instances where regional, man-made structures influence the flood hazard area. For all areas mentioned, additional analysis should be conducted to understand the implications of future growth in the region.

Within Harris County there are two accredited levee systems in the Spring Creek and the Cypress Creek watersheds. Since these levees were constructed with freeboard, it is anticipated that the future flood hazard areas would remain within the existing. Therefore, the floodplains were clipped to the extent of the existing conditions within the Inverness Forest Levee and Northgate Levee.

Within the planning region, there is one major water supply reservoir and two regional flood control facilities where water surface elevations are strictly controlled by operational gates. (Lake Houston is also a water supply reservoir within the region but water surface elevations during flood events are maintained by the large Amberson spillway rather than operational gates). These gate structures allow storm runoff to pass downstream. The gate operational protocols for each dam are based on maximum allowable upstream water surface elevations rather than volumes and flows. Therefore, within the areas influenced by the Lake Conroe Dam, Addicks Reservoir, and Barker Reservoir, the existing conditions flood hazard areas were used as the future conditions flood hazard areas for both the 1% and 0.2% storm events. Additional analysis should be conducted in future planning cycles to understand the future floodplains within these reservoirs.

### Flood Exposure Analysis

An exposure analysis was performed to identify the population and structures in the region that may be affected during the future 1% and 0.2% storm events. ArcGIS was utilized to intersect the future flood hazard layer and the study areas to determine the affected existing development, critical infrastructure, and low water crossings at risk of flooding.

The analysis performed was based on the flood exposure dataset that was created in Task 2A: Existing Condition Flood Risk Analyses. It includes the existing structures that are within the future flood hazard areas. Future



development (including population and structures) was not accounted for as part of this analysis due to the complexity and variability associated with predicting future structure locations.

The critical infrastructure that may be impacted and were taken into consideration while analyzing the future flood risk were medical facilities, government buildings, emergency operations centers and shelters, law enforcement facilities, fire stations, schools, nursing homes, airports, railyards, ports, power generating plants, transmission facilities and water/wastewater treatment plants. To facilitate alignment with concurrent GLO and USACE studies, structure types added to the critical infrastructure list include chemical plants, refineries, chemical storage facilities, oil and gas infrastructure and correctional facilities. The full list of critical infrastructure is subject to revision and requires approval from the San Jacinto Regional Flood Planning Group members.

## Conclusion

The Region 6 Flood Planning Group and its consultants have developed a procedure for generating potential future 1% and 0.2% flood risk data that generally follows Method 3 (a combination of Methods 1 and 2) of the TWDB's Technical Guidance document. Recommendations were developed for each of the three zones within the San Jacinto FPR to reflect differences in watershed characteristics more appropriately throughout the region.

- The existing 500-year floodplain was selected to serve as a proxy for the future 100-year flood hazard while also accounting for the effects of subsidence and sea level rise.
- For the future 500-year flood hazard, a 500- or 850-foot base buffer plus additional buffers for subsidence and sea level rise, as appropriate, were recommended to be added to the existing 500-year flood hazard boundary.

**Table 6** shows the proposed buffer widths that were determined for the future conditions' boundaries. Note that the buffer listed is a total top width buffer and should be divided in half to determine the extension of the future condition flood hazard layer on each side of an associated water body.

**Table 7: Future Flood Conditions Flood Hazard Approach**

### Future Conditions 1% Storm Event

*Existing 500-year + Buffer*

		Development and Rainfall Patterns Buffer (ft)	Subsidence Buffer (ft)	Sea Level Rise Buffer (ft)	Total Top Width Buffer (ft)
Northern Zone	All	0	55	0	55
Southern Zone	Riverine	0	340	0	340
	Coastal	0	340	315	655
Coastal Zone	Riverine	0	80	0	80
	Coastal	0	80	570	650

### Future Conditions 0.2% Storm Event

*Existing 500-year + Buffer*

		Development and Rainfall Patterns Buffer (ft)	Subsidence Buffer (ft)	Sea Level Rise Buffer (ft)	Total Top Width Buffer (ft)
Northern Zone	All	500	55	0	555
Southern Zone	Riverine	850	340	0	1,190
	Coastal	850	340	315	1,505
Coastal Zone	Riverine	850	80	0	930
	Coastal	850	80	570	1,500

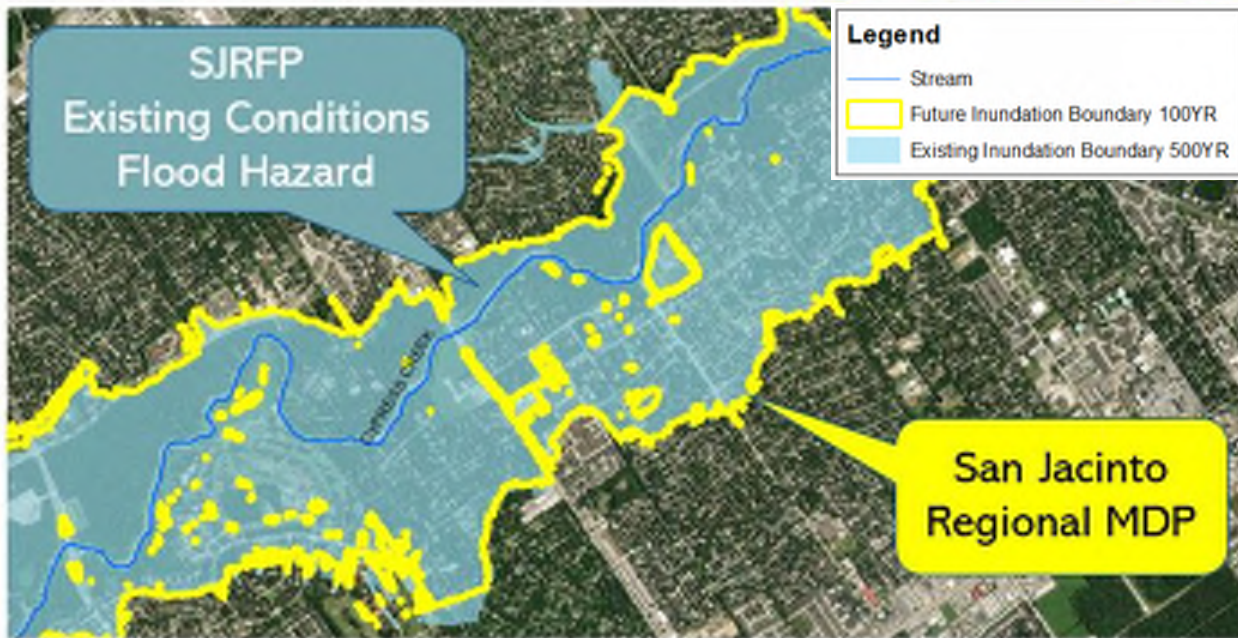
This methodology and approach were presented to the Technical Committee on February 3, 2022 and gained consensus and approval by the committee. The RFPG approved the approach on the March 3, 2022. The TWDB accepted the approach on March 23, 2022.

## REFERENCES

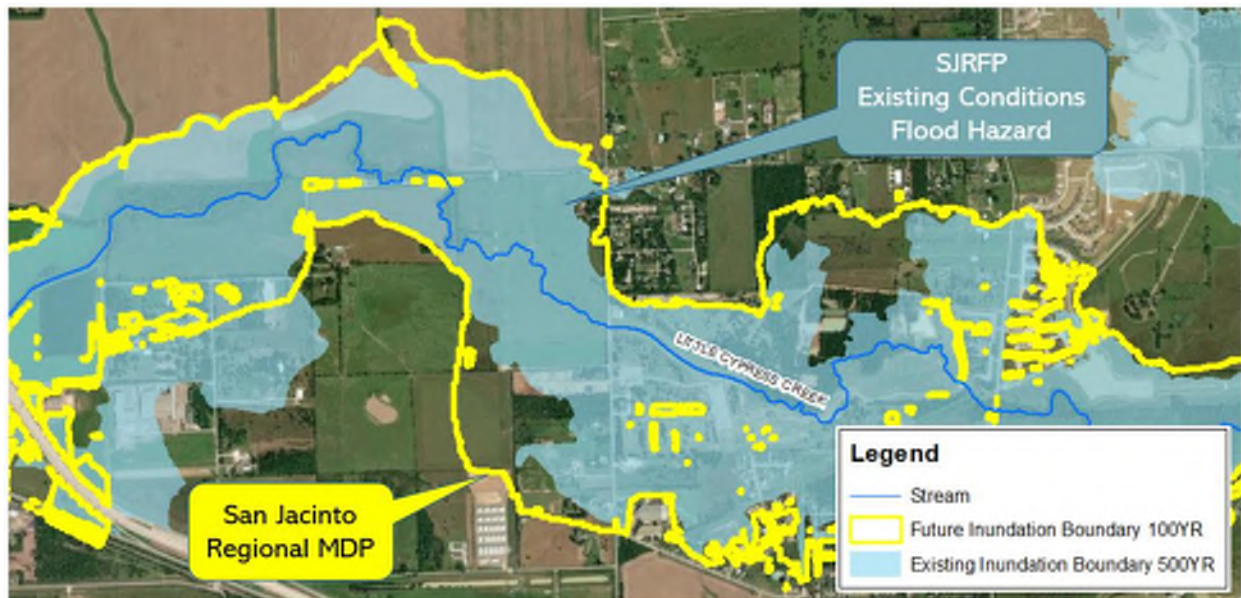
- “Climate Change and Sea-Level Rise Effects for the HSC ECIP Feasibility Study”, USACE;  
[https://www.swg.usace.army.mil/Portals/26/docs/Planning/Public%20Notices-Civil%20Works/HSC-ECIP%20FIFR-EIS/App%20C%20%20Att%203%20Climate-SLR%20Effects%20\(30Oct2019\).pdf?ver=2020-01-21-080804-863](https://www.swg.usace.army.mil/Portals/26/docs/Planning/Public%20Notices-Civil%20Works/HSC-ECIP%20FIFR-EIS/App%20C%20%20Att%203%20Climate-SLR%20Effects%20(30Oct2019).pdf?ver=2020-01-21-080804-863)
- “Climate Change Recommendations for Regional Flood Planning”, Texas A&M University;  
<https://climatexas.tamu.edu/files/CliChFlood.pdf>
- “Measuring Subsidence”, Harris-Galveston Subsidence District; <https://hgsubsidence.org/science-research/measuring-subsidence/>
- Sea-Level Change Curve Calculator (Version 2021.12), USACE; [https://cwbi-app.sec.usace.army.mil/rccslc/slcc\\_calc.html](https://cwbi-app.sec.usace.army.mil/rccslc/slcc_calc.html)
- Sea Level Rise Viewer, NOAA; <https://coast.noaa.gov/slr/>
- TWDB 2022 Texas State Water Plan, Planning Region H. <https://2022.texasstatewaterplan.org/region/H>

## **APPENDICES**

## Appendix 1: 100-Year Flood Hazard Comparison Maps



**Figure A1-1: Cypress Creek 100-Year Inundation Boundary Comparison**



**Figure A1-2: Little Cypress Creek 100-Year Inundation Boundary Comparison**

Appendix 2: 100-Year Flood Hazard Comparison Graphs

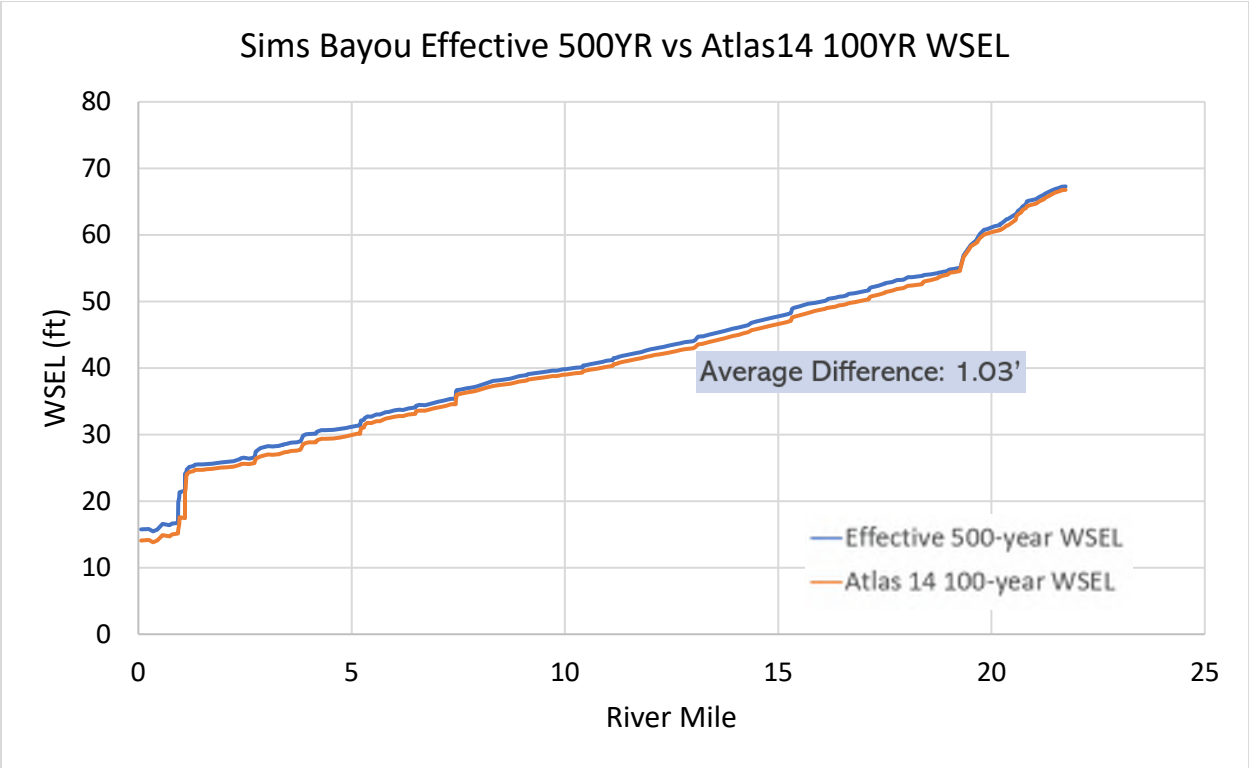


Figure A2-1: Sims Bayou Water Surface Elevation Comparison

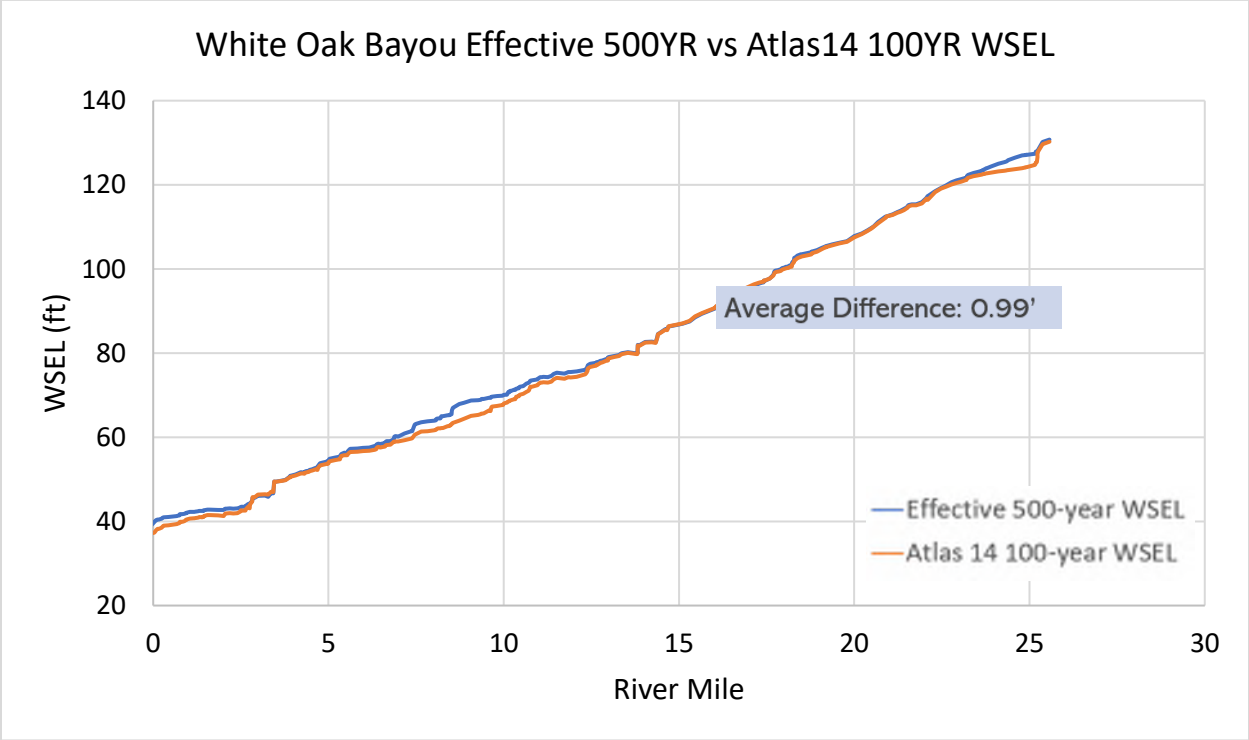
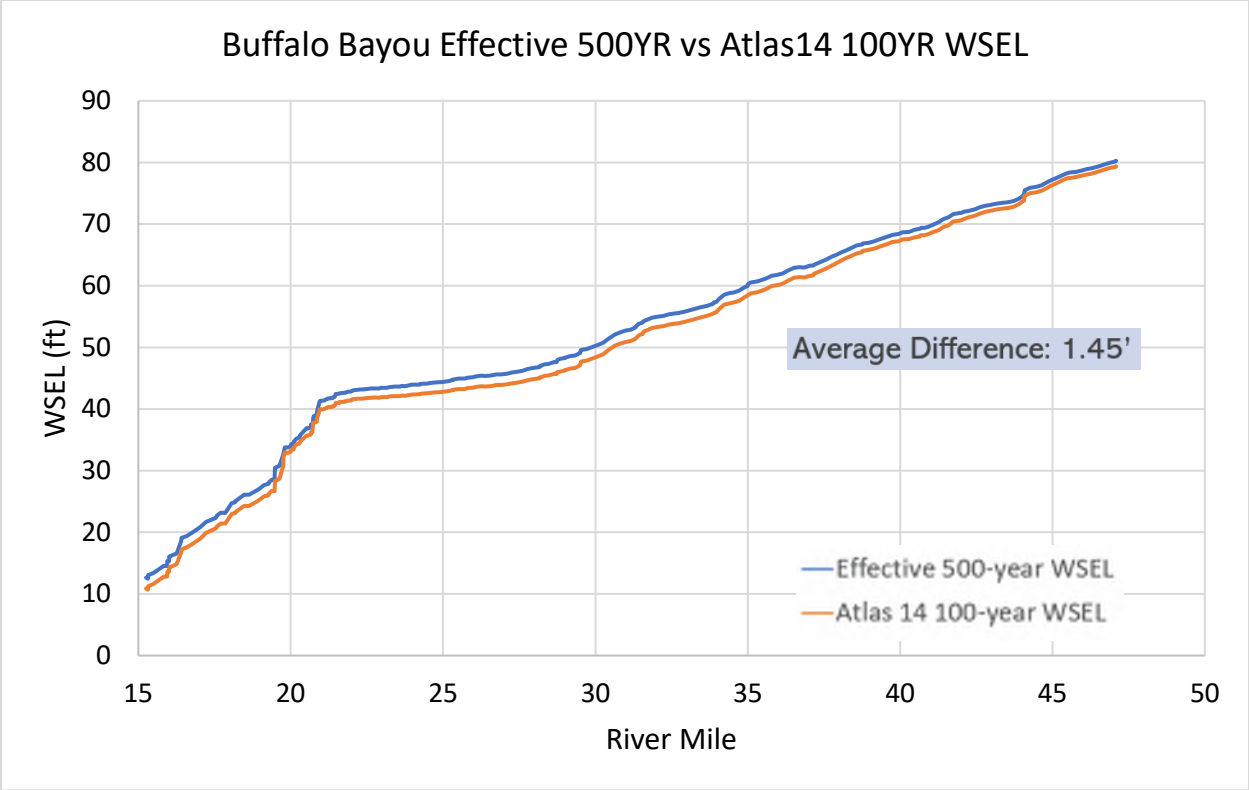


Figure A2-2: White Oak Bayou Water Surface Elevation Comparison



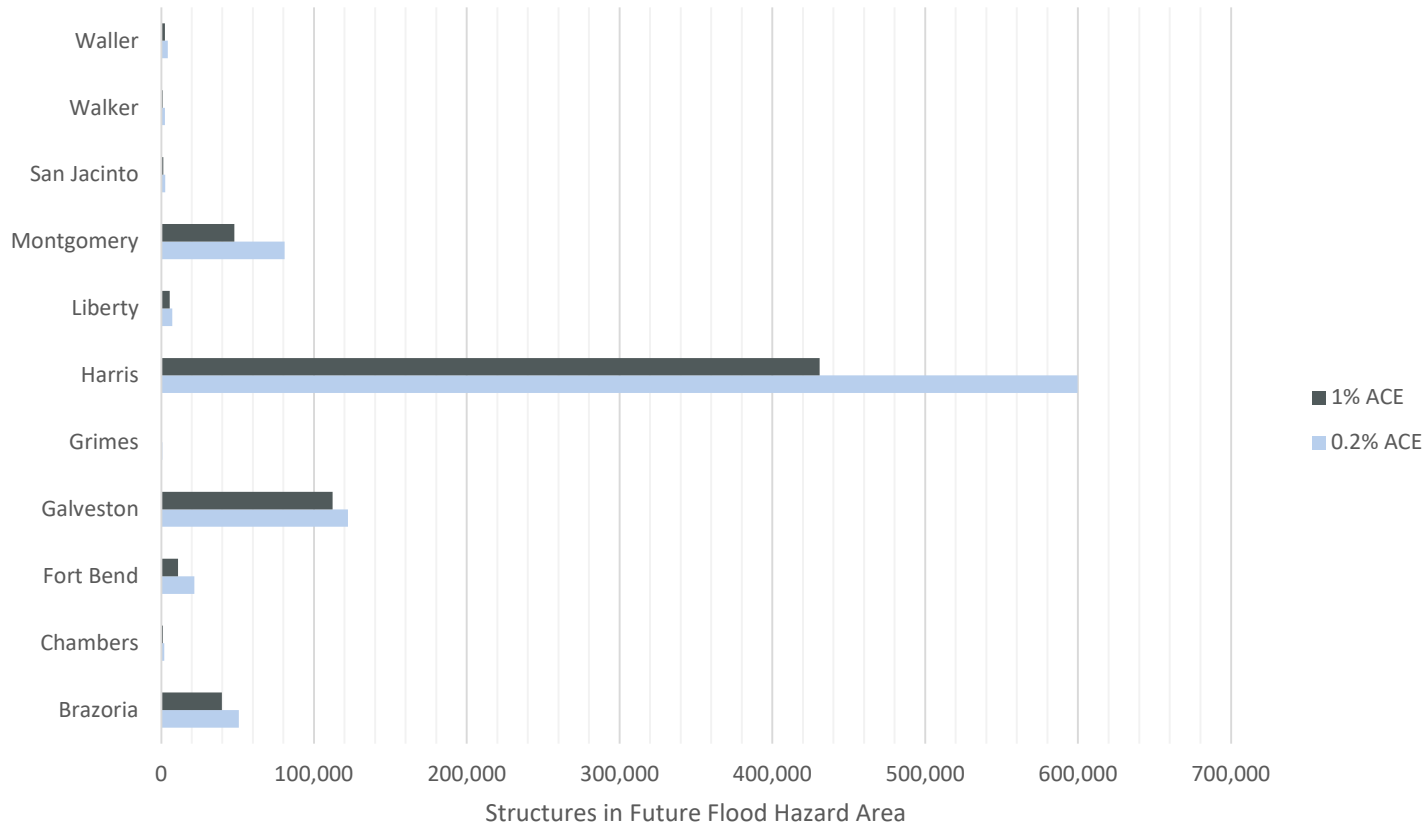
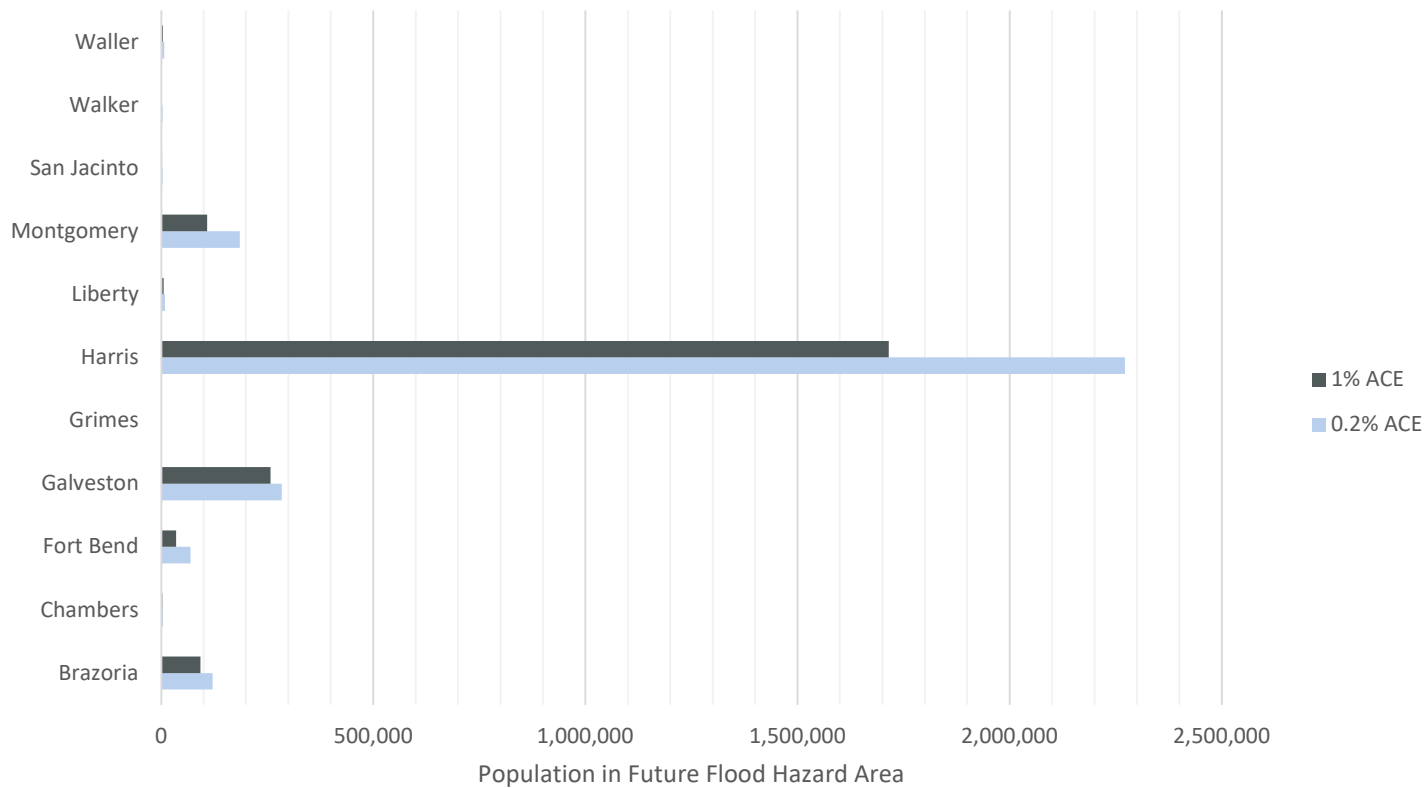
**Figure A2-3: Buffalo Bayou Water Surface Elevation Comparison**

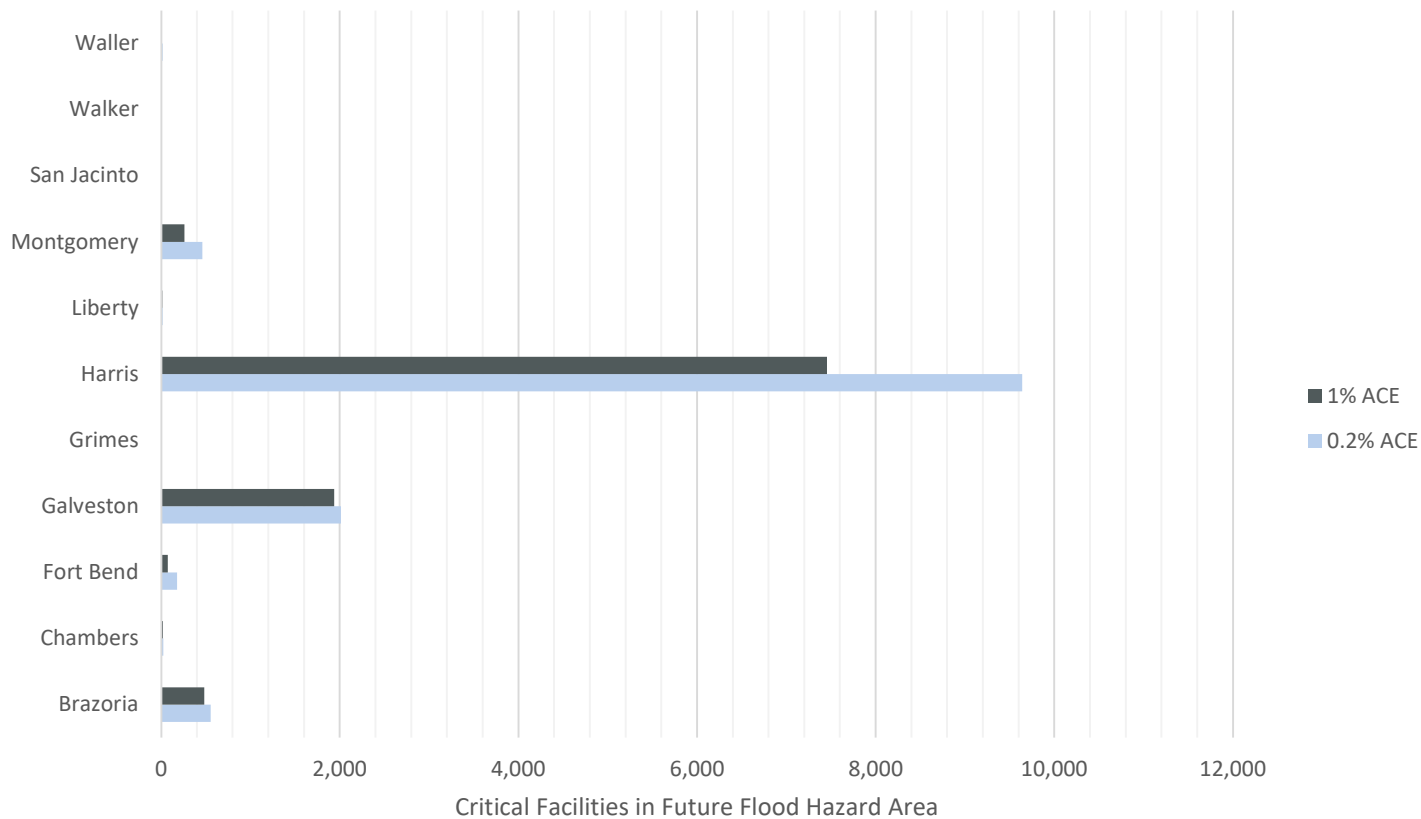
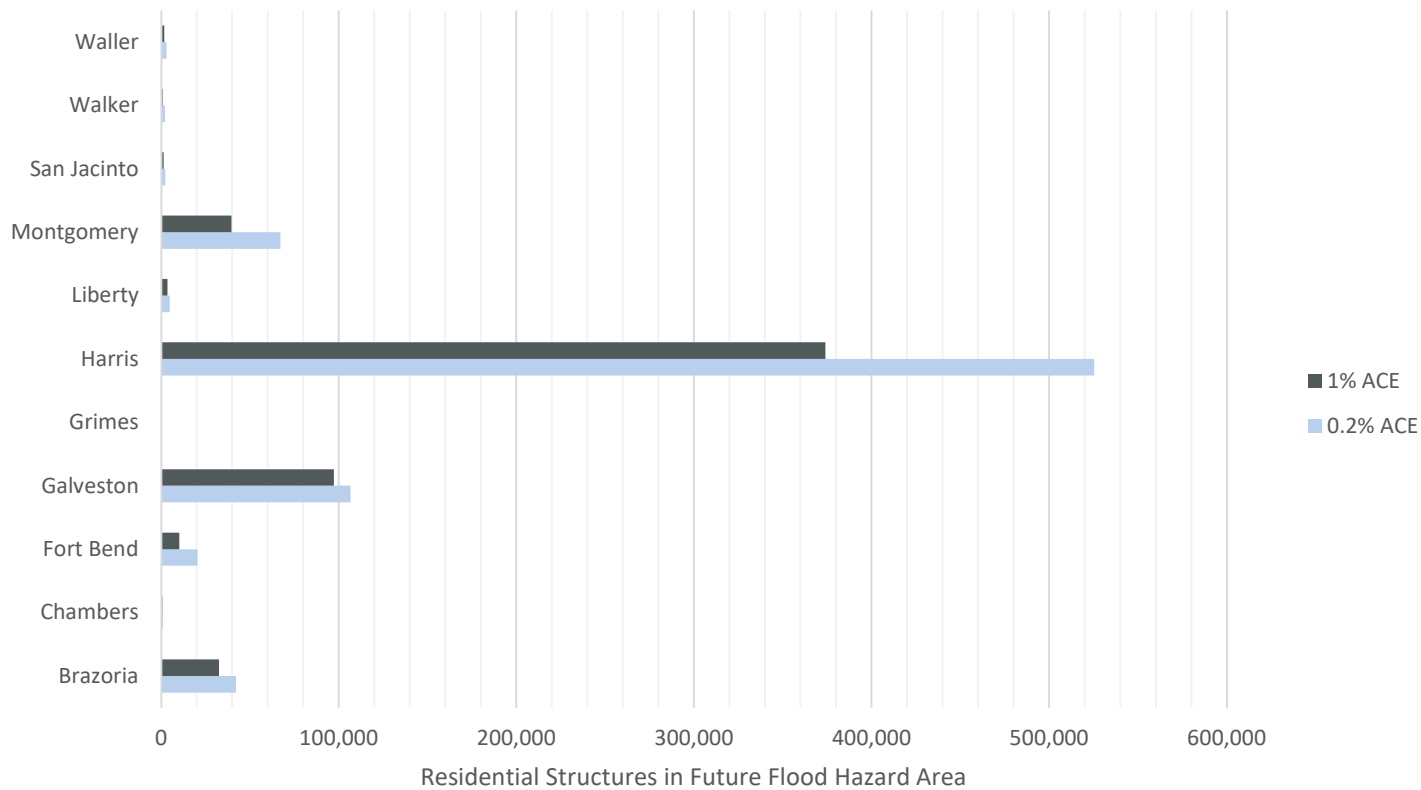
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**Appendix 2B-8:**  
**Future Conditions Flood Summary Tables**

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**Appendix 3A-1:**  
**Table 6 - Existing Floodplain Management Practices**

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Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
City of Alvin	Yes	Yes	Yes	Yes	Moderate	-	No	<a href="https://library.municode.com/tx/alvin/codes/code_of_ordinances?nodeId=PTIICOR_APXAFLDAPR">https://library.municode.com/tx/alvin/codes/code_of_ordinances?nodeId=PTIICOR_APXAFLDAPR</a>
City of Arcola	Yes	Yes	Yes	Yes	Moderate	-	No	
City of Bayou Vista	Yes	Yes	Yes	Yes	Moderate	-	No	
City of Baytown	Yes	Yes	Yes	Yes	Strong	-	No	<a href="https://library.municode.com/tx/baytown/codes/code_of_ordinances?nodeId=SPBLADECO">https://library.municode.com/tx/baytown/codes/code_of_ordinances?nodeId=SPBLADECO</a>
City of Beach City	Yes	Yes	Yes	Yes	Moderate	-	No	
City of Bellaire	Yes	Yes	Yes	Yes	Strong	-	No	<a href="https://library.municode.com/tx/bellaire/codes/code_of_ordinances?nodeId=PTIICOR_CH9BU_ARTII-AFLDAPR">https://library.municode.com/tx/bellaire/codes/code_of_ordinances?nodeId=PTIICOR_CH9BU_ARTII-AFLDAPR</a>
City of Brookside Village	Yes	Yes	Yes	Yes	Strong	-	No	
City of Bunker Hill Village	Yes	Yes	Yes	Yes	Strong	-	No	<a href="https://library.municode.com/tx/bunker_hill_village/codes/code_of_ordinances?nodeId=COOR_CH4DEBU_CO_ARTVDRFLDAPR">https://library.municode.com/tx/bunker_hill_village/codes/code_of_ordinances?nodeId=COOR_CH4DEBU_CO_ARTVDRFLDAPR</a>
City of Clear Lake Shores	Yes	Yes	Yes	Yes	Strong	-	No	<a href="https://library.municode.com/tx/clear_lake_shores/codes/code_of_ordinances?nodeId=COOR_CH38FLDAPR">https://library.municode.com/tx/clear_lake_shores/codes/code_of_ordinances?nodeId=COOR_CH38FLDAPR</a>
City of Cleveland	Yes	Yes	Yes	Yes	Moderate	-	No	<a href="https://library.municode.com/tx/cleveland/codes/code_of_ordinances?nodeId=PTIICOR_CH58FL_ARTIIFLDAPR">https://library.municode.com/tx/cleveland/codes/code_of_ordinances?nodeId=PTIICOR_CH58FL_ARTIIFLDAPR</a>
City of Coldspring	No	Yes	Yes	No	Low	-	No	
City of Conroe	Yes	Yes	Yes	Yes	Moderate	-	No	<a href="https://library.municode.com/tx/conroe/codes/code_of_ordinances?nodeId=SPBLADERE_CH78FL_ARTVPRFLHARE">https://library.municode.com/tx/conroe/codes/code_of_ordinances?nodeId=SPBLADERE_CH78FL_ARTVPRFLHARE</a>
City of Cut and Shoot	Yes	Yes	Yes	No	Low	-	No	
City of Dayton	Yes	Yes	Yes	Yes	Strong	-	No	<a href="http://online.encodeplus.com/regs/dayton-tx/doc-viewer.aspx?secid=217#secid=210">http://online.encodeplus.com/regs/dayton-tx/doc-viewer.aspx?secid=217#secid=210</a>
City of Deer Park	Yes	Yes	Yes	Yes	Strong	-	Yes	
City of Dickinson	Yes	Yes	Yes	Yes	Moderate	-	Yes	<a href="https://library.municode.com/tx/dickinson/codes/code_of_ordinances?nodeId=PTIICOR_CH14PLDE">https://library.municode.com/tx/dickinson/codes/code_of_ordinances?nodeId=PTIICOR_CH14PLDE</a>
City of El Lago	Yes	Yes	Yes	Yes	Strong	-	No	
City of Friendswood	Yes	Yes	Yes	Yes	Strong	-	No	<a href="https://library.municode.com/tx/friendswood/codes/code_of_ordinances?nodeId=PTIICOR_CH34FL">https://library.municode.com/tx/friendswood/codes/code_of_ordinances?nodeId=PTIICOR_CH34FL</a>
City of Fulshear	Yes	Yes	Yes	No	Low	-	No	<a href="https://library.municode.com/tx/fulshear/codes/code_of_ordinances">https://library.municode.com/tx/fulshear/codes/code_of_ordinances</a>
City of Galena Park	Yes	Yes	Yes	Yes	Strong	-	No	<a href="https://library.municode.com/tx/galena_park/codes/code_of_ordinances?nodeId=PTIICOR_CH26FLDAPR">https://library.municode.com/tx/galena_park/codes/code_of_ordinances?nodeId=PTIICOR_CH26FLDAPR</a>
City of Galveston	Yes	Yes	Yes	Yes	Strong	-	No	<a href="https://library.municode.com/tx/galveston/codes/code_of_ordinances?nodeId=PTIICOR_CH10BU_CO_ARTVIIIICIGAFLDAPROR">https://library.municode.com/tx/galveston/codes/code_of_ordinances?nodeId=PTIICOR_CH10BU_CO_ARTVIIIICIGAFLDAPROR</a>

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
City of Hedwig Village	Yes	Yes	Yes	No	Low	-	No	<a href="https://library.municode.com/tx/hedwig_village/codes/code_of_ordinances?nodeId=COOR_CH38FL">https://library.municode.com/tx/hedwig_village/codes/code_of_ordinances?nodeId=COOR_CH38FL</a>
City of Hillcrest Village	Yes	Yes	Yes	No	Low	-	No	
City of Hilshire Village	Yes	Yes	Yes	Yes	Strong	-	No	
City of Hitchcock	Yes	Yes	Yes	Yes	Moderate	-	No	<a href="https://library.municode.com/tx/hitchcock/codes/code_of_ordinances?nodeId=TITXVLAUS_CH152FLHAAR">https://library.municode.com/tx/hitchcock/codes/code_of_ordinances?nodeId=TITXVLAUS_CH152FLHAAR</a>
City of Houston	Yes	Yes	Yes	Yes	Strong	-	Yes	<a href="https://library.municode.com/tx/houston/codes/code_of_ordinances?nodeId=COOR_CH19FL">https://library.municode.com/tx/houston/codes/code_of_ordinances?nodeId=COOR_CH19FL</a> <a href="https://www.houstonpermittingcenter.org/office-city-engineer/floodplain-management-office#agency-links-2096">https://www.houstonpermittingcenter.org/office-city-engineer/floodplain-management-office#agency-links-2096</a>
City of Humble	Yes	Yes	Yes	Yes	Strong	-	No	
City of Hunters Creek Village	Yes	Yes	Yes	No	Low	-	No	
City of Huntsville	Yes	Yes	Yes	Yes	Moderate	-	No	
City of Iowa Colony	Yes	Yes	Yes	Yes	Moderate	-	No	
City of Jacinto City	Yes	Yes	Yes	Yes	Moderate	-	No	<a href="https://library.municode.com/tx/jacinto_city/codes/code_of_ordinances?nodeId=CH3BURE_S7FLDAPRRE">https://library.municode.com/tx/jacinto_city/codes/code_of_ordinances?nodeId=CH3BURE_S7FLDAPRRE</a>
City of Jamaica Beach	Yes	Yes	Yes	Yes	Moderate	-	No	<a href="http://www.ci.jamaicabeach.tx.us/Ordinances.htm">http://www.ci.jamaicabeach.tx.us/Ordinances.htm</a>
City of Jersey Village	Yes	Yes	Yes	Yes	Strong	-	No	<a href="https://library.municode.com/tx/jersey_village/codes/code_of_ordinances?nodeId=PTIICOOR_CH14BUDE_ARTIXSTDRLDAPR">https://library.municode.com/tx/jersey_village/codes/code_of_ordinances?nodeId=PTIICOOR_CH14BUDE_ARTIXSTDRLDAPR</a> <a href="https://www.jerseyvillagetx.com/page/city.flood_control">https://www.jerseyvillagetx.com/page/city.flood_control</a>
City of Katy	Yes	Yes	Yes	Yes	Strong	-	No	
City of Kemah	Yes	Yes	Yes	Yes	Strong	-	No	<a href="https://library.municode.com/tx/kemah/codes/code_of_ordinances?nodeId=CH46FL">https://library.municode.com/tx/kemah/codes/code_of_ordinances?nodeId=CH46FL</a>
City of La Marque	Yes	Yes	Yes	Yes	Moderate	-	No	<a href="https://library.municode.com/tx/la_marque/codes/code_of_ordinances?nodeId=PTIICOOR_CH32FLDAPR_ARTIGEPR_S32-1STAU">https://library.municode.com/tx/la_marque/codes/code_of_ordinances?nodeId=PTIICOOR_CH32FLDAPR_ARTIGEPR_S32-1STAU</a>
City of La Porte	Yes	Yes	Yes	Yes	Strong	-	No	<a href="http://laportetx.gov/495/Public-Improvement-Criterial-Manual">http://laportetx.gov/495/Public-Improvement-Criterial-Manual</a> <a href="https://library.municode.com/tx/la_porte/codes/code_of_ordinances?nodeId=SPBLAUSRE_CH94FL">https://library.municode.com/tx/la_porte/codes/code_of_ordinances?nodeId=SPBLAUSRE_CH94FL</a>
City of League City	Yes	Yes	Yes	Yes	Strong	-	No	<a href="https://www.leaguecity.com/1693/Development-Requirements">https://www.leaguecity.com/1693/Development-Requirements</a>
City of Liverpool	Yes	Yes	Yes	Yes	Moderate	-	No	
City of Magnolia	Yes	Yes	Yes	No	Low	-	No	
City of Manvel	Yes	Yes	Yes	Yes	Moderate	-	No	<a href="https://library.municode.com/tx/manvel/codes/code_of_ordinances?nodeId=PAIICOOR_CH32FLDAPR_ARTIIPRFLHARE_S32-58MAHO">https://library.municode.com/tx/manvel/codes/code_of_ordinances?nodeId=PAIICOOR_CH32FLDAPR_ARTIIPRFLHARE_S32-58MAHO</a>

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
City of Meadows Place	Yes	Yes	Yes	No	Low	-	No	<a href="https://cityofmeadowsplace.org/departments/public-works/flood-plain-management/">https://cityofmeadowsplace.org/departments/public-works/flood-plain-management/</a>
City of Missouri City	Yes	Yes	Yes	Yes	Strong	-	No	<a href="http://www.missouricitytx.gov/489/Floodplain-Management">http://www.missouricitytx.gov/489/Floodplain-Management</a> <a href="http://www.missouricitytx.gov/88/Storm-Water-Management-Program">http://www.missouricitytx.gov/88/Storm-Water-Management-Program</a> <a href="https://library.municode.com/tx/missouri_city/codes/code_of_ordinances?nodeId=PTIICOOR_CH42FLMA">https://library.municode.com/tx/missouri_city/codes/code_of_ordinances?nodeId=PTIICOOR_CH42FLMA</a>
City of Mont Belvieu	Yes	Yes	Yes	Yes	Moderate	-	No	<a href="https://library.municode.com/tx/mont_belvieu/codes/code_of_ordinances?nodeId=COOR_CH10BUBURE_ARTIIIFLMA_DIV2ADEN_S10-100FLADES">https://library.municode.com/tx/mont_belvieu/codes/code_of_ordinances?nodeId=COOR_CH10BUBURE_ARTIIIFLMA_DIV2ADEN_S10-100FLADES</a>
City of Montgomery	Yes	Yes	Yes	No	Low	-	No	
City of Morgan's Point	Yes	Yes	Yes	Yes	Moderate	-	No	<a href="https://library.municode.com/tx/morgans_point/codes/code_of_ordinances?nodeId=COOR_CH42FL">https://library.municode.com/tx/morgans_point/codes/code_of_ordinances?nodeId=COOR_CH42FL</a>
City of Nassau Bay	Yes	Yes	Yes	Yes	Strong	-	No	<a href="https://library.municode.com/tx/nassau_bay/codes/code_of_ordinances?nodeId=PTIICOOR_CH8.5FLDAPR">https://library.municode.com/tx/nassau_bay/codes/code_of_ordinances?nodeId=PTIICOOR_CH8.5FLDAPR</a>
City of New Waverly	Yes	Yes	Yes	Yes	Moderate	-	No	
City of North Cleveland	Unknown	No	No	No	None	-	No	
City of Oak Ridge North	Yes	Yes	Yes	Yes	Moderate	-	No	<a href="https://library.municode.com/tx/oak_ridge_north/codes/code_of_ordinances?nodeId=COOR_CH42FLDAPR">https://library.municode.com/tx/oak_ridge_north/codes/code_of_ordinances?nodeId=COOR_CH42FLDAPR</a>
City of Panorama Village	Yes	Yes	Yes	No	Low	-	No	
City of Pasadena	Yes	Yes	Yes	Yes	Strong	-	No	
City of Patton Village	Yes	Yes	Yes	Yes	Moderate	-	No	
City of Pearland	Yes	Yes	Yes	Yes	Moderate	-	No	<a href="https://library.municode.com/tx/pearland/codes/code_of_ordinances?nodeId=COOR_CH10_1-2FLDAPR">https://library.municode.com/tx/pearland/codes/code_of_ordinances?nodeId=COOR_CH10_1-2FLDAPR</a>
City of Piney Point Village	Yes	Yes	Yes	Yes	Strong	-	No	<a href="https://library.municode.com/tx/piney_point_village/codes/code_of_ordinances?nodeId=COOR_CH34FL">https://library.municode.com/tx/piney_point_village/codes/code_of_ordinances?nodeId=COOR_CH34FL</a>
City of Plantersville	Unknown	No	No	No	None	-	No	
City of Plum Grove	Unknown	Yes	Yes	No	Low	-	No	
City of Prairie View	Yes	Yes	Yes	Yes	Moderate	-	No	
City of Roman Forest	Yes	Yes	Yes	Yes	Moderate	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
City of Santa Fe	Yes	Yes	Yes	Yes	Moderate	-	No	<a href="https://library.municode.com/tx/santa_fe/codes/code_of_ordinances?nodeId=CH3CORE_S19FLHAARRE">https://library.municode.com/tx/santa_fe/codes/code_of_ordinances?nodeId=CH3CORE_S19FLHAARRE</a>
City of Seabrook	Yes	Yes	Yes	Yes	Strong	-	No	<a href="https://library.municode.com/tx/seabrook/codes/code_of_ordinances?nodeId=PTIICOOR_CH38FL">https://library.municode.com/tx/seabrook/codes/code_of_ordinances?nodeId=PTIICOOR_CH38FL</a>
City of Shenandoah	Yes	Yes	Yes	No	Low	-	No	<a href="https://library.municode.com/tx/shenandoah/codes/code_of_ordinances?nodeId=SPBLADERE_CH86FL">https://library.municode.com/tx/shenandoah/codes/code_of_ordinances?nodeId=SPBLADERE_CH86FL</a>
City of Shoreacres	Yes	Yes	Yes	Yes	Moderate	-	No	<a href="http://www.cityofshoreacres.us/MBFE.htm">http://www.cityofshoreacres.us/MBFE.htm</a> <a href="https://library.municode.com/tx/shoreacres/codes/code_of_ordinances?nodeId=CICO_CH30FL">https://library.municode.com/tx/shoreacres/codes/code_of_ordinances?nodeId=CICO_CH30FL</a>
City of South Houston	Yes	Yes	Yes	No	Low	-	No	<a href="https://library.municode.com/tx/south_houston/codes/code_of_ordinances?nodeId=COOR_CH6BUGEBURE_ARTIVFLDAPR">https://library.municode.com/tx/south_houston/codes/code_of_ordinances?nodeId=COOR_CH6BUGEBURE_ARTIVFLDAPR</a>
City of Southside Place	Yes	Yes	Yes	Yes	Strong	-	No	<a href="https://www.southsideplacetx.gov/DocumentCenter/View/1256/Flood-Damage-Prevention-Ordinance">https://www.southsideplacetx.gov/DocumentCenter/View/1256/Flood-Damage-Prevention-Ordinance</a>
City of Splendora	Yes	Yes	Yes	No	Low	-	No	<a href="https://library.municode.com/tx/splendora/codes/code_of_ordinances?nodeId=COOR_CH14FL">https://library.municode.com/tx/splendora/codes/code_of_ordinances?nodeId=COOR_CH14FL</a>
City of Spring Valley Village	Yes	Yes	Yes	Yes	Moderate	-	No	<a href="https://library.municode.com/tx/spring_valley_village/codes/code_of_ordinances?nodeId=CH3BUCO_ART3.1600FLDAPR">https://library.municode.com/tx/spring_valley_village/codes/code_of_ordinances?nodeId=CH3BUCO_ART3.1600FLDAPR</a>
City of Stafford	Yes	Yes	Yes	Yes	Moderate	-	No	<a href="https://library.municode.com/tx/stafford/codes/code_of_ordinances?nodeId=PTIICOOR_CH26DRFLCO">https://library.municode.com/tx/stafford/codes/code_of_ordinances?nodeId=PTIICOOR_CH26DRFLCO</a>
City of Stagecoach	Yes	Yes	Yes	Yes	Moderate	-	No	
City of Sugar Land	Yes	Yes	Yes	Yes	Strong	-	No	<a href="https://library.municode.com/tx/sugar_land/codes/land_development_code?nodeId=CH8FLDARERE">https://library.municode.com/tx/sugar_land/codes/land_development_code?nodeId=CH8FLDARERE</a>
City of Taylor Lake Village	Yes	Yes	Yes	Yes	Strong	-	No	<a href="https://library.municode.com/tx/taylor_lake_village/codes/code_of_ordinances?nodeId=COOR_CH34FL">https://library.municode.com/tx/taylor_lake_village/codes/code_of_ordinances?nodeId=COOR_CH34FL</a> <a href="https://www.taylorlakevillage.us/flood-information">https://www.taylorlakevillage.us/flood-information</a>
City of Texas City	Yes	Yes	Yes	Yes	Moderate	-	No	<a href="https://codelibrary.amlegal.com/codes/texascity/latest/texascity_tx/0-0-0-8877">https://codelibrary.amlegal.com/codes/texascity/latest/texascity_tx/0-0-0-8877</a>
The Woodlands Township	No	No	No	No	None	-	No	
City of Tiki Island	Yes	Yes	Yes	Yes	Moderate	-	No	<a href="https://library.municode.com/tx/tiki_island/codes/code_of_ordinances?nodeId=COOR_CH14EN_ARTIIFLPRCO">https://library.municode.com/tx/tiki_island/codes/code_of_ordinances?nodeId=COOR_CH14EN_ARTIIFLPRCO</a>
City of Todd Mission	Yes	Yes	No	No	Low	-	No	
City of Tomball	Yes	Yes	Yes	Yes	Strong	-	No	<a href="https://library.municode.com/tx/tomball/codes/code_of_ordinances?nodeId=PTIICOOR_CH10BUBURE_ARTVIIIFLDAPR">https://library.municode.com/tx/tomball/codes/code_of_ordinances?nodeId=PTIICOOR_CH10BUBURE_ARTVIIIFLDAPR</a>

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
City of Waller	Yes	Yes	Yes	Yes	Moderate	-	No	<a href="https://library.municode.com/tx/waller/codes/code_of_ordinances?nodeId=CD_OR_D_CH34FL">https://library.municode.com/tx/waller/codes/code_of_ordinances?nodeId=CD_OR_D_CH34FL</a>
City of Webster	Yes	Yes	Yes	Yes	Moderate	-	Yes	<a href="https://library.municode.com/tx/webster/codes/code_of_ordinances?nodeId=PTIIC_OOR_CH42FL">https://library.municode.com/tx/webster/codes/code_of_ordinances?nodeId=PTIIC_OOR_CH42FL</a>
City of West University Place	Yes	Yes	Yes	Yes	Strong	-	No	<a href="https://library.municode.com/tx/west_university_place/codes/code_of_ordinances?nodeId=PTIICOOR_CH18BUDE_ARTIXFLDAPR">https://library.municode.com/tx/west_university_place/codes/code_of_ordinances?nodeId=PTIICOOR_CH18BUDE_ARTIXFLDAPR</a>
City of Willis	Yes	Yes	Yes	Yes	Moderate	-	No	
City of Woodbranch Village	Yes	Yes	Yes	No	Low	-	No	
Town of Woodloch	Yes	Yes	Yes	Yes	Moderate	-	No	
Brazoria County	Yes	Yes	Yes	Yes	Moderate	-	No	
Chambers County	Yes	Yes	Yes	Yes	Moderate	-	No	
Fort Bend County	Yes	Yes	Yes	Yes	Strong	-	No	
Galveston County	Yes	Yes	Yes	Yes	Strong	-	No	
Grimes County	Yes	Yes	Yes	No	Low	-	No	<a href="https://www.grimescountytexas.gov/upload/page/0090/Subdivision%20Rules%20and%20Regs%202011%20rev%202018.pdf">https://www.grimescountytexas.gov/upload/page/0090/Subdivision%20Rules%20and%20Regs%202011%20rev%202018.pdf</a>
Harris County	Yes	Yes	Yes	Yes	Strong	-	No	
Liberty County	Yes	Yes	Yes	Yes	Moderate	-	No	
Montgomery County	Yes	Yes	Yes	Yes	Moderate	-	No	<a href="https://cms1files.revize.com/montgomerycountytexas/document_center/1Flood%20Map/Montgomery%20County%20Floodplain%20Management%20Regulations.pdf">https://cms1files.revize.com/montgomerycountytexas/document_center/1Flood%20Map/Montgomery%20County%20Floodplain%20Management%20Regulations.pdf</a>
San Jacinto County	Yes	Yes	Yes	Yes	Moderate	-	No	
Walker County	Yes	Yes	Yes	Yes	Moderate	-	No	
Waller County	Yes	Yes	Yes	Yes	Strong	-	No	
Baybrook Management District	No	No	No	No	None	-	No	
Coastal Prairie Conservancy	No	No	No	No	None	-	No	
Woodlands Water Agency	No	No	No	No	None	-	No	
Gulf Coast Protection District	No	No	No	No	None	-	No	



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Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Brazoria County MD 1	No	No	No	No	None	-	No	
Houston-Galveston Area Council	No	No	No	No	None	-	No	
Chambers-Liberty Counties Navigation District	No	No	No	No	None	-	No	
Brazos Valley Council of Governments	No	No	No	No	None	-	No	
City of Kemah MMD 1	No	No	No	No	None	-	No	
Conroe MMD 3	No	No	No	No	None	-	No	
Conroe MMD 1	No	No	No	No	None	-	No	
Conroe MMD 2	No	No	No	No	None	-	No	
Deep East Texas Council of Governments	No	No	No	No	None	-	No	
Fall Creek Management District	No	No	No	No	None	-	No	
East Aldine Management District	No	No	No	No	None	-	No	
Galveston County Navigation District 1	No	No	No	No	None	-	No	
Harborside Management District	No	No	No	No	None	-	No	
Greater Sharpstown Management District	No	No	No	No	None	-	No	

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Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Greenspoint District	No	No	No	No	None	-	No	
Greater Northside Management District	No	No	No	No	None	-	No	
Gulf Coast Waste Disposal Authority	No	No	No	No	None	-	No	
Harris County Municipal Management District 1	No	No	No	No	None	-	No	
Galveston County Management District 1	No	No	No	No	None	-	No	
Houston Downtown Management District	No	No	No	No	None	-	No	
Greater Southeast Management District	No	No	No	No	None	-	No	
Generation Park Management District	No	No	No	No	None	-	No	
Harris Montgomery Counties Management District	No	No	No	No	None	-	No	
Spring Branch Management District	No	No	No	No	None	-	No	
International Management District	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Towne Lake Management District	No	No	No	No	None	-	No	
NASA Area Management District	No	No	No	No	None	-	No	
West Galveston Island Conservation District	No	No	No	No	None	-	No	
Montgomery County Management District 1	No	No	No	No	None	-	No	
Port Freeport	No	No	No	No	None	-	No	
Port of Houston Authority	No	No	No	No	None	-	No	
Spectrum Management District	No	No	No	No	None	-	No	
Waller Town Center Management District	No	No	No	No	None	-	No	
Pearland Municpal Management Dist 1	No	No	No	No	None	-	No	
Near Northside Management District	No	No	No	No	None	-	No	
Montrose Management District	No	No	No	No	None	-	No	
Westchase District	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Near Northwest Management District	No	No	No	No	None	-	No	
Village at Katy Development District	No	No	No	No	None	-	No	
West Ranch Managment District	No	No	No	No	None	-	No	
Richfield Ranch Management District	No	No	No	No	None	-	No	
Midtown Management District	No	No	No	No	None	-	No	
Westwood Management District	No	No	No	No	None	-	No	
Missouri City Management District 1	No	No	No	No	None	-	No	
Tarkington Management District 1	No	No	No	No	None	-	No	
Plum Creek Management District 1	No	No	No	No	None	-	No	
Liberty County MMD 1	No	No	No	No	None	-	No	
Wood Trace Management District	No	No	No	No	None	-	No	
North Harris County Regional Water Authority	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Gulf Coast Water Authority	No	No	No	No	None	-	No	
Harris County MUD 571	No	No	No	No	None	-	No	
West Harris County MUD 5	No	No	No	No	None	-	No	
Trail of the Lakes MUD	No	No	No	No	None	-	No	
Harris County MUD 458	No	No	No	No	None	-	No	
West Harris County MUD 1	No	No	No	No	None	-	No	
Sunbelt FWSD	No	No	No	No	None	-	No	
East Montgomery County Improvement District	No	No	No	No	None	-	No	
Greater East End MGMT District	No	No	No	No	None	-	No	
Harris County MUD 200	No	No	No	No	None	-	No	
Harris County Improvement District 20	No	No	No	No	None	-	No	
Harris County Improvement District 21	No	No	No	No	None	-	No	
Harris County Improvement District 5	No	No	No	No	None	-	No	
Harris County Improvement District 9	No	No	No	No	None	-	No	
Montgomery County MUD 125	No	No	No	No	None	-	No	

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Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Brazoria County MUD 57	No	No	No	No	None	-	No	
Kickapoo FWSD of Waller County	No	No	No	No	None	-	No	
Harris County MUD 393	No	No	No	No	None	-	No	
Plum Creek FWSD 1	No	No	No	No	None	-	No	
Northwest Harris County MUD 36	No	No	No	No	None	-	No	
Fort Bend County MUD 134 C	No	No	No	No	None	-	No	
Galveston County MUD 34	No	No	No	No	None	-	No	
Harris County MUD 415	No	No	No	No	None	-	No	
Harris County Improvement District 1	No	No	No	No	None	-	No	
Brazoria County MUD 29	No	No	No	No	None	-	No	
Central Harris County Regional Water Authority	No	No	No	No	None	-	No	
Montgomery County MUD 132	No	No	No	No	None	-	No	
Harris County MUD 531	No	No	No	No	None	-	No	
Harris County MUD 360	No	No	No	No	None	-	No	
Cinco Southwest MUD 3	No	No	No	No	None	-	No	
Harris County MUD 460	No	No	No	No	None	-	No	
Magnolia Woods MUD 1	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Galveston County MUD 61	No	No	No	No	None	-	No	
Galveston County MUD 62	No	No	No	No	None	-	No	
Galveston County MUD 63	No	No	No	No	None	-	No	
Harris County MUD 319	No	No	No	No	None	-	No	
Harris County MUD 491	No	No	No	No	None	-	No	
Montgomery County MUD 115	No	No	No	No	None	-	No	
Harris County MUD 401	No	No	No	No	None	-	No	
Harris County WCID 119	No	No	No	No	None	-	No	
Harris County MUD 233	No	No	No	No	None	-	No	
Harris County MUD 557	No	No	No	No	None	-	No	
Magnolia Woods MUD 1	No	No	No	No	None	-	No	
Porter SUD	No	No	No	No	None	-	No	
Galveston County WCID 1	No	No	No	No	None	-	No	
Bauer Landing WCID	No	No	No	No	None	-	No	
Harris County MUD 476	No	No	No	No	None	-	No	
Harris County MUD 520	No	No	No	No	None	-	No	
Harris County MUD 1	No	No	No	No	None	-	No	
Harris County MUD 388	No	No	No	No	None	-	No	
CNP Utility District	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Harris County MUD 497	No	No	No	No	None	-	No	
Harris County MUD 477	No	No	No	No	None	-	No	
West Harris County MUD 11	No	No	No	No	None	-	No	
Harris County Improvement District 7	No	No	No	No	None	-	No	
Airline Improvement District	No	No	No	No	None	-	No	
Cinco Southwest MUD 2	No	No	No	No	None	-	No	
Montgomery County MUD 161	No	No	No	No	None	-	No	
Galveston County MUD 72	No	No	No	No	None	-	No	
West Keegans Bayou Improvement District	No	No	No	No	None	-	No	
West Harris County RWA	No	No	No	No	None	-	No	
Montgomery County MUD 83	No	No	No	No	None	-	No	
Harris County MUD 144	No	No	No	No	None	-	No	
Harris County MUD 11	No	No	No	No	None	-	No	
Interstate MUD	No	No	No	No	None	-	No	
Quail Valley Utility District	No	No	No	No	None	-	No	
Harris County MUD 104	No	No	No	No	None	-	No	
Kleinwood MUD	No	No	No	No	None	-	No	



Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Sienna Plantation LID	Yes	No	No	Yes	Moderate	-	No	
Terranova West MUD	No	No	No	No	None	-	No	
Harris County MUD 82	No	No	No	No	None	-	No	
Chambers County Improvement District 3	No	No	No	No	None	-	No	
Liberty County MUD 6	No	No	No	No	None	-	No	
Fort Bend-Waller Counties MUD 2	No	No	No	No	None	-	No	
Brazoria County MUD 38	No	No	No	No	None	-	No	
Montgomery County MUD 162	No	No	No	No	None	-	No	
Montgomery County MUD 163	No	No	No	No	None	-	No	
Fort Bend County MUD 57	No	No	No	No	None	-	No	
Harris County WCID 96	No	No	No	No	None	-	No	
Brazoria County MUD 25	No	No	No	No	None	-	No	
Harris County Utility District 16	No	No	No	No	None	-	No	
Harris County MUD 439	No	No	No	No	None	-	No	
Montgomery County MUD 15	No	No	No	No	None	-	No	
Harris County MUD 382	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Harris County MUD 148	No	No	No	No	None	-	No	
Montgomery County MUD 6	No	No	No	No	None	-	No	
Harris County MUD 421	No	No	No	No	None	-	No	
Cinco MUD 14	No	No	No	No	None	-	No	
Fort Bend County MUD 161	No	No	No	No	None	-	No	
Roman Forest Consolidated MUD	No	No	No	No	None	-	No	
East Montgomery County MUD 13	No	No	No	No	None	-	No	
Fort Bend County MUD 21	No	No	No	No	None	-	No	
Green Trails MUD	No	No	No	No	None	-	No	
Faulkey Gully MUD	No	No	No	No	None	-	No	
Emerald Forest Utility District	No	No	No	No	None	-	No	
Harris County MUD 536	No	No	No	No	None	-	No	
Chambers County Improvement District 2	No	No	No	No	None	-	No	
Harris County MUD 502	No	No	No	No	None	-	No	
Waller County MUD 9	No	No	No	No	None	-	No	
CY Fair Community Improvement District	No	No	No	No	None	-	No	
Harris County MUD 503	No	No	No	No	None	-	No	
Harris County MUD 518	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Harris County MUD 525	No	No	No	No	None	-	No	
Southern Montgomery County MUD	No	No	No	No	None	-	No	
Montgomery County MUD 103	No	No	No	No	None	-	No	
Harris County MUD 505	No	No	No	No	None	-	No	
Brazoria County MUD 2	No	No	No	No	None	-	No	
West Park MUD	No	No	No	No	None	-	No	
Harris County MUD 504	No	No	No	No	None	-	No	
Montgomery County MUD 107	No	No	No	No	None	-	No	
Montgomery County MUD 101	No	No	No	No	None	-	No	
Northwest Harris County MUD 32	No	No	No	No	None	-	No	
Northeast Harris County MUD 1	No	No	No	No	None	-	No	
Harris County MUD 127	No	No	No	No	None	-	No	
Harris County MUD 437	No	No	No	No	None	-	No	
Brazos Bend Water Authority	No	No	No	No	None	-	No	
East Montgomery County MUD 8	No	No	No	No	None	-	No	
East Montgomery County MUD 9	No	No	No	No	None	-	No	
East Montgomery County MUD 10	No	No	No	No	None	-	No	
East Montgomery County MUD 11	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Montgomery County WCID 1	No	No	No	No	None	-	No	
Clear Lake City Water Authority	No	No	No	No	None	-	No	
Hardin Store Road MUD 1	No	No	No	No	None	-	No	
Chambers-Liberty Counties Improvement District	No	No	No	No	None	-	No	
Galveston County MUD 64	No	No	No	No	None	-	No	
Brazoria-Fort Bend County MUD 1	No	No	No	No	None	-	No	
Waller County MUD 1	No	No	No	No	None	-	No	
Harris County MUD 191	No	No	No	No	None	-	No	
Cinco Southwest MUD 4	No	No	No	No	None	-	No	
Harris County Improvement District 8	No	No	No	No	None	-	No	
Harris County Improvement District 13	No	No	No	No	None	-	No	
Harris County Improvement District 15	No	No	No	No	None	-	No	
Harris County MUD 290	No	No	No	No	None	-	No	
Montgomery County MUD 84	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Chambers County Improvement District 1	No	No	No	No	None	-	No	
Chambers County MUD 1	No	No	No	No	None	-	No	
Montgomery County MUD 102	No	No	No	No	None	-	No	
Harris County MUD 427	No	No	No	No	None	-	No	
Harris County MUD 428	No	No	No	No	None	-	No	
Harris County MUD 429	No	No	No	No	None	-	No	
Coastal Water Authority	No	No	No	No	None	-	No	
Galveston County WCID 8	No	No	No	No	None	-	No	
Montgomery County MUD 98	No	No	No	No	None	-	No	
Montgomery County MUD 94	No	No	No	No	None	-	No	
Harris County MUD 572	No	No	No	No	None	-	No	
Montgomery County MUD 177	No	No	No	No	None	-	No	
East Montgomery County MUD 14	No	No	No	No	None	-	No	
Galveston County MUD 65	No	No	No	No	None	-	No	
Montgomery County MUD 128	No	No	No	No	None	-	No	
Montgomery County MUD 124	No	No	No	No	None	-	No	
Montgomery County WCID 3	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Southeast Montgomery County MUD 1	No	No	No	No	None	-	No	
Montgomery County MUD 127	No	No	No	No	None	-	No	
Harris County MUD 478	No	No	No	No	None	-	No	
Montgomery County MUD 130	No	No	No	No	None	-	No	
Luce Bayou PUD	No	No	No	No	None	-	No	
Galveston County MUD 54	No	No	No	No	None	-	No	
Brazoria County MUD 34	No	No	No	No	None	-	No	
Harris County MUD 498	No	No	No	No	None	-	No	
Addicks Utility District	No	No	No	No	None	-	No	
Brazoria County MUD 31	No	No	No	No	None	-	No	
Highland MUD	No	No	No	No	None	-	No	
Montgomery County MUD 100	No	No	No	No	None	-	No	
Harris County Road Improvement District 2	No	No	No	No	None	-	No	
Harris County MUD 499	No	No	No	No	None	-	No	
Prestonwood Forest Utility District	No	No	No	No	None	-	No	
Montgomery County MUD 104	No	No	No	No	None	-	No	
Montgomery County MUD 117	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Harris County MUD 189	No	No	No	No	None	-	No	
Spring West MUD	No	No	No	No	None	-	No	
Harris County WCID 132	No	No	No	No	None	-	No	
Harris-Waller Counties MUD 2	No	No	No	No	None	-	No	
Spring Creek Utility District	No	No	No	No	None	-	No	
Westwood Magnolia Parkway Improvement District	No	No	No	No	None	-	No	
Blaketree MUD 1 of Montgomery County	No	No	No	No	None	-	No	
Harris County MUD 286	No	No	No	No	None	-	No	
Harris County MUD 70	No	No	No	No	None	-	No	
Brazoria County MUD 3	No	No	No	No	None	-	No	
Harris County MUD 186	No	No	No	No	None	-	No	
Harris County MUD 257	No	No	No	No	None	-	No	
Harris County MUD 231	No	No	No	No	None	-	No	
Camfield MUD	No	No	No	No	None	-	No	
Harris County MUD 346	No	No	No	No	None	-	No	
Montgomery County MUD 85	No	No	No	No	None	-	No	
Montgomery County MUD 87	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Harris County MUD 342	No	No	No	No	None	-	No	
Fort Bend County MUD 37	No	No	No	No	None	-	No	
Galveston County MUD 13	No	No	No	No	None	-	No	
Harris County MUD 19	No	No	No	No	None	-	No	
Harris County MUD 6	No	No	No	No	None	-	No	
Harris County MUD 69	No	No	No	No	None	-	No	
Harris County MUD 535	No	No	No	No	None	-	No	
Liberty Lakes FWSD 1	No	No	No	No	None	-	No	
Cinco MUD 8	No	No	No	No	None	-	No	
Rolling Creek Utility District	No	No	No	No	None	-	No	
Harris County MUD 150	No	No	No	No	None	-	No	
Harris County Improvement District 16	No	No	No	No	None	-	No	
Harris Fort Bend Counties MUD 1	No	No	No	No	None	-	No	
Grand Northwest MUD	No	No	No	No	None	-	No	
Harris County FWSD 6	No	No	No	No	None	-	No	
Windfern Forest Utility District	No	No	No	No	None	-	No	
Porter MUD	No	No	No	No	None	-	No	
Brazoria County MUD 26	No	No	No	No	None	-	No	



Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Town Center Improvement District	No	No	No	No	None	-	No	
Fort Bend County WCID 2	No	No	No	No	None	-	No	
Chimney Hill MUD	No	No	No	No	None	-	No	
Fort Bend County MUD 199	No	No	No	No	None	-	No	
Harris County MUD 368	No	No	No	No	None	-	No	
Timberlake Improvement District	No	No	No	No	None	-	No	
Harris County WCID 136	No	No	No	No	None	-	No	
Grimes County MUD 1	No	No	No	No	None	-	No	
Galveston County FWSD 6	No	No	No	No	None	-	No	
South Shore Harbor MUD 6	No	No	No	No	None	-	No	
Harris County MUD 515	No	No	No	No	None	-	No	
Harris County MUD 354	No	No	No	No	None	-	No	
Harris County MUD 359	No	No	No	No	None	-	No	
Harris County WCID 133	No	No	No	No	None	-	No	
Harris County WCID 74	No	No	No	No	None	-	No	
Brazoria County MUD 55	No	No	No	No	None	-	No	
Harris County WCID 160	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Harris County MUD 514	No	No	No	No	None	-	No	
Harris County MUD 250	No	No	No	No	None	-	No	
Fort Bend County FWSD 2	No	No	No	No	None	-	No	
Cinco MUD 7	No	No	No	No	None	-	No	
Palmer Plantation MUD 2	No	No	No	No	None	-	No	
Thunderbird Utility District	No	No	No	No	None	-	No	
Harris County MUD 275	No	No	No	No	None	-	No	
Fort Bend County MUD 124	No	No	No	No	None	-	No	
San Leon MUD	No	No	No	No	None	-	No	
Galveston County MUD 3	No	No	No	No	None	-	No	
Galveston County MUD 2	No	No	No	No	None	-	No	
Galveston County MUD 12	No	No	No	No	None	-	No	
Corinthian Point MUD 2	No	No	No	No	None	-	No	
Chateau Woods MUD	No	No	No	No	None	-	No	
Montgomery County Utility District 3	No	No	No	No	None	-	No	
Wood Trace MUD 3	No	No	No	No	None	-	No	
River Plantation MUD	No	No	No	No	None	-	No	
Flamingo Isles MUD	No	No	No	No	None	-	No	
Bayview MUD	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Bacliff MUD	No	No	No	No	None	-	No	
Cinco MUD 9	No	No	No	No	None	-	No	
Cinco MUD 6	No	No	No	No	None	-	No	
Grand Lakes MUD 4	No	No	No	No	None	-	No	
Harris County FWSD 48	No	No	No	No	None	-	No	
Harris County Improvement District 12	No	No	No	No	None	-	No	
East Plantation Utility District	No	No	No	No	None	-	No	
Harris County WCID-Fondren Road	No	No	No	No	None	-	No	
Kirkmont MUD	No	No	No	No	None	-	No	
Klein PUD	No	No	No	No	None	-	No	
Pine Bough PUD	No	No	No	No	None	-	No	
Harris County WCID 50	No	No	No	No	None	-	No	
Harris County WCID 145	No	No	No	No	None	-	No	
Harris County WCID 89	No	No	No	No	None	-	No	
Harris County WCID 113	No	No	No	No	None	-	No	
League City Improvement District	No	No	No	No	None	-	No	
Harris County MUD 321	No	No	No	No	None	-	No	
Waller County WCID 2	No	No	No	No	None	-	No	
Galveston County MUD 52	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Cinco Southwest MUD 1	No	No	No	No	None	-	No	
Galveston County MUD 68	No	No	No	No	None	-	No	
Montgomery County MUD 92	No	No	No	No	None	-	No	
Galveston County MUD 46	No	No	No	No	None	-	No	
Crosby MUD	No	No	No	No	None	-	No	
The Woodlands MUD 1	No	No	No	No	None	-	No	
Texas National MUD	No	No	No	No	None	-	No	
Roman Forest PUD 4	No	No	No	No	None	-	No	
Roman Forest PUD 3	No	No	No	No	None	-	No	
New Caney MUD	No	No	No	No	None	-	No	
Harris County MUD 463	No	No	No	No	None	-	No	
Galveston County MUD 55	No	No	No	No	None	-	No	
Galveston County MUD 57	No	No	No	No	None	-	No	
Harris County FWSD 52	No	No	No	No	None	-	No	
Harris County MUD 370	No	No	No	No	None	-	No	
Northwest Harris County MUD 29	No	No	No	No	None	-	No	
Weston MUD	No	No	No	No	None	-	No	
West Memorial MUD	No	No	No	No	None	-	No	
Woodcreek MUD	No	No	No	No	None	-	No	
Tara Glen MUD	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Harris County MUD 468	No	No	No	No	None	-	No	
Harris County MUD 454	No	No	No	No	None	-	No	
North Park PUD	No	No	No	No	None	-	No	
Harris County MUD 537	No	No	No	No	None	-	No	
Harris County MUD 154	No	No	No	No	None	-	No	
Harris County MUD 261	No	No	No	No	None	-	No	
Brazoria County MUD 30	No	No	No	No	None	-	No	
Bissonnet MUD	No	No	No	No	None	-	No	
Parkway Utility District	No	No	No	No	None	-	No	
Montgomery County MUD 99	No	No	No	No	None	-	No	
Fort Bend County FWSD 1	No	No	No	No	None	-	No	
Five Corners Improvement District	No	No	No	No	None	-	No	
Harris County Improvement District 10A	No	No	No	No	None	-	No	
Horsepen Bayou MUD	No	No	No	No	None	-	No	
Post Wood MUD	No	No	No	No	None	-	No	
Ponderosa Forest Utility District	No	No	No	No	None	-	No	
Brazoria County MUD 16	No	No	No	No	None	-	No	
Montgomery County MUD 116	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Harris County MUD 425	No	No	No	No	None	-	No	
Harris County MUD 426	No	No	No	No	None	-	No	
Harris County MUD 485	No	No	No	No	None	-	No	
Harris County MUD 483	No	No	No	No	None	-	No	
Harris County MUD 484	No	No	No	No	None	-	No	
Harris County WCID 158	No	No	No	No	None	-	No	
Lake MUD	No	No	No	No	None	-	No	
Harris County MUD 282	No	No	No	No	None	-	No	
H-M-W SUD	No	No	No	No	None	-	No	
Harris County MUD 433	No	No	No	No	None	-	No	
Harris County MUD 449	No	No	No	No	None	-	No	
Clear Brook City MUD	No	No	No	No	None	-	No	
Harris County MUD 106	No	No	No	No	None	-	No	
Galveston County MUD 30	No	No	No	No	None	-	No	
Smith Ridge MUD	No	No	No	No	None	-	No	
Harris County MUD 211	No	No	No	No	None	-	No	
Fort Bend County LID 12	Unknown	No	No	No	None	-	No	
Galveston County MUD 18	No	No	No	No	None	-	No	
Sheldon Road MUD	No	No	No	No	None	-	No	
Heatherloch MUD	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Kings Manor MUD	No	No	No	No	None	-	No	
Cypress Forest PUD	No	No	No	No	None	-	No	
Harris County WCID 157	No	No	No	No	None	-	No	
Brazoria County MUD 36	No	No	No	No	None	-	No	
Harris County MUD 167	No	No	No	No	None	-	No	
Harris County MUD 271	No	No	No	No	None	-	No	
Harris County Improvement District 4	No	No	No	No	None	-	No	
Harris County MUD 372	No	No	No	No	None	-	No	
Oakmont Public Utility District	No	No	No	No	None	-	No	
Harris County MUD 130	No	No	No	No	None	-	No	
Burney Road MUD	No	No	No	No	None	-	No	
Grand Lakes MUD 2	No	No	No	No	None	-	No	
Grand Lakes WCID	No	No	No	No	None	-	No	
Liberty County MUD 7	No	No	No	No	None	-	No	
Rolling Fork PUD	No	No	No	No	None	-	No	
Southwest Harris County MUD 1	No	No	No	No	None	-	No	
Spencer Road PUD	No	No	No	No	None	-	No	
Spring Creek Forest PUD	No	No	No	No	None	-	No	
Tattor Road MUD	No	No	No	No	None	-	No	
Meadowcreek MUD	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Bay Colony West MUD	No	No	No	No	None	-	No	
Brazoria County MUD 35	No	No	No	No	None	-	No	
Grand Oaks MUD	No	No	No	No	None	-	No	
Ricewood MUD	No	No	No	No	None	-	No	
Galveston County MUD 44	No	No	No	No	None	-	No	
Fort Bend County MUD 23	Yes	Yes	Yes	No	Low	-	No	
Harris County MUD 173	No	No	No	No	None	-	No	
Phelps SUD	No	No	No	No	None	-	No	
Harris County MUD 239	No	No	No	No	None	-	No	
Harris County WCID 99	No	No	No	No	None	-	No	
Timber Lane Utility District	No	No	No	No	None	-	No	
Harris County MUD 287	No	No	No	No	None	-	No	
Harris County MUD 36	No	No	No	No	None	-	No	
Fort Bend County MUD 26	No	No	No	No	None	-	No	
Harris County MUD 55	No	No	No	No	None	-	No	
Harris County MUD 432	No	No	No	No	None	-	No	
Harris County MUD 457	No	No	No	No	None	-	No	
Harris Fort Bend Counties MUD 5	No	No	No	No	None	-	No	
Harris Fort Bend Counties MUD 3	No	No	No	No	None	-	No	



Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Harris County WCID 156	No	No	No	No	None	-	No	
Mission Bend MUD 2	No	No	No	No	None	-	No	
North Green MUD	No	No	No	No	None	-	No	
Galveston County MUD 45	No	No	No	No	None	-	No	
Harris County MUD 71	No	No	No	No	None	-	No	
Harris County MUD 61	No	No	No	No	None	-	No	
Cimarron MUD	No	No	No	No	None	-	No	
Intercontinental MUD	No	No	No	No	None	-	No	
Montgomery County Utility District 4	No	No	No	No	None	-	No	
Northwest Harris County MUD 12	No	No	No	No	None	-	No	
Harris County MUD 188	No	No	No	No	None	-	No	
Harris County WCID 159	No	No	No	No	None	-	No	
Harris County MUD 58	No	No	No	No	None	-	No	
Fort Bend County MUD 123	No	No	No	No	None	-	No	
Northwest Park MUD	No	No	No	No	None	-	No	
North Mission Glen MUD	No	No	No	No	None	-	No	
Northwest Harris County MUD 21	No	No	No	No	None	-	No	
Northwest Harris County MUD 24	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Northwest Harris County MUD 28	No	No	No	No	None	-	No	
Harris County MUD 53	No	No	No	No	None	-	No	
Harris County MUD 281	No	No	No	No	None	-	No	
Northwest Harris County MUD 5	No	No	No	No	None	-	No	
Harris County MUD 451	No	No	No	No	None	-	No	
Montgomery County MUD 68	No	No	No	No	None	-	No	
West Harris County MUD 2	No	No	No	No	None	-	No	
Harris County MUD 371	No	No	No	No	None	-	No	
Galveston County MUD 14	No	No	No	No	None	-	No	
Harris County MUD 96	No	No	No	No	None	-	No	
Harris County MUD 364	No	No	No	No	None	-	No	
Harris County MUD 405	No	No	No	No	None	-	No	
Harris County MUD 411	No	No	No	No	None	-	No	
Brazoria County MUD 6	No	No	No	No	None	-	No	
Brazoria County MUD 23	No	No	No	No	None	-	No	
Cypress Creek Utility District	No	No	No	No	None	-	No	
Northwest Harris County MUD 9	No	No	No	No	None	-	No	
Harris County MUD 422	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Harris County MUD 462	No	No	No	No	None	-	No	
Memorial Hills Utility District	No	No	No	No	None	-	No	
Harris County MUD 238	No	No	No	No	None	-	No	
Harris County MUD 205	No	No	No	No	None	-	No	
Harris County MUD 172	No	No	No	No	None	-	No	
Harris County MUD 390	No	No	No	No	None	-	No	
Harris County MUD 285	No	No	No	No	None	-	No	
Harris County WCID 92	No	No	No	No	None	-	No	
Fort Bend County MUD 151	No	No	No	No	None	-	No	
Richey Road MUD	No	No	No	No	None	-	No	
Harris County MUD 280	No	No	No	No	None	-	No	
Harris County WCID 110	No	No	No	No	None	-	No	
Fallbrook Utility District	No	No	No	No	None	-	No	
Harris County MUD 171	No	No	No	No	None	-	No	
Forest Hills MUD	No	No	No	No	None	-	No	
Harris County MUD 153	No	No	No	No	None	-	No	
Harris County MUD 355	No	No	No	No	None	-	No	
Montgomery County MUD 18	No	No	No	No	None	-	No	
Galveston County MUD 60	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Galveston County MUD 32	No	No	No	No	None	-	No	
Harris County MUD 375	No	No	No	No	None	-	No	
Harris County MUD 410	No	No	No	No	None	-	No	
Harris County MUD 473	No	No	No	No	None	-	No	
Harris County MUD 25	No	No	No	No	None	-	No	
Montgomery County MUD 137	No	No	No	No	None	-	No	
Harris County WCID 36	No	No	No	No	None	-	No	
Montgomery County MUD 138	No	No	No	No	None	-	No	
Montgomery County MUD 142	No	No	No	No	None	-	No	
Royalwood MUD	No	No	No	No	None	-	No	
Baybrook MUD 1	No	No	No	No	None	-	No	
Lake Conroe Hills MUD	No	No	No	No	None	-	No	
Harris County MUD 452	No	No	No	No	None	-	No	
Fort Bend County MUD 2	Yes	Yes	Yes	No	Low	-	No	
Harris County FWSD 47	No	No	No	No	None	-	No	
Montgomery County MUD 7	No	No	No	No	None	-	No	
Montgomery County MUD 9	No	No	No	No	None	-	No	
Montgomery County MUD 39	No	No	No	No	None	-	No	
Harris County MUD 91	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Harris County MUD 119	No	No	No	No	None	-	No	
Harris County MUD 132	No	No	No	No	None	-	No	
Harris County MUD 149	No	No	No	No	None	-	No	
Harris County MUD 180	No	No	No	No	None	-	No	
Reid Road MUD 1	No	No	No	No	None	-	No	
Grand Mission MUD 2	No	No	No	No	None	-	No	
Harris County WCID 70	No	No	No	No	None	-	No	
Harris County MUD 65	No	No	No	No	None	-	No	
Harris County FWSD 1-B	No	No	No	No	None	-	No	
Harris County MUD 344	No	No	No	No	None	-	No	
Harris County MUD 276	No	No	No	No	None	-	No	
Montgomery County MUD 16	No	No	No	No	None	-	No	
Martin Creek MUD	No	No	No	No	None	-	No	
Galveston County MUD 58	No	No	No	No	None	-	No	
Galveston County MUD 43	No	No	No	No	None	-	No	
Harris County MUD 185	No	No	No	No	None	-	No	
Harris County MUD 389	No	No	No	No	None	-	No	
Sagemeadow Utility District	No	No	No	No	None	-	No	
Harris County MUD 48	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Montgomery County MUD 19	No	No	No	No	None	-	No	
Harris County MUD 450	No	No	No	No	None	-	No	
Galveston County MUD 53	No	No	No	No	None	-	No	
Harris County MUD 489	No	No	No	No	None	-	No	
Tarkington SUD	No	No	No	No	None	-	No	
Cinco MUD 12	No	No	No	No	None	-	No	
Montgomery County MUD 56	No	No	No	No	None	-	No	
Montgomery County FWSD 6	No	No	No	No	None	-	No	
Harris County FWSD 45	No	No	No	No	None	-	No	
Mission Bend MUD 1	No	No	No	No	None	-	No	
Memorial MUD	No	No	No	No	None	-	No	
Beechnut MUD	No	No	No	No	None	-	No	
Mayde Creek MUD	No	No	No	No	None	-	No	
Mason Creek Utility District	No	No	No	No	None	-	No	
Harris County FWSD 51	No	No	No	No	None	-	No	
Harris County MUD 170	No	No	No	No	None	-	No	
Harris County MUD 168	No	No	No	No	None	-	No	
Harris County MUD 500	No	No	No	No	None	-	No	
Fort Bend County MUD 30	Yes	Yes	Yes	No	Low	-	No	
Memorial Villiages Water Authority	No	No	No	No	None	-	No	
Morton Road MUD	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Harris County MUD 221	No	No	No	No	None	-	No	
Langham Creek Utility District	No	No	No	No	None	-	No	
Point Aquarius MUD	No	No	No	No	None	-	No	
Stanley Lake MUD	No	No	No	No	None	-	No	
Galveston County MUD 6	No	No	No	No	None	-	No	
Northwest Harris County MUD 20	No	No	No	No	None	-	No	
Brazoria County MUD 19	No	No	No	No	None	-	No	
Harris Fort Bend Counties MUD 4	No	No	No	No	None	-	No	
Harris County MUD 163	No	No	No	No	None	-	No	
Harris County MUD 162	No	No	No	No	None	-	No	
Harris County MUD 16	No	No	No	No	None	-	No	
Harris County MUD 155	No	No	No	No	None	-	No	
Harris County MUD 152	No	No	No	No	None	-	No	
Harris County MUD 151	No	No	No	No	None	-	No	
Harris County MUD 122	No	No	No	No	None	-	No	
Harris County MUD 118	No	No	No	No	None	-	No	
Harris County MUD 50	No	No	No	No	None	-	No	
Harris County MUD 46	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Harris County MUD 438	No	No	No	No	None	-	No	
Harris County MUD 494	No	No	No	No	None	-	No	
Harris County MUD 449	No	No	No	No	None	-	No	
Harris County MUD 243	No	No	No	No	None	-	No	
Harris County MUD 225	No	No	No	No	None	-	No	
Harris County MUD 213	No	No	No	No	None	-	No	
Harris County MUD 166	No	No	No	No	None	-	No	
Harris County MUD 156	No	No	No	No	None	-	No	
Harris County MUD 147	No	No	No	No	None	-	No	
Harris County MUD 101	No	No	No	No	None	-	No	
Northgate Crossing Road Utility District	No	No	No	No	None	-	No	
Montgomery County MUD 36	No	No	No	No	None	-	No	
Harris County MUD 358	No	No	No	No	None	-	No	
Reid Road MUD 2	No	No	No	No	None	-	No	
Harris County MUD 49	No	No	No	No	None	-	No	
Montgomery County MUD 123	No	No	No	No	None	-	No	
Harris County MUD 44	No	No	No	No	None	-	No	
Harris County MUD 345	No	No	No	No	None	-	No	



Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Harris County MUD 341	No	No	No	No	None	-	No	
Harris County MUD 33	No	No	No	No	None	-	No	
Harris County MUD 316	No	No	No	No	None	-	No	
Harris County MUD 284	No	No	No	No	None	-	No	
Harris County MUD 264	No	No	No	No	None	-	No	
Harris County MUD 255	No	No	No	No	None	-	No	
Galveston County MUD 29	No	No	No	No	None	-	No	
Grand Mission MUD 1	No	No	No	No	None	-	No	
Bilma PUD	No	No	No	No	None	-	No	
Harris County MUD 26	No	No	No	No	None	-	No	
Harris County MUD 278	No	No	No	No	None	-	No	
Rankin Road West MUD	No	No	No	No	None	-	No	
Baker Road MUD	No	No	No	No	None	-	No	
Jackrabbit Road PUD	No	No	No	No	None	-	No	
Louetta Road Utility District	No	No	No	No	None	-	No	
North Channel Water Authority	No	No	No	No	None	-	No	
Harris County Improvement District 18	No	No	No	No	None	-	No	
Harris County FWSD 61	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Waller County Road Improvement District 1	No	No	No	No	None	-	No	
Harris-Liberty Counties MUD 1	No	No	No	No	None	-	No	
La Porte Area Water Authority	No	No	No	No	None	-	No	
Liberty County MUD 2	No	No	No	No	None	-	No	
Liberty County MUD 3	No	No	No	No	None	-	No	
Galveston County MUD 35	No	No	No	No	None	-	No	
East Montgomery County MUD 4	No	No	No	No	None	-	No	
Harris County MUD 404	No	No	No	No	None	-	No	
Galveston County MUD 51	No	No	No	No	None	-	No	
Harris County MUD 403	No	No	No	No	None	-	No	
Pine Foest MUD	No	No	No	No	None	-	No	
Pine Village PUD	No	No	No	No	None	-	No	
Renn Road MUD	No	No	No	No	None	-	No	
Sedona Lakes MUD 1 of Brazoria County	No	No	No	No	None	-	No	
Cinco MUD 2	No	No	No	No	None	-	No	
Inverness Forest Improvement District	No	No	No	No	None	-	No	
Harris County WCID 116	No	No	No	No	None	-	No	
Harris County WCID 1	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
West Harris County MUD 6	No	No	No	No	None	-	No	
West Harris County MUD 4	No	No	No	No	None	-	No	
West Harris County MUD 16	No	No	No	No	None	-	No	
West Harris County MUD 14	No	No	No	No	None	-	No	
West Harris County MUD 10	No	No	No	No	None	-	No	
Spanish Cove PUD	No	No	No	No	None	-	No	
Southbend MUD	No	No	No	No	None	-	No	
Sequoia Improvement District	No	No	No	No	None	-	No	
Robin PUD	No	No	No	No	None	-	No	
Northwest Harris County MUD 27	No	No	No	No	None	-	No	
Cinco MUD 5	No	No	No	No	None	-	No	
Cinco MUD 3	No	No	No	No	None	-	No	
Cinco MUD 10	No	No	No	No	None	-	No	
Cinco MUD 1	No	No	No	No	None	-	No	
Chelford City MUD	No	No	No	No	None	-	No	
Blue Ridge West MUD	No	No	No	No	None	-	No	
Fort Bend County MUD 53	No	No	No	No	None	-	No	
Fort Bend County MUD 45	No	No	No	No	None	-	No	
Galveston County WCID 19	No	No	No	No	None	-	No	
Harris County MUD 23	No	No	No	No	None	-	No	
Harris County MUD 222	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Harris County MUD 215	No	No	No	No	None	-	No	
Harris County MUD 322	No	No	No	No	None	-	No	
Harris County MUD 208	No	No	No	No	None	-	No	
Harris County MUD 183	No	No	No	No	None	-	No	
Harris County MUD 179	No	No	No	No	None	-	No	
Northwest Freeway MUD	No	No	No	No	None	-	No	
Northwest Harris County MUD 22	No	No	No	No	None	-	No	
Northwood MUD 1	No	No	No	No	None	-	No	
Clear Creek Forest MUD 2	No	No	No	No	None	-	No	
Clear Creek Forest MUD 1	No	No	No	No	None	-	No	
El Dorado Utility District	No	No	No	No	None	-	No	
Clovercreek MUD	No	No	No	No	None	-	No	
Lazy River Improvement District	No	No	No	No	None	-	No	
Montgomery County Utility District 2	No	No	No	No	None	-	No	
Brazoria County MUD 17	No	No	No	No	None	-	No	
Harris County MUD 407	No	No	No	No	None	-	No	
Fort Bend County MUD 35	Yes	Yes	Yes	No	Low	-	No	
Harris County MUD 480	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Harris County MUD 374	No	No	No	No	None	-	No	
The Woodlands Metro Center MUD	No	No	No	No	None	-	No	
Harris County MUD 373	No	No	No	No	None	-	No	
Harris County MUD 273	No	No	No	No	None	-	No	
Harris County MUD 459	No	No	No	No	None	-	No	
Nottingham Country MUD	No	No	No	No	None	-	No	
Northgate Crossing MUD 1	No	No	No	No	None	-	No	
Harris County MUD 81	No	No	No	No	None	-	No	
Harris County MUD 62	No	No	No	No	None	-	No	
West Harris County MUD 9	No	No	No	No	None	-	No	
Westador MUD	No	No	No	No	None	-	No	
Harris County WCID 91	No	No	No	No	None	-	No	
Harris County Utility District 15	No	No	No	No	None	-	No	
Harris County Utility District 14	No	No	No	No	None	-	No	
Shasla PUD	No	No	No	No	None	-	No	
Harris County WCID 84	No	No	No	No	None	-	No	
Fry Road MUD	No	No	No	No	None	-	No	
Montgomery County MUD 167	No	No	No	No	None	-	No	
Enchanted Place PUD	No	No	No	No	None	-	No	
Castlewood MUD	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Oak Manor MUD	No	No	No	No	None	-	No	
Brazoria County MUD 7	No	No	No	No	None	-	No	
South Shore Harbor MUD 7	No	No	No	No	None	-	No	
Montgomery County MUD 8	No	No	No	No	None	-	No	
Harris County MUD 409	No	No	No	No	None	-	No	
Harris County MUD 318	No	No	No	No	None	-	No	
Harris County MUD 317	No	No	No	No	None	-	No	
Spring Meadows MUD	No	No	No	No	None	-	No	
Bear Creek MUD	No	No	No	No	None	-	No	
Tower Oaks Plaza MUD	No	No	No	No	None	-	No	
Old Town Spring Improvement District	No	No	No	No	None	-	No	
Cedar Bayou Park Utility District	No	No	No	No	None	-	No	
Fort Bend County MUD 131	No	No	No	No	None	-	No	
Harris County MUD 217	No	No	No	No	None	-	No	
Montgomery County MUD 96	No	No	No	No	None	-	No	
Briar Ridge MUD	No	No	No	No	None	-	No	
Beltway 8 MUD 3	No	No	No	No	None	-	No	
Beltway 8 MUD 2	No	No	No	No	None	-	No	
Beltway 8 MUD 1	No	No	No	No	None	-	No	
Baytown Area Water Authority	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Cypresswood Utility District	No	No	No	No	None	-	No	
Cornerstones MUD	No	No	No	No	None	-	No	
Clay Road MUD	No	No	No	No	None	-	No	
Chelford One MUD	No	No	No	No	None	-	No	
Harris County MUD 80	No	No	No	No	None	-	No	
Harris County FWSD 27	No	No	No	No	None	-	No	
Harris County MUD 63	No	No	No	No	None	-	No	
Galveston County WCID 12	No	No	No	No	None	-	No	
Grand Lakes MUD 1	No	No	No	No	None	-	No	
Harris County MUD 516	No	No	No	No	None	-	No	
Harris County MUD 517	No	No	No	No	None	-	No	
Harris County MUD 436	No	No	No	No	None	-	No	
Far Hills Utility District	No	No	No	No	None	-	No	
Montgomery County MUD 86	No	No	No	No	None	-	No	
Montgomery County MUD 66	No	No	No	No	None	-	No	
Wood Trace MUD 2	No	No	No	No	None	-	No	
Wood Trace MUD 1	No	No	No	No	None	-	No	
Galveston County MUD 66	No	No	No	No	None	-	No	
Aldine PUD	No	No	No	No	None	-	No	
Arcadian Gardens MUD	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Westlake MUD 1	No	No	No	No	None	-	No	
Montgomery County MUD 30	No	No	No	No	None	-	No	
Montgomery County MUD 38	No	No	No	No	None	-	No	
Montgomery County MUD 45	No	No	No	No	None	-	No	
Harris County MUD 136	No	No	No	No	None	-	No	
Woodcreek Reserve MUD	No	No	No	No	None	-	No	
Montgomery County FWSD 7	No	No	No	No	None	-	No	
Harris County MUD 43	No	No	No	No	None	-	No	
Forests Edge MUD	No	No	No	No	None	-	No	
Harris County MUD 306	No	No	No	No	None	-	No	
Harris County MUD 327	No	No	No	No	None	-	No	
Harris County MUD 8	No	No	No	No	None	-	No	
Harris County MUD 366	No	No	No	No	None	-	No	
Montgomery County MUD 111	No	No	No	No	None	-	No	
Fort Bend County MUD 50	No	No	No	No	None	-	No	
Montgomery County MUD 164	No	No	No	No	None	-	No	
Harris County WCID 163	No	No	No	No	None	-	No	
Fort Bend County MUD 156	No	No	No	No	None	-	No	
Fort Bend County MUD 142	No	No	No	No	None	-	No	



Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Waller County MUD 17	No	No	No	No	None	-	No	
Northwest Harris County MUD 19	No	No	No	No	None	-	No	
Harris County MUD 220	No	No	No	No	None	-	No	
Cypress Hill MUD 1	No	No	No	No	None	-	No	
Fort Bend County MUD 163	No	No	No	No	None	-	No	
Blaketree MUD 2 of Montgomery County	No	No	No	No	None	-	No	
Conroe MUD 1	No	No	No	No	None	-	No	
Harris County MUD 105	No	No	No	No	None	-	No	
Mills Road MUD	No	No	No	No	None	-	No	
Harris County MUD 216	No	No	No	No	None	-	No	
Harris County MUD 109	No	No	No	No	None	-	No	
Harris County MUD 492	No	No	No	No	None	-	No	
Harris County MUD 554	No	No	No	No	None	-	No	
Harris County MUD 506	No	No	No	No	None	-	No	
Harris County MUD 542	No	No	No	No	None	-	No	
Harris County MUD 566	No	No	No	No	None	-	No	
Willow Point MUD	No	No	No	No	None	-	No	
East Montgomery County MUD 6	No	No	No	No	None	-	No	
East Montgomery County MUD 7	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Montgomery County MUD 24	No	No	No	No	None	-	No	
Montgomery County MUD 42	No	No	No	No	None	-	No	
Harris County MUD 416	No	No	No	No	None	-	No	
Harris County MUD 418	No	No	No	No	None	-	No	
Charterwood MUD	No	No	No	No	None	-	No	
Brazoria County MUD 53	No	No	No	No	None	-	No	
Harris County MUD 558	No	No	No	No	None	-	No	
Harris County MUD 461	No	No	No	No	None	-	No	
Montgomery County MUD 95	No	No	No	No	None	-	No	
Montgomery County MUD 106	No	No	No	No	None	-	No	
Montgomery County MUD 90	No	No	No	No	None	-	No	
Montgomery County MUD 46	No	No	No	No	None	-	No	
Brazoria County MUD 28	No	No	No	No	None	-	No	
Brazoria County MUD 39	No	No	No	No	None	-	No	
Harris County MUD 391	No	No	No	No	None	-	No	
Harris County MUD 493	No	No	No	No	None	-	No	
White Oak Bend MUD	No	No	No	No	None	-	No	
Harris County MUD 434	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Harris County MUD 387	No	No	No	No	None	-	No	
West Harris County MUD 15	No	No	No	No	None	-	No	
Harris County WCID 155	No	No	No	No	None	-	No	
Fort Bend County MUD 185	No	No	No	No	None	-	No	
Greenwood Utility District	No	No	No	No	None	-	No	
Montgomery County MUD 89	No	No	No	No	None	-	No	
Montgomery County MUD 88	No	No	No	No	None	-	No	
Charleston MUD	No	No	No	No	None	-	No	
Harris County MUD 481	No	No	No	No	None	-	No	
Brazoria County MUD 32	No	No	No	No	None	-	No	
Harris County MUD 424	No	No	No	No	None	-	No	
Harris County MUD 482	No	No	No	No	None	-	No	
Galveston County MUD 36	No	No	No	No	None	-	No	
Fort Bend County MUD 173	No	No	No	No	None	-	No	
Harris County MUD 249	No	No	No	No	None	-	No	
Bammel Utility district	No	No	No	No	None	-	No	
Fort Bend-Waller Counties MUD 3	No	No	No	No	None	-	No	
Montgomery County MUD 114	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Harris County MUD 532	No	No	No	No	None	-	No	
Harris County MUD 519	No	No	No	No	None	-	No	
Montgomery County MUD 135	No	No	No	No	None	-	No	
Montgomery County MUD 139	No	No	No	No	None	-	No	
Montgomery County MUD 136	No	No	No	No	None	-	No	
Harris-Brazoria Counties MUD 509	No	No	No	No	None	-	No	
Harris County Utility District 6	No	No	No	No	None	-	No	
Harris County MUD 158	No	No	No	No	None	-	No	
Harris County WCID 109	No	No	No	No	None	-	No	
Woodridge MUD	No	No	No	No	None	-	No	
Harris County MUD 412	No	No	No	No	None	-	No	
Longhorn Town Utility District	No	No	No	No	None	-	No	
Fort Bend County MUD 168	No	No	No	No	None	-	No	
Harris County Improvement District 3	No	No	No	No	None	-	No	
Hunter's Glen MUD	No	No	No	No	None	-	No	
Montgomery County MUD 131	No	No	No	No	None	-	No	
Fort Bend County MUD 206	No	No	No	No	None	-	No	
Brazoria County MUD 48	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Brazoria County MUD 49	No	No	No	No	None	-	No	
Brazoria County MUD 50	No	No	No	No	None	-	No	
Northwest Harris County MUD 30	No	No	No	No	None	-	No	
Brazoria County MUD 43	No	No	No	No	None	-	No	
Newport MUD	No	No	No	No	None	-	No	
Barker Cypress MUD	No	No	No	No	None	-	No	
East Montgomery County MUD 5	No	No	No	No	None	-	No	
Harris County MUD 465	No	No	No	No	None	-	No	
Northwest Harris County MUD 16	No	No	No	No	None	-	No	
Northwest Harris County MUD 23	No	No	No	No	None	-	No	
Harris County MUD 5	No	No	No	No	None	-	No	
Fort Bend County MUD 58	No	No	No	No	None	-	No	
Harris County MUD 86	No	No	No	No	None	-	No	
Fort Bend County MUD 48	No	No	No	No	None	-	No	
Harris County MUD 547	No	No	No	No	None	-	No	
Magnolia East MUD	No	No	No	No	None	-	No	
Brazoria County MUD 42	No	No	No	No	None	-	No	
Harris County MUD 441	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Montgomery County MUD 140	No	No	No	No	None	-	No	
Kingsbridge MUD	No	No	No	No	None	-	No	
Harris County MUD 399	No	No	No	No	None	-	No	
Harris County MUD 419	No	No	No	No	None	-	No	
Fort Bend County MUD 189	No	No	No	No	None	-	No	
Harris County MUD 304	No	No	No	No	None	-	No	
Harris County MUD 397	No	No	No	No	None	-	No	
Harris County MUD 406	No	No	No	No	None	-	No	
Cypress-Klein Utilitiy District	No	No	No	No	None	-	No	
Brazoria County MUD 56	No	No	No	No	None	-	No	
Harris County MUD 365	No	No	No	No	None	-	No	
Fort Bend County MUD 182	No	No	No	No	None	-	No	
North Fort Bend Water Authority	No	No	No	No	None	-	No	
Fulshear MUD 3	No	No	No	No	None	-	No	
Montgomery County MUD 113	No	No	No	No	None	-	No	
Grant Road PUD	No	No	No	No	None	-	No	
Galveston County MUD 31	No	No	No	No	None	-	No	
Harris County WCID 161	No	No	No	No	None	-	No	
East Montgomery County MUD 3	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Harris County MUD 530	No	No	No	No	None	-	No	
Harris County MUD 529	No	No	No	No	None	-	No	
Waller County Improvement District 2	No	No	No	No	None	-	No	
Harris County MUD 120	No	No	No	No	None	-	No	
Harris County MUD 501	No	No	No	No	None	-	No	
Bridgestone MUD	No	No	No	No	None	-	No	
Harris County MUD 538	No	No	No	No	None	-	No	
Harris County MUD 551	No	No	No	No	None	-	No	
Brazoria County MUD 66	No	No	No	No	None	-	No	
Harris County MUD 18	No	No	No	No	None	-	No	
Lake Forest Utility District	No	No	No	No	None	-	No	
Harris County WCID 114	No	No	No	No	None	-	No	
Harris County MUD 379	No	No	No	No	None	-	No	
Montgomery County MUD 178	No	No	No	No	None	-	No	
Harris County MUD 534	No	No	No	No	None	-	No	
Harris County MUD 533	No	No	No	No	None	-	No	
Brazoria County MUD 61	No	No	No	No	None	-	No	
Harris County MUD 367	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Willow Creek Farms MUD	No	No	No	No	None	-	No	
Harris-montgomery Counties MUD 386	No	No	No	No	None	-	No	
Dowdell PUD	No	No	No	No	None	-	No	
Harris County MUD 400	No	No	No	No	None	-	No	
Montgomery County MUD 47	No	No	No	No	None	-	No	
Fort Bend County MUD 130	No	No	No	No	None	-	No	
Meadowhill Regional MUD	No	No	No	No	None	-	No	
Harris County MUD 376	No	No	No	No	None	-	No	
Harris County MUD 378	No	No	No	No	None	-	No	
Harris County MUD 396	No	No	No	No	None	-	No	
Harris County Road Improvement District 1	No	No	No	No	None	-	No	
Rayford Road MUD	No	No	No	No	None	-	No	
West Harris County MUD 7	No	No	No	No	None	-	No	
Harris County MUD 102	No	No	No	No	None	-	No	
Harris County MUD 381	No	No	No	No	None	-	No	
Fountainhead MUD	No	No	No	No	None	-	No	
Waller County Improvement District 1	No	No	No	No	None	-	No	



Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Brazoria County MUD 22	No	No	No	No	None	-	No	
Fort Bend Coutny MUD 133	No	No	No	No	None	-	No	
Montgomery County MUD 67	No	No	No	No	None	-	No	
Montgomery County MUD 126	No	No	No	No	None	-	No	
North Forest MUD	No	No	No	No	None	-	No	
Montgomery County MUD 119	No	No	No	No	None	-	No	
Harris County FWSD 58	No	No	No	No	None	-	No	
Harris County MUD 182	No	No	No	No	None	-	No	
Louetta North PUD	No	No	No	No	None	-	No	
Lago Bello MUD 1	No	No	No	No	None	-	No	
Harris County MUD 570	No	No	No	No	None	-	No	
Valley Ranch MUD 1	No	No	No	No	None	-	No	
Galveston County MUD 15	No	No	No	No	None	-	No	
Fort Bend County MUD 190	No	No	No	No	None	-	No	
Mount Houston Road MUD	No	No	No	No	None	-	No	
Harris County WCID 21	No	No	No	No	None	-	No	
Galveston County MUD 76	No	No	No	No	None	-	No	
North Belt Utility District	No	No	No	No	None	-	No	
Northgate Crossing MUD 2	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Harris County MUD 490	No	No	No	No	None	-	No	
Harris County MUD 361	No	No	No	No	None	-	No	
East Downtown Mgmt District	No	No	No	No	None	-	No	
Brazoria County MUD 18	No	No	No	No	None	-	No	
Brazoria County MUD 21	No	No	No	No	None	-	No	
Fort Bend County MUD 122	No	No	No	No	None	-	No	
Galveston County MUD 39	No	No	No	No	None	-	No	
Big Oaks MUD	No	No	No	No	None	-	No	
Montgomery County MUD 60	No	No	No	No	None	-	No	
Northpointe WCID	No	No	No	No	None	-	No	
Northwest Harris County MUD 6	No	No	No	No	None	-	No	
Harris County MUD 496	No	No	No	No	None	-	No	
Harris County MUD 420	No	No	No	No	None	-	No	
Harris County MUD 383	No	No	No	No	None	-	No	
Harris County MUD 544	No	No	No	No	None	-	No	
Harris County MUD 540	No	No	No	No	None	-	No	
Waller County MUD 33	No	No	No	No	None	-	No	
Montgomery County MUD 154A	No	No	No	No	None	-	No	
Brazoria County MUD 73	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Harris County MUD 495	No	No	No	No	None	-	No	
Harris County Improvemend District 25	No	No	No	No	None	-	No	
Harris County MUD 64	No	No	No	No	None	-	No	
Brazoria County MUD 70	No	No	No	No	None	-	No	
Trinity Lakes MUD of Montgomery County	No	No	No	No	None	-	No	
Brazoria County MUD 40	No	No	No	No	None	-	No	
Greens Parkway MUD	No	No	No	No	None	-	No	
Harris County MUD 230	No	No	No	No	None	-	No	
Harris County MUD 196	No	No	No	No	None	-	No	
Montgomery County MUD 180	No	No	No	No	None	-	No	
Harris County MUD 423	No	No	No	No	None	-	No	
Fort Bend County MUD 141	No	No	No	No	None	-	No	
Montgomery County MUD 108	No	No	No	No	None	-	No	
Montgomery County MUD 166	No	No	No	No	None	-	No	
Galveston County MUD 56	No	No	No	No	None	-	No	
Chambers County MUD 3	No	No	No	No	None	-	No	
Waller County MUD 34	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Green Tree Park MUD	No	No	No	No	None	-	No	
Harris County MUD 553	No	No	No	No	None	-	No	
East Montgomery County MUD 12	No	No	No	No	None	-	No	
Montgomery County MUD 158	No	No	No	No	None	-	No	
Montgomery County MUD 179	No	No	No	No	None	-	No	
Fort Bend County MUD 34	Yes	Yes	Yes	No	Low	-	No	
Harris County Improvement District 14	No	No	No	No	None	-	No	
Harris County MUD 157	No	No	No	No	None	-	No	
Brazoria County MUD 24	No	No	No	No	None	-	No	
Harris County MUD 24	No	No	No	No	None	-	No	
Montgomery County MUD 155	No	No	No	No	None	-	No	
CY Champ PUD	No	No	No	No	None	-	No	
Galveston County MUD 59	No	No	No	No	None	-	No	
West Harris County MUD 17	No	No	No	No	None	-	No	
Montgomery County MUD 176	No	No	No	No	None	-	No	
Harris County Improvement District 24	No	No	No	No	None	-	No	
Harris County MUD 165	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Northwest Harris County MUD 15	No	No	No	No	None	-	No	
West Harris County MUD 21	No	No	No	No	None	-	No	
Harris County MUD 544	No	No	No	No	None	-	No	
Harris County FWSD 1A	No	No	No	No	None	-	No	
Montgomery County WCID 4	No	No	No	No	None	-	No	
Harris County MUD 565	No	No	No	No	None	-	No	
Harris Waller Counties MUD 4	No	No	No	No	None	-	No	
Brazoria County MUD 77	No	No	No	No	None	-	No	
Harris County MUD 248	No	No	No	No	None	-	No	
Northwest Harris County MUD 10	No	No	No	No	None	-	No	
Lakewood MUD 2	No	No	No	No	None	-	No	
Montgomery County MUD 105	No	No	No	No	None	-	No	
Montgomery County MUD 112	No	No	No	No	None	-	No	
Montgomery County MUD 121	No	No	No	No	None	-	No	
Texas Heritage Parkway ID	No	No	No	No	None	-	No	
Montgomery County MUD 159	No	No	No	No	None	-	No	
Lakewood MUD 3	No	No	No	No	None	-	No	
Lakewood Improvement District	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Harris County MUD 552	No	No	No	No	None	-	No	
Brazoria County MUD 69	No	No	No	No	None	-	No	
Harris County MUD 569	No	No	No	No	None	-	No	
Montgomery County MUD 175	No	No	No	No	None	-	No	
Harris County MUD 555	No	No	No	No	None	-	No	
Encanto Real Utility District	No	No	No	No	None	-	No	
Wood Trace WCID of Montgomery County	No	No	No	No	None	-	No	
Northampton MUD	No	No	No	No	None	-	No	
Wood Trace MUD 4	No	No	No	No	None	-	No	
Brazoria-Fort Bend Counties MUD 3	No	No	No	No	None	-	No	
Montgomery County MUD 174	No	No	No	No	None	-	No	
Malcomson Road Utility District	No	No	No	No	None	-	No	
Harris County Improvement District 27	No	No	No	No	None	-	No	
Harris County MUD 568	No	No	No	No	None	-	No	
Waller County WCID 3	No	No	No	No	None	-	No	
Liberty Grand MUD 1	No	No	No	No	None	-	No	
Remington MUD 1	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Montgomery County MUD 165	No	No	No	No	None	-	No	
Galveston County MUD 73	No	No	No	No	None	-	No	
Galveston County MUD 74	No	No	No	No	None	-	No	
Brazoria County MUD 51	No	No	No	No	None	-	No	
Chambers County MUD 2	No	No	No	No	None	-	No	
Waller County MUD 35	No	No	No	No	None	-	No	
Harris-Waller Counties MUD 3	No	No	No	No	None	-	No	
Lakewood MUD 1	No	No	No	No	None	-	No	
Harris County MUD 202	No	No	No	No	None	-	No	
Montgomery County MUD 157	No	No	No	No	None	-	No	
Montgomery County MUD 173	No	No	No	No	None	-	No	
Richfield Ranch WCID	No	No	No	No	None	-	No	
Harris County MUD 377	No	No	No	No	None	-	No	
Harris County MUD 380	No	No	No	No	None	-	No	
Montgomery County MUD 148	No	No	No	No	None	-	No	
San Jacinto River Authority	No	No	No	No	None	-	No	
Brazos River Authority	No	No	No	No	None	-	No	
Trinity River Authority of Texas	No	No	No	No	None	-	No	

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Willow Fork Drainage District	No	No	Yes	No	None	-	No	
Montgomery County Drainage District 10	Yes	No	No	Yes	Moderate	-	No	<a href="https://cms1files.revize.com/montgomerycountytexas/document_center/1Flood%20Map/Montgomery%20County%20Floodplain%20Management%20Regulations.pdf">https://cms1files.revize.com/montgomerycountytexas/document_center/1Flood%20Map/Montgomery%20County%20Floodplain%20Management%20Regulations.pdf</a>
Galveston County Drainage District 1	No	No	No	No	None	-	No	
Montgomery County Drainage District 9	No	No	No	No	None	-	No	
Brazoria County Drainage District 8	No	No	No	No	None	-	No	
Galveston County Drainage District 2	No	No	No	No	None	-	No	
Montgomery County Drainage District 6	No	No	No	No	None	-	No	
Brazoria Drainage District 4	Yes	No	No	Yes	Moderate	-	No	
West Brazoria County Drainage District	Yes	No	No	Yes	Moderate	-	No	
Fort Bend County Drainage District	Yes	No	No	Yes	Strong	-	No	
Liberty County Drainage District	Unknown	No	No	No	None	-	No	
Brookshire Katy Drainage District	Yes	No	No	Yes	Moderate	-	No	



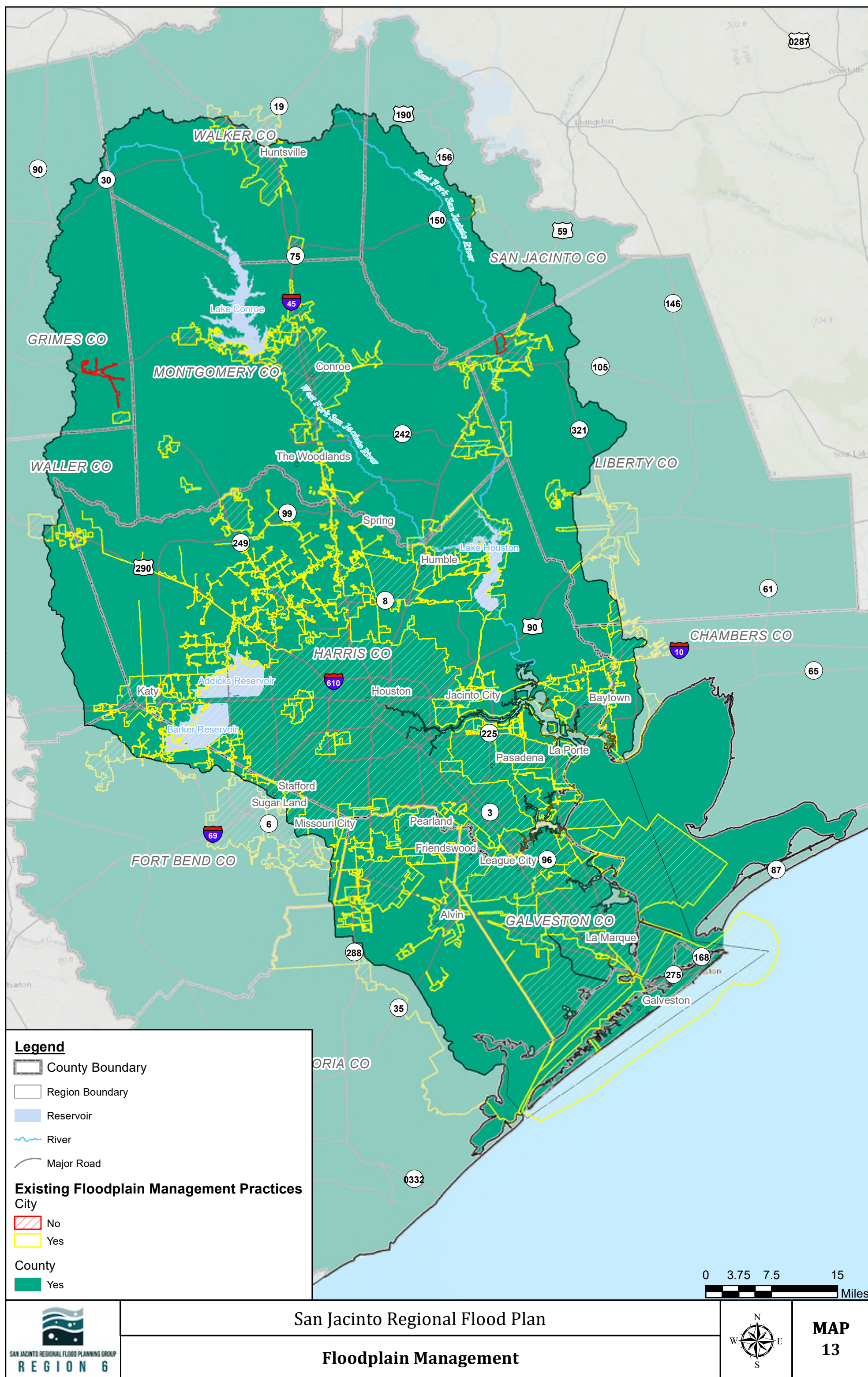
Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
Galveston County Consolidated Drainage District	Yes	No	No	Yes	Moderate	-	No	
Harris County Flood Control District	Yes	No	No	Yes	Strong	-	No	
Brazoria County Drainage District 5	No	No	No	No	None	-	No	

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**Appendix 3A-2:**  
**Map 13 - Floodplain Management**

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**Appendix 3B-1:**  
**Table 11 - Regional Flood Plan Flood Mitigation and Floodplain  
Management Goals**

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Appendix 3B-1 - Table 11: Flood Mitigation and Floodplain Management Goals

Goal ID	Goal	RFPG No.	RFPG Name	Term of Goal	Target Year	Applicable To	Residual Risk	How will the Goal be Measured	Overarching Goal	Associated Goal IDs
06000001	There will be 0 flood-related fatalities annually within the San Jacinto region by 2053.	06	San Jacinto	Long Term (30-year)	2053	Entire RFPG	No guaranteed change in flood risk. Risk to life associated with indirect causes such as loss of power generation or isolation from medical care remain.	Number of direct flood-related fatalities	Protect against loss of life and property (31 TAC §362.3.b.13-14)	
06000002	Increase the value of state and federal funds awarded within the San Jacinto Region by 10%.	06	San Jacinto	Short Term (10-year)	2033	Entire RFPG	Communities that need but were not awarded funding. No direct change to mapped flood risk	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)	
06000003	Reduce the miles of major roadways subject to inundation during the 100-year event by 10% by 2033.	06	San Jacinto	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	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)	06000004
06000004	Reduce the miles of major roadways subject to inundation during the 100-year event by 25% by 2053.	06	San Jacinto	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	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)	06000003
06000005	Increase the number of public entities that invest in stormwater infrastructure and planning by 10% by 2033.	06	San Jacinto	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.	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)	06000006
06000006	Increase the number of entities that invest in stormwater infrastructure and planning by 25% by 2053.	06	San Jacinto	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.	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)	06000005
06000007	All flood regulatory authorities within the region will adopt standards equal to or exceeding minimums as recommended by the San Jacinto RFPG in the first cycle of regional flood planning.	06	San Jacinto	Short Term (10-year)	2033	Entire RFPG	No change in flood risk; reduced flood risk for new development	Number of flood regulatory authorities that adopt standards equal to or exceeding recommended minimums by the RFPG in the first cycle	Consider floodplain management and development regulation (31 TAC § 362.b.6-7,26)	

Appendix 3B-1 - Table 11: Flood Mitigation and Floodplain Management Goals

Goal ID	Goal	RFPG No.	RFPG Name	Term of Goal	Target Year	Applicable To	Residual Risk	How will the Goal be Measured	Overarching Goal	Associated Goal IDs
06000008	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.	06	San Jacinto	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.	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	06000009
06000009	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.	06	San Jacinto	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.	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	06000008
06000010	Expand the understanding of flood risk in the San Jacinto region.	06	San Jacinto	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)	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)	
06000011	Reduce the number of critical facilities subject to inundation during the 100-year event by 5% by 2033.	06	San Jacinto	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	Number of critical facilities subject to 100-year flood risk	Protect against loss of life and property (31 TAC § 362.3.b.13-14)	06000012
06000012	Reduce the number of critical facilities subject to inundation during the 100-year event by 20% by 2053.	06	San Jacinto	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	Number of critical facilities subject to 100-year flood risk	Protect against loss of life and property (31 TAC § 362.3.b.13-14)	06000011
06000013	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.	06	San Jacinto	Short Term (10-year)	2033	Entire RFPG	No residual risk as compared to equivalent conventional practices	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)	06000014

Appendix 3B-1 - Table 11: Flood Mitigation and Floodplain Management Goals

Goal ID	Goal	RFPG No.	RFPG Name	Term of Goal	Target Year	Applicable To	Residual Risk	How will the Goal be Measured	Overarching Goal	Associated Goal IDs
06000014	At least 90% of flood mitigation strategies (FMSs) and flood mitigation projects (FMPs) identified within the regional flood plain will incorporate nature-based practices by 2053.	06	San Jacinto	Long Term (30-year)	2053	Entire RFPG	No residual risk as compared to equivalent conventional practices	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)	06000013
06000015	Reduce the number of structures subject to inundation during the 100-year event by 25% by 2053.	06	San Jacinto	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	Number of structures subject to 100-year flood risk	Protect against loss of life and property (31 TAC § 362.3.b.13-14)	

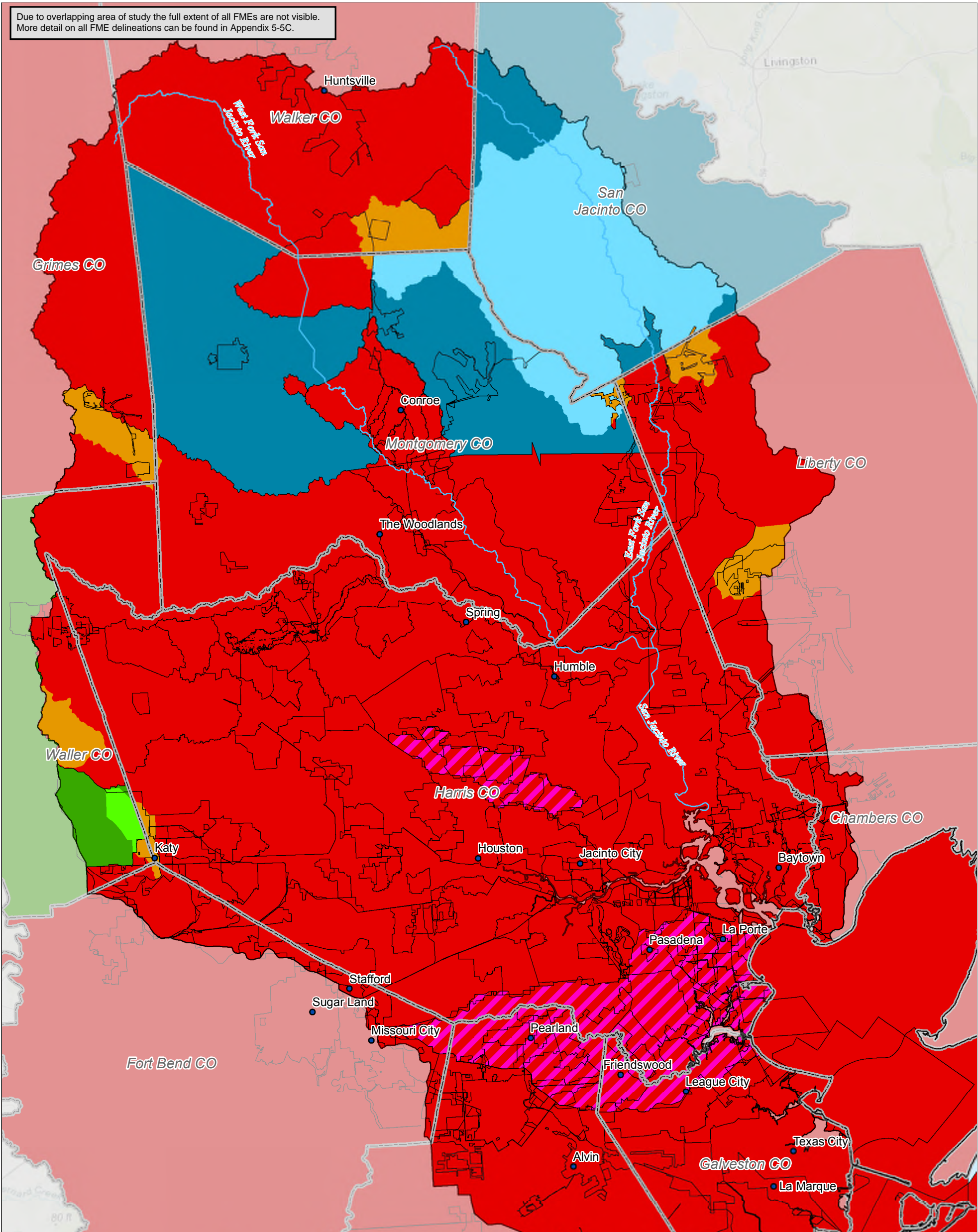
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**Appendix 4-1:**  
**Map 16 - Potential Flood Management Evaluations**

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Due to overlapping area of study the full extent of all FMEs are not visible. More detail on all FME delineations can be found in Appendix 5-5C.



**Legend**

- County Boundary
- San Jacinto River
- City
- FME Boundary

**Flood Management Type and Mapping Condition**

**Project Planning**

- Mapping Requires Update\*
- Modern Mapping

**Other**

- Modern Mapping

**Preparedness**

- Mapping Requires Update\*
- Modern Mapping

**Watershed Planning**

- Mapping Requires Update\*
- Modern Mapping

\*Mapping requires updates when it is found to meet the following conditions

- Mapping limited to main reach of channel system
- Effective FEMA mapping is more than 10 years old
- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

See Map 5 for more information on existing flood map gaps

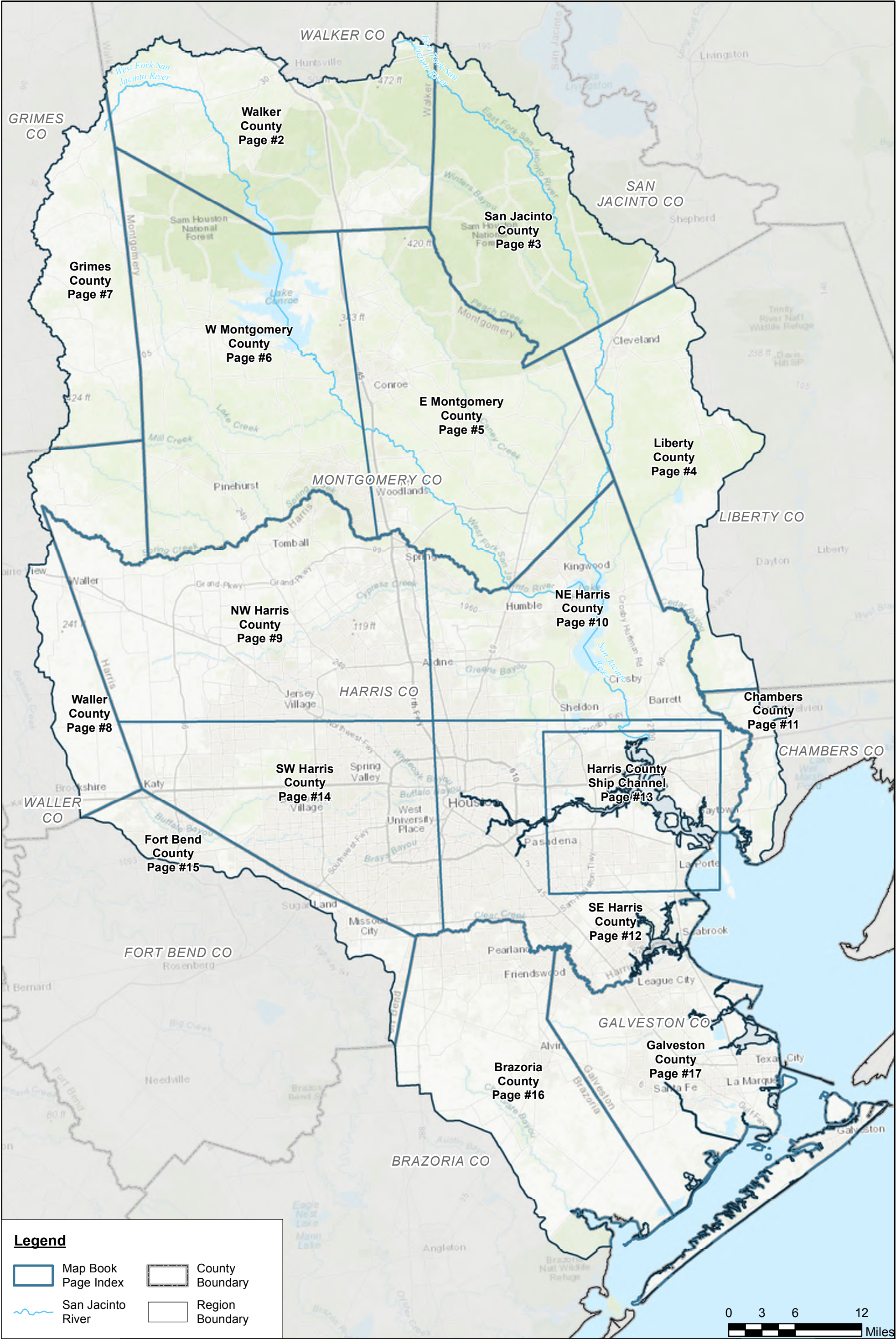


San Jacinto Regional Flood Plan  
Potential Flood Management Evaluations



**MAP  
16**  
Overview





# San Jacinto Regional Flood Plan

## Potential Flood Management Evaluations - Index

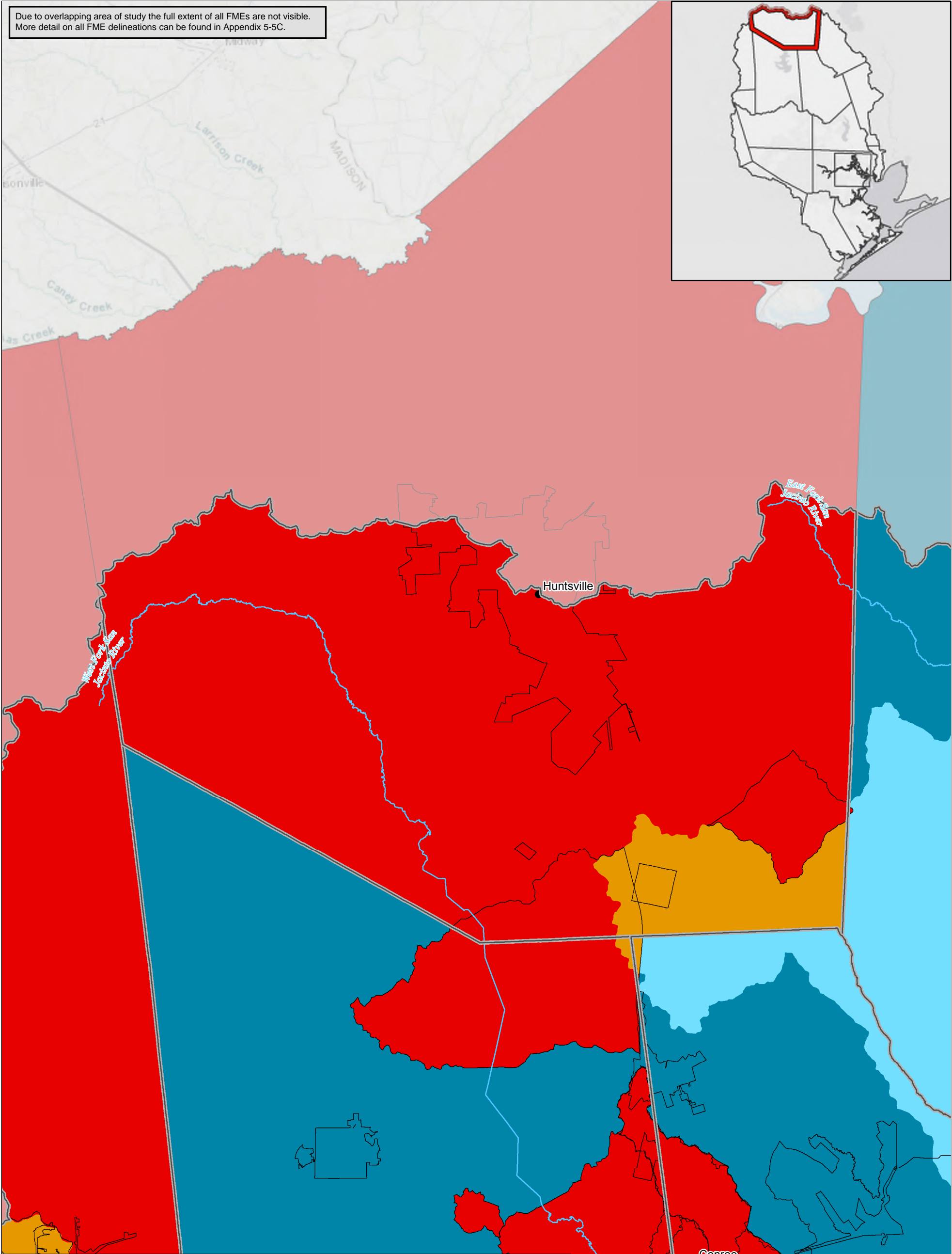


**MAP 16**  
**FIGURE 1 of 17**

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



Due to overlapping area of study the full extent of all FMEs are not visible.  
More detail on all FME delineations can be found in Appendix 5-5C.



**Legend**

- Map Book Page Index
- San Jacinto River
- City
- FME Boundary

**Flood Management Type and Mapping Condition**

Project Planning

- Mapping Requires Update
- Modern Mapping

Other

- Modern Mapping

Preparedness

- Mapping Requires Update
- Modern Mapping

Watershed Planning

- Mapping Requires Update
- Modern Mapping

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- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

See Map 5 for more information on existing flood map gaps

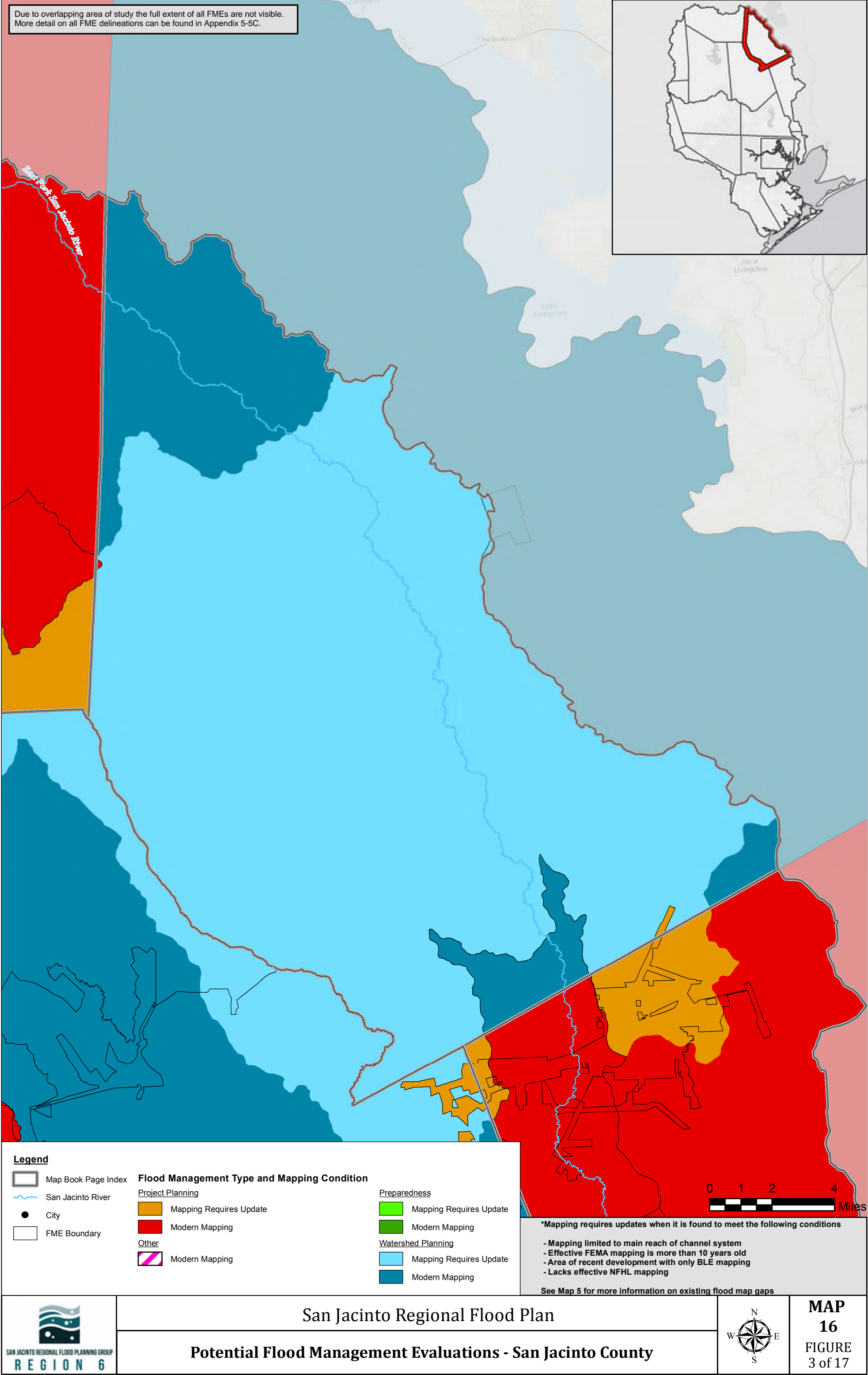


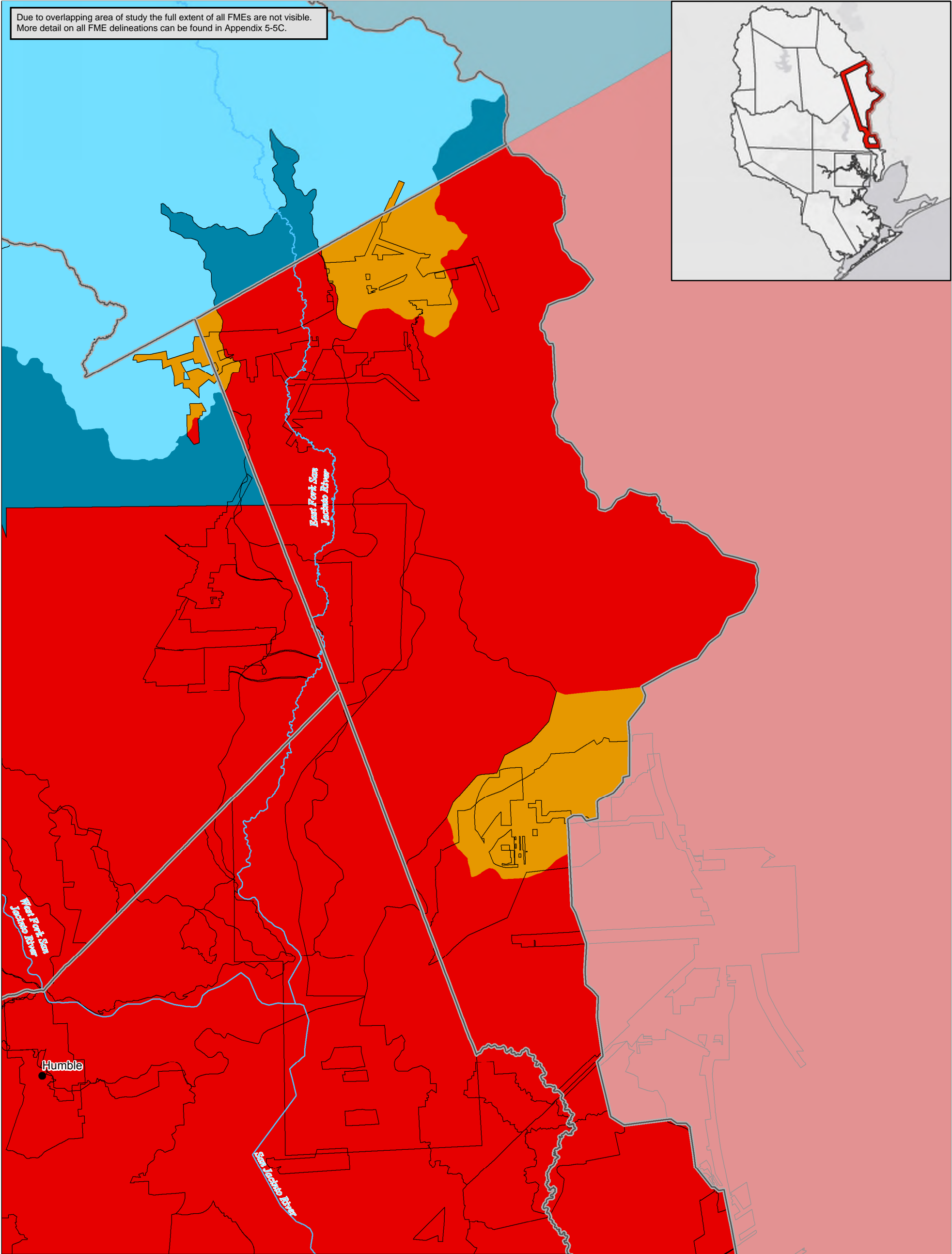
**San Jacinto Regional Flood Plan**

**Potential Flood Management Evaluations - Walker County**



**MAP 16**  
**FIGURE 2 of 17**





**Legend**

- Map Book Page Index
- San Jacinto River
- City
- FME Boundary

**Flood Management Type and Mapping Condition**

Project Planning

- Mapping Requires Update
- Modern Mapping

Other

- Modern Mapping

Preparedness

- Mapping Requires Update
- Modern Mapping

Watershed Planning

- Mapping Requires Update
- Modern Mapping

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- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

See Map 5 for more information on existing flood map gaps



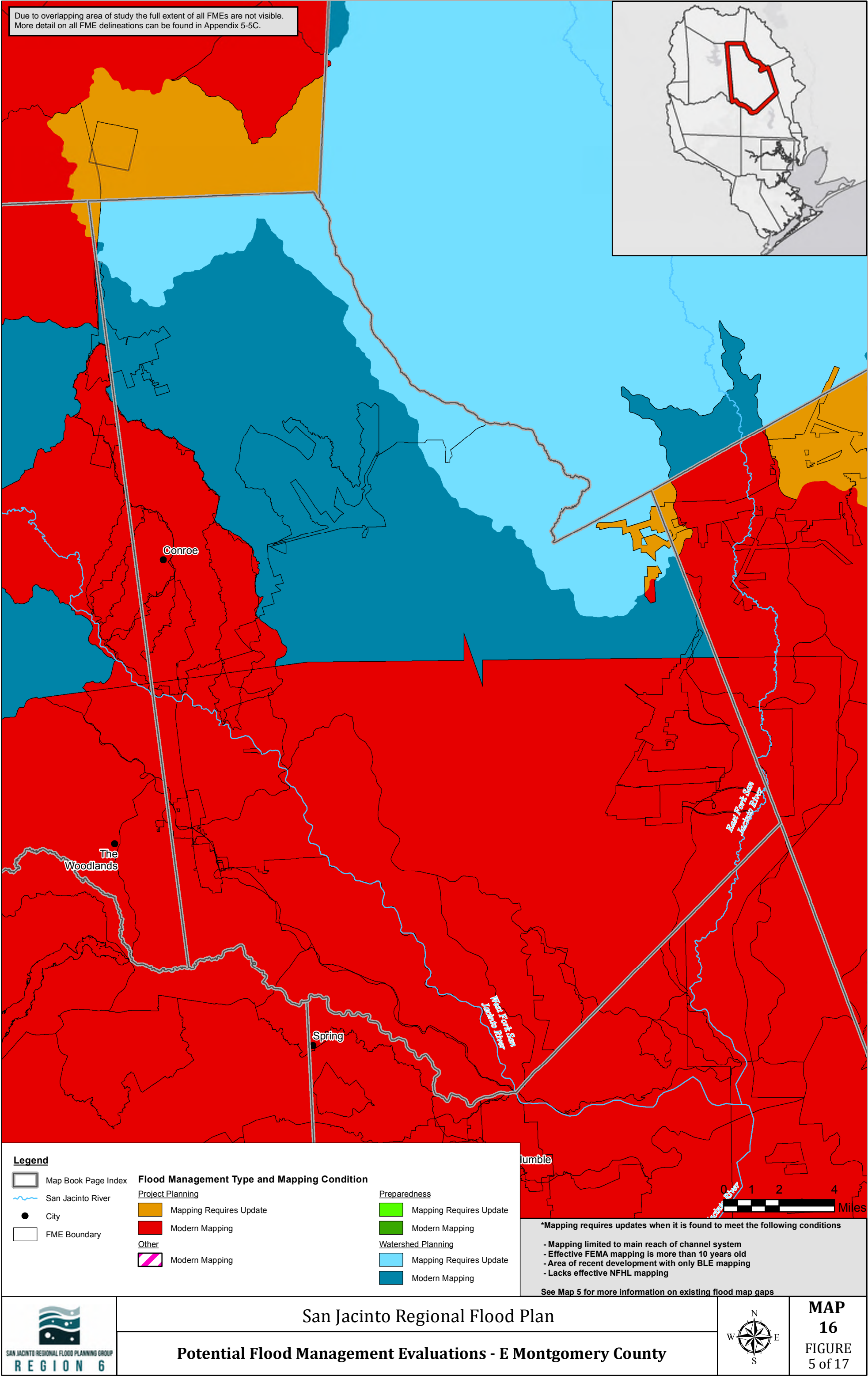
**San Jacinto Regional Flood Plan**

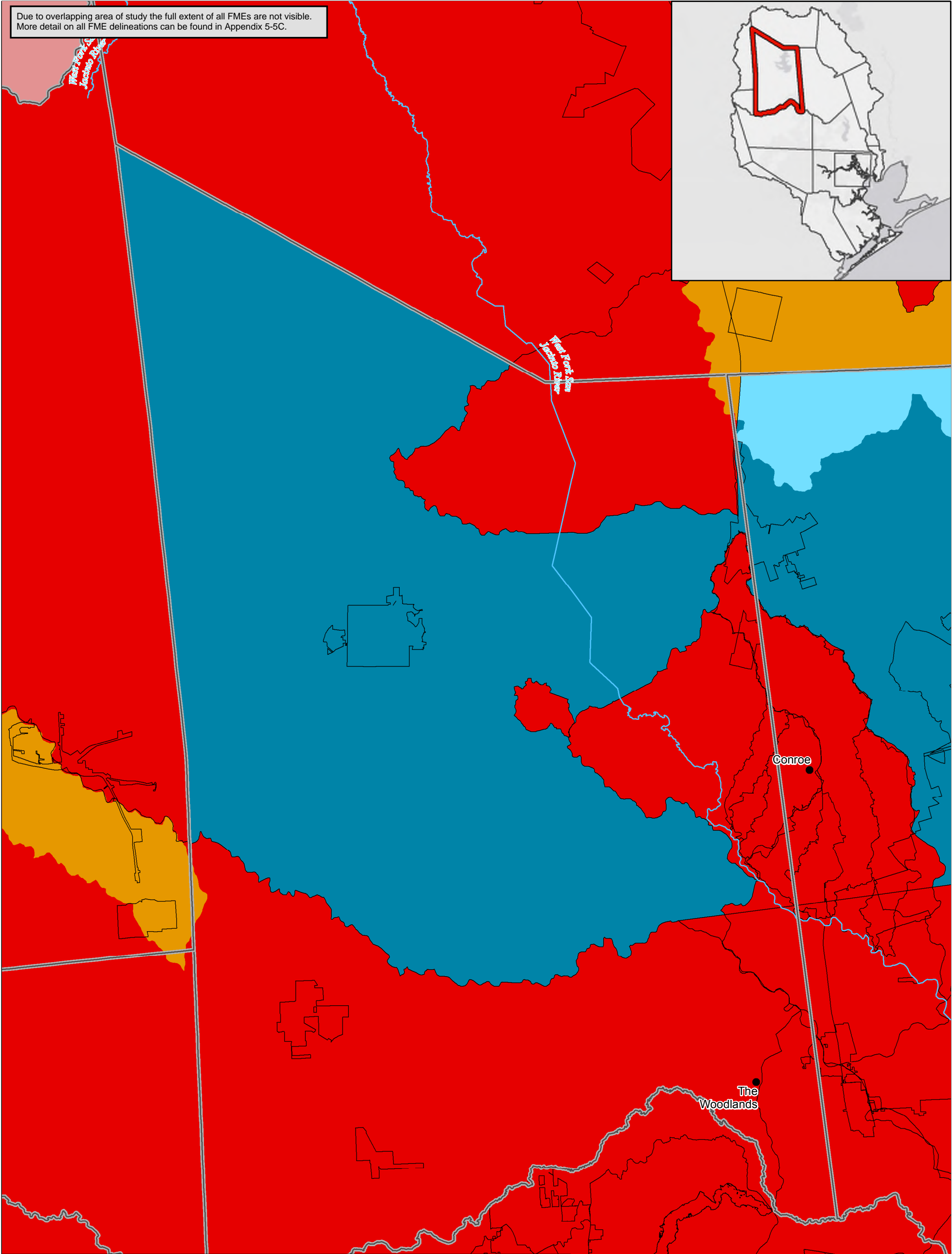
**Potential Flood Management Evaluations - Liberty County**



**MAP  
16**  
FIGURE  
4 of 17







**Legend**

Map Book Page Index

San Jacinto River

City

FME Boundary

**Flood Management Type and Mapping Condition**

Project Planning

Mapping Requires Update

Modern Mapping

Other

Modern Mapping

Preparedness

Mapping Requires Update

Modern Mapping

Watershed Planning

Mapping Requires Update

Modern Mapping

0 1 2 4 Miles

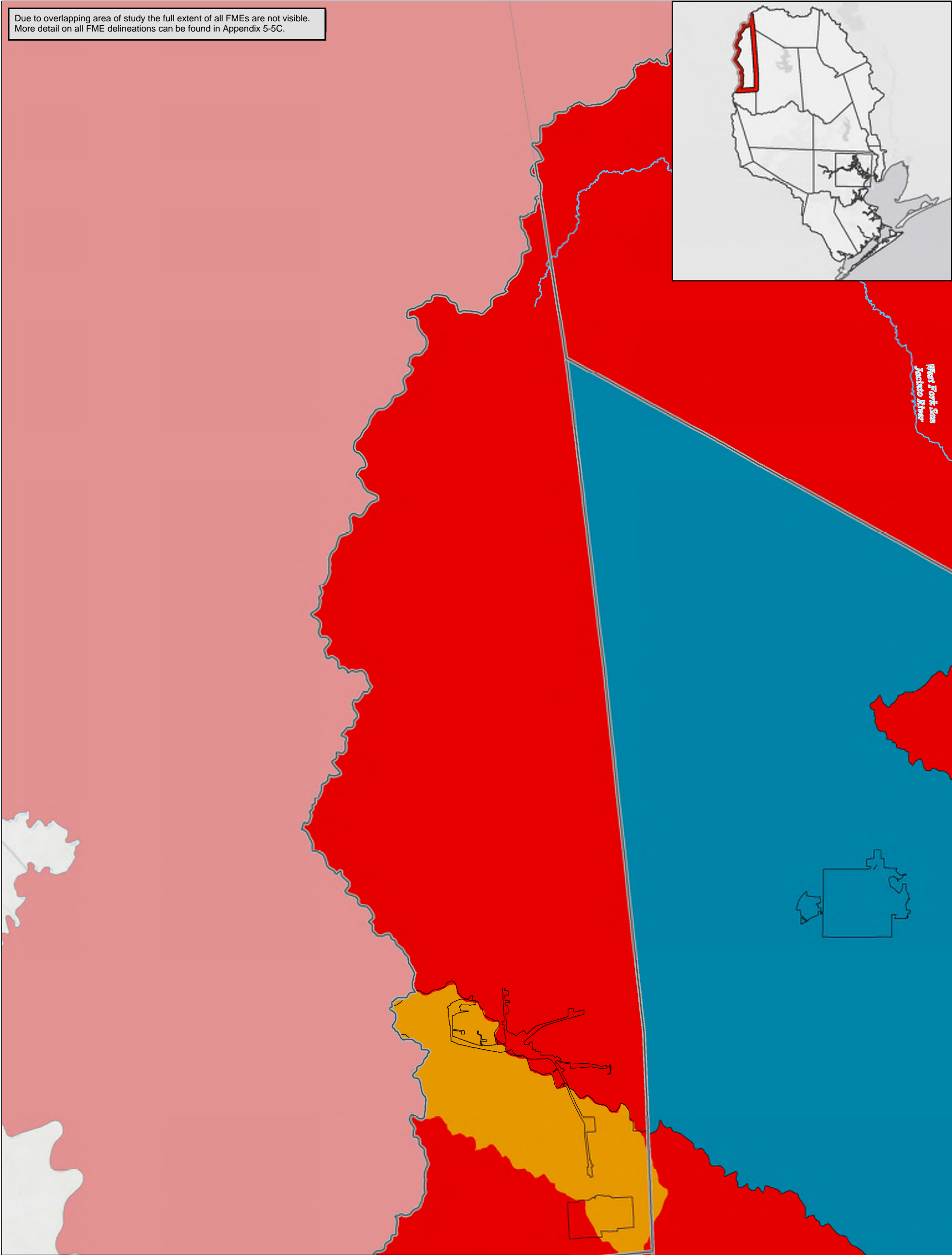
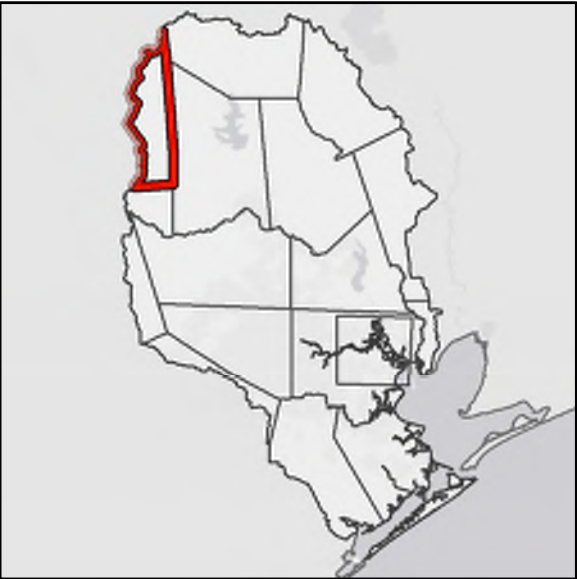
**\*Mapping requires updates when it is found to meet the following conditions**

- Mapping limited to main reach of channel system
- Effective FEMA mapping is more than 10 years old
- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

See Map 5 for more information on existing flood map gaps

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert

Due to overlapping area of study the full extent of all FMEs are not visible.  
More detail on all FME delineations can be found in Appendix 5-5C.



**Legend**

- Map Book Page Index
- San Jacinto River
- City
- FME Boundary

**Flood Management Type and Mapping Condition**

Project Planning

- Mapping Requires Update
- Modern Mapping

Other

- Modern Mapping

Preparedness

- Mapping Requires Update
- Modern Mapping

Watershed Planning

- Mapping Requires Update
- Modern Mapping



**\*Mapping requires updates when it is found to meet the following conditions**

- Mapping limited to main reach of channel system
- Effective FEMA mapping is more than 10 years old
- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

**See Map 5 for more information on existing flood map gaps**



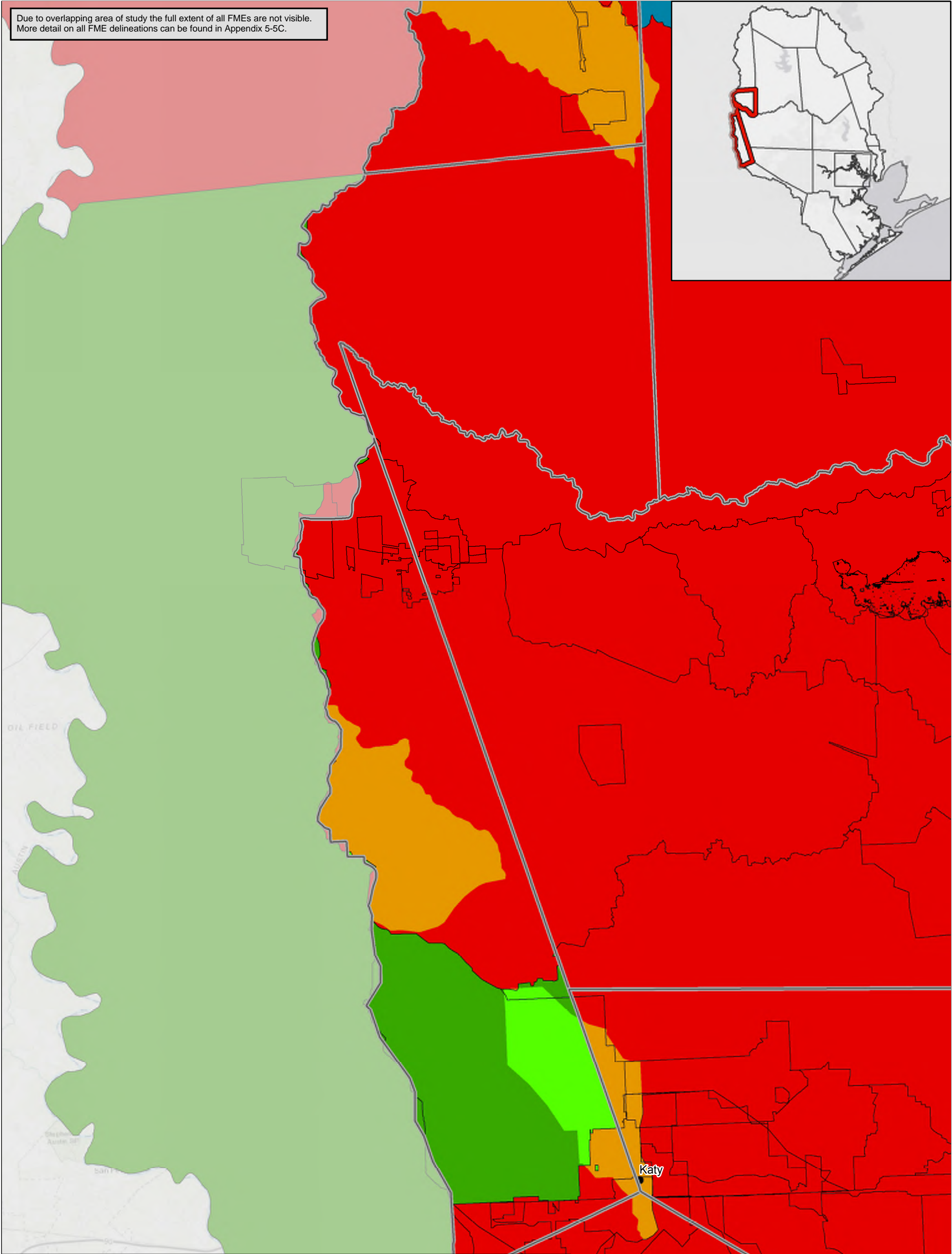
**San Jacinto Regional Flood Plan**

**Potential Flood Management Evaluations - Grimes County**



**MAP  
16  
FIGURE  
7 of 17**





**Legend**

- Map Book Page Index
- San Jacinto River
- City
- FME Boundary

**Flood Management Type and Mapping Condition**

Project Planning

- Mapping Requires Update
- Modern Mapping

Other

- Modern Mapping

Preparedness

- Mapping Requires Update
- Modern Mapping

Watershed Planning

- Mapping Requires Update
- Modern Mapping

**\*Mapping requires updates when it is found to meet the following conditions**

- Mapping limited to main reach of channel system
- Effective FEMA mapping is more than 10 years old
- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

See Map 5 for more information on existing flood map gaps

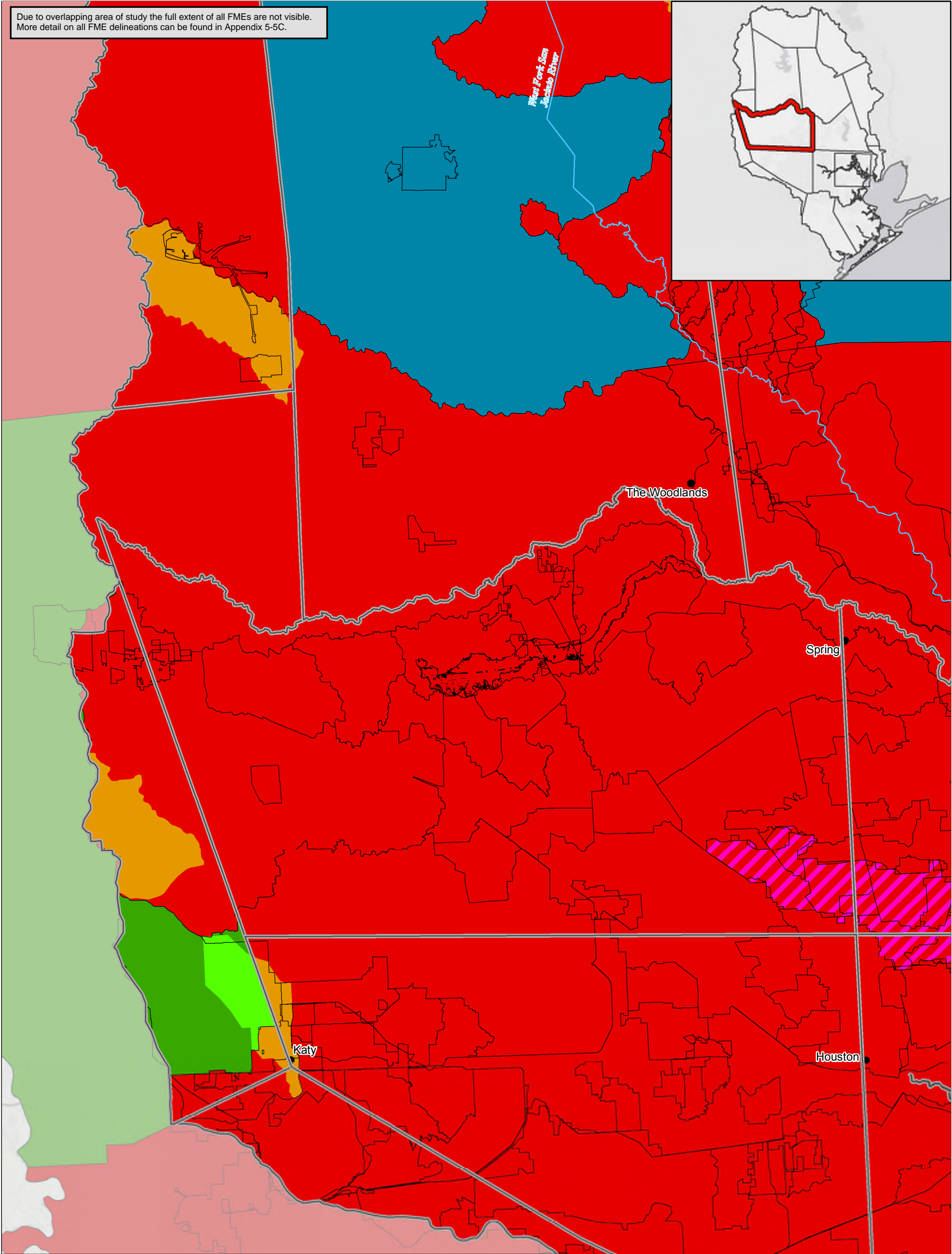


**San Jacinto Regional Flood Plan**

**Potential Flood Management Evaluations - Waller County**



**MAP  
16**  
FIGURE  
8 of 17



**Legend**

- Map Book Page Index
- San Jacinto River
- City
- FME Boundary

**Flood Management Type and Mapping Condition**

Project Planning

- Mapping Requires Update
- Modern Mapping

Other

- Modern Mapping

Preparedness

- Mapping Requires Update
- Modern Mapping

Watershed Planning

- Mapping Requires Update
- Modern Mapping

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- Effective FEMA mapping is more than 10 years old
- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

See Map 5 for more information on existing flood map gaps



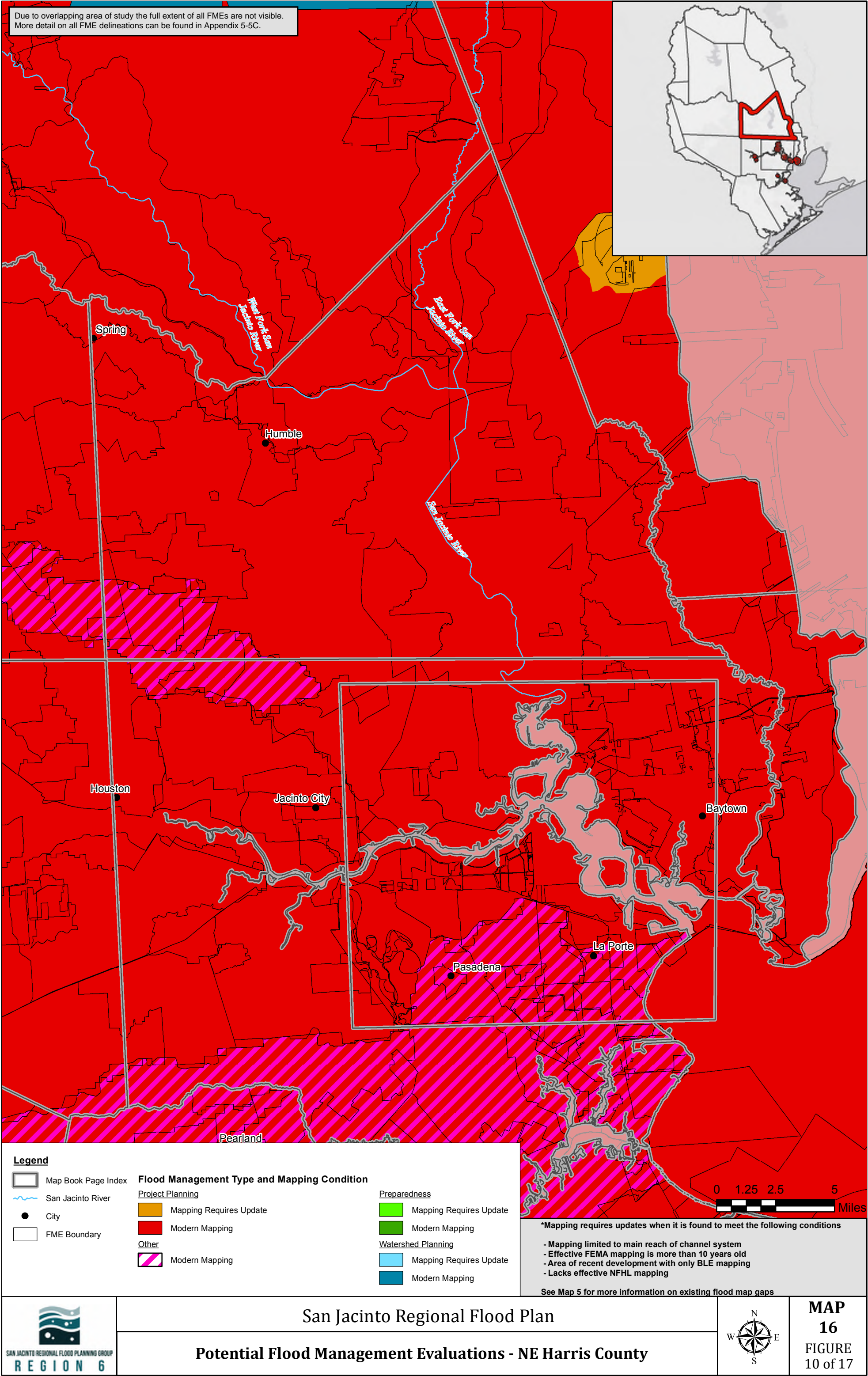
San Jacinto Regional Flood Plan

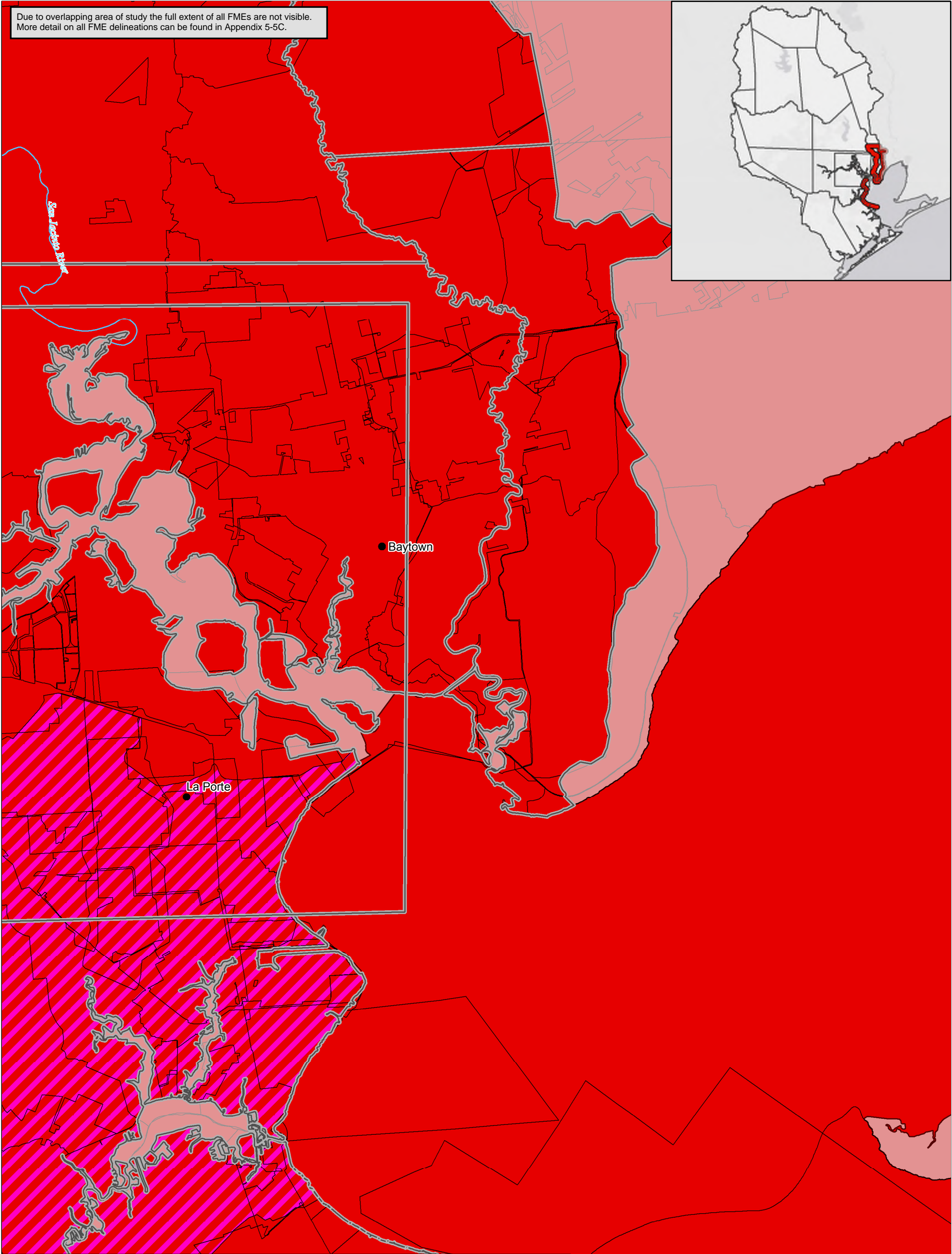
Potential Flood Management Evaluations - NW Harris County



**MAP**  
**16**  
**FIGURE**  
**9 of 17**







**Legend**

- Map Book Page Index
- San Jacinto River
- City
- FME Boundary

**Flood Management Type and Mapping Condition**

Project Planning

- Mapping Requires Update
- Modern Mapping

Other

- Modern Mapping

Preparedness

- Mapping Requires Update
- Modern Mapping

Watershed Planning

- Mapping Requires Update
- Modern Mapping

0 0.75 1.5 3  
Miles

**\*Mapping requires updates when it is found to meet the following conditions**

- Mapping limited to main reach of channel system
- Effective FEMA mapping is more than 10 years old
- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

**See Map 5 for more information on existing flood map gaps**



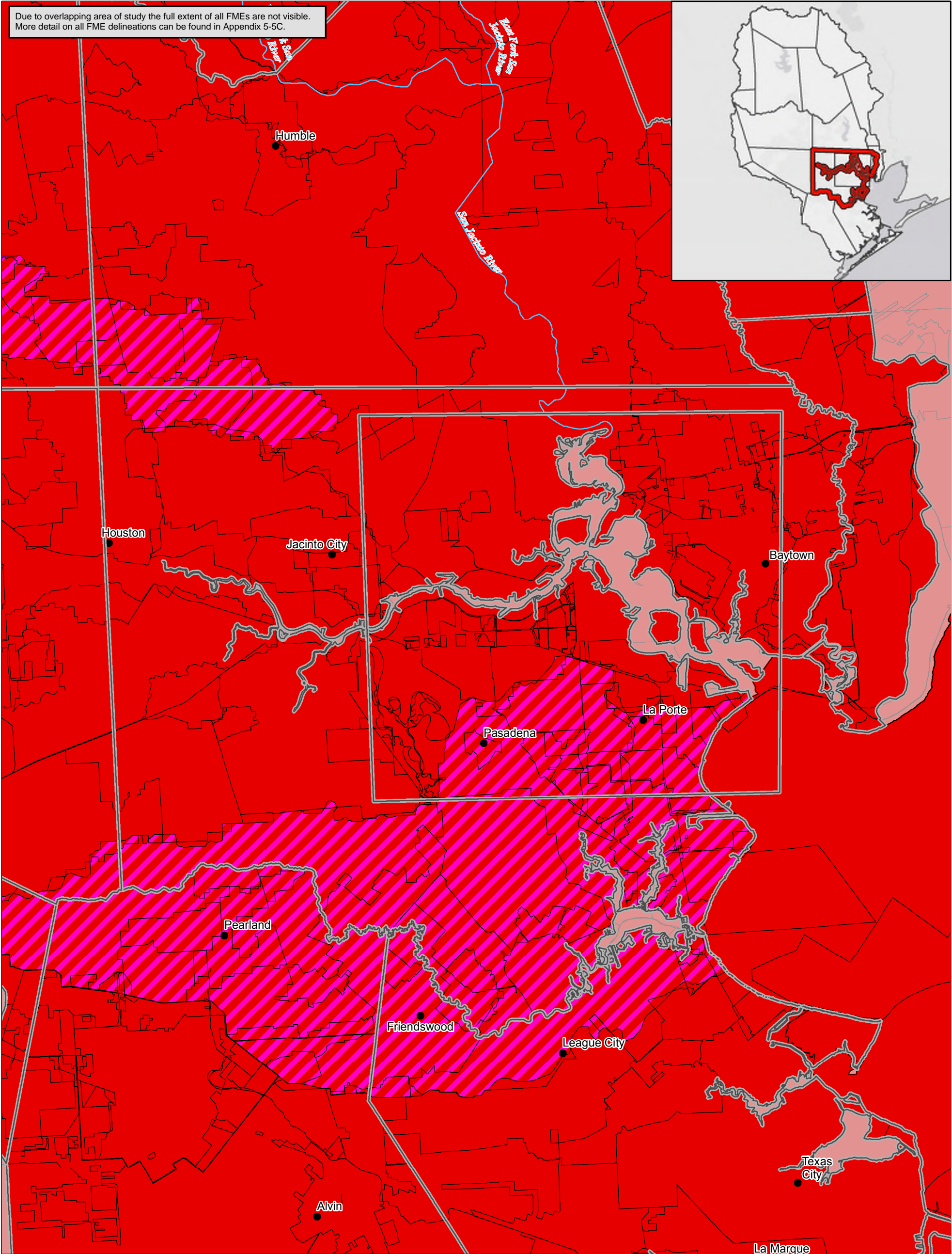
**San Jacinto Regional Flood Plan**

**Potential Flood Management Evaluations - Chambers County**



**MAP  
16  
FIGURE  
11 of 17**





**Legend**

Map Book Page Index

San Jacinto River

City

FME Boundary

**Flood Management Type and Mapping Condition**

Project Planning

Mapping Requires Update

Modern Mapping

Other

Modern Mapping

Preparedness

Mapping Requires Update

Modern Mapping

Watershed Planning

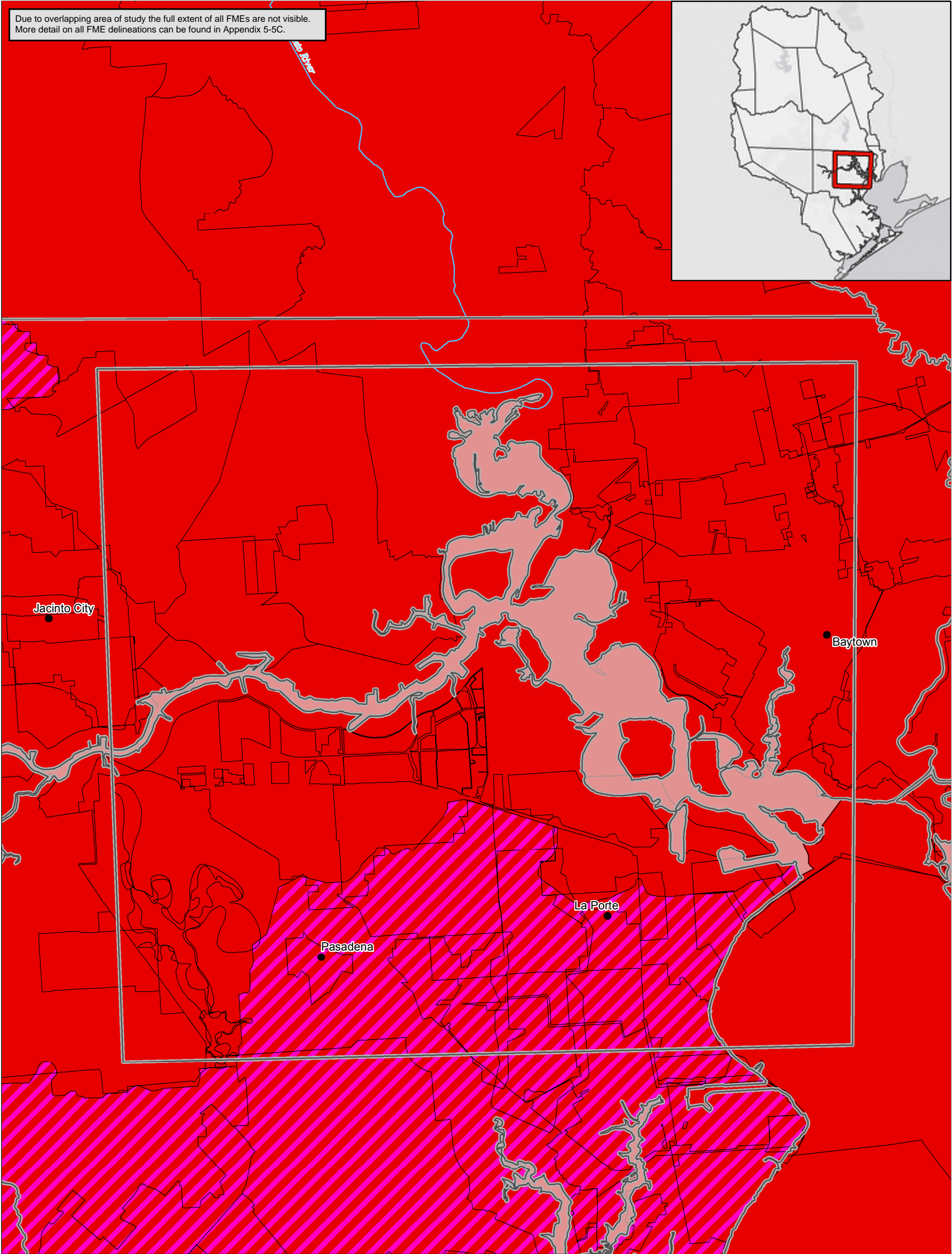
Mapping Requires Update

Modern Mapping

**\*Mapping requires updates when it is found to meet the following conditions**

- Mapping limited to main reach of channel system
- Effective FEMA mapping is more than 10 years old
- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

See Map 5 for more information on existing flood map gaps



**Legend**

- Map Book Page Index
- San Jacinto River
- City
- FME Boundary

**Flood Management Type and Mapping Condition**

Project Planning

- Mapping Requires Update
- Modern Mapping

Other

- Modern Mapping

Preparedness

- Mapping Requires Update
- Modern Mapping

Watershed Planning

- Mapping Requires Update
- Modern Mapping

**\*Mapping requires updates when it is found to meet the following conditions**

- Mapping limited to main reach of channel system
- Effective FEMA mapping is more than 10 years old
- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

See Map 5 for more information on existing flood map gaps



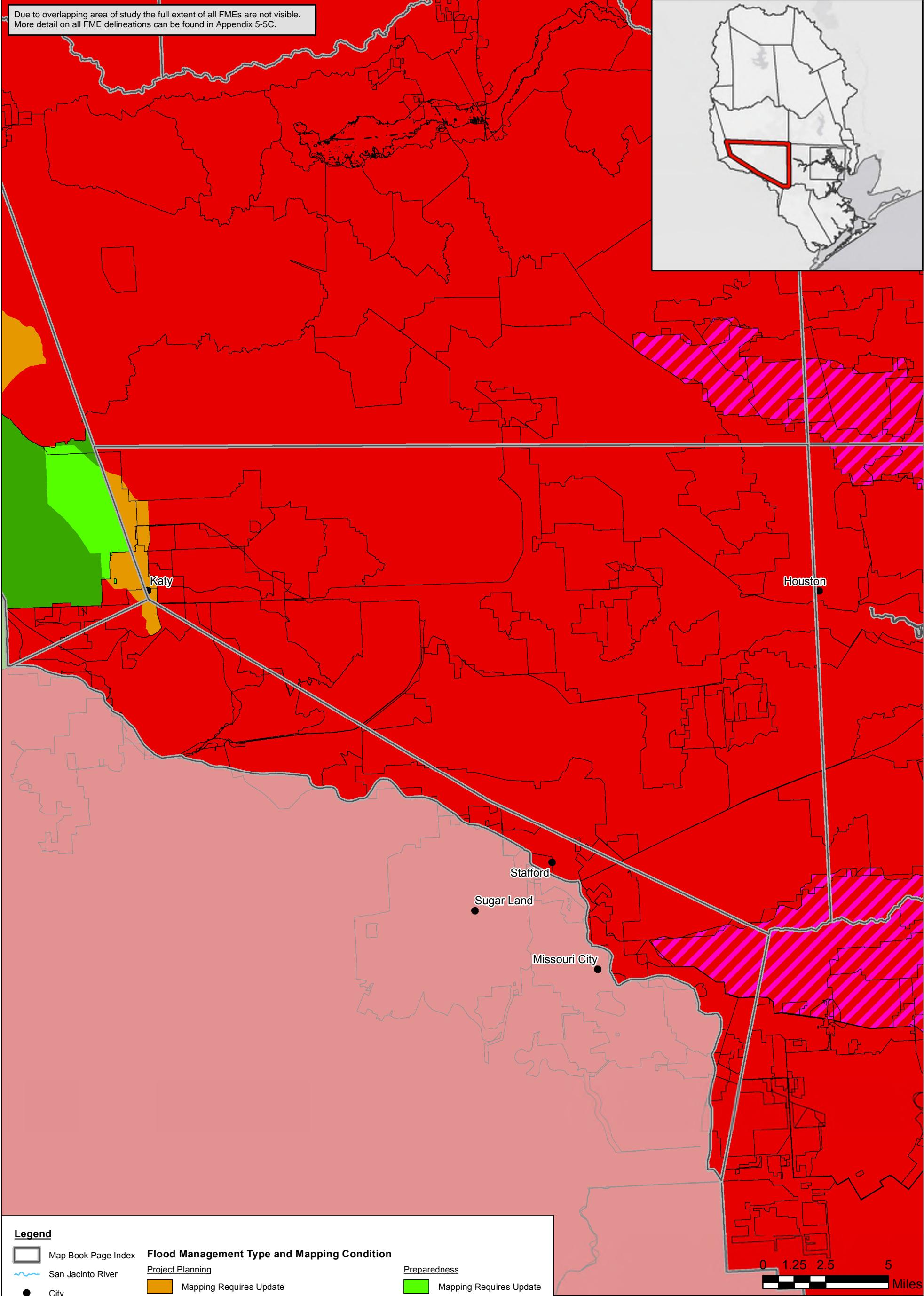
**San Jacinto Regional Flood Plan**

**Potential Flood Management Evaluations - Harris County Ship Channel**



**MAP  
16**  
**FIGURE  
13 of 17**





**Legend**

Map Book Page Index

San Jacinto River

City

FME Boundary

**Flood Management Type and Mapping Condition**

Project Planning

Mapping Requires Update

Modern Mapping

Other

Modern Mapping

Preparedness

Mapping Requires Update

Modern Mapping

Watershed Planning

Mapping Requires Update

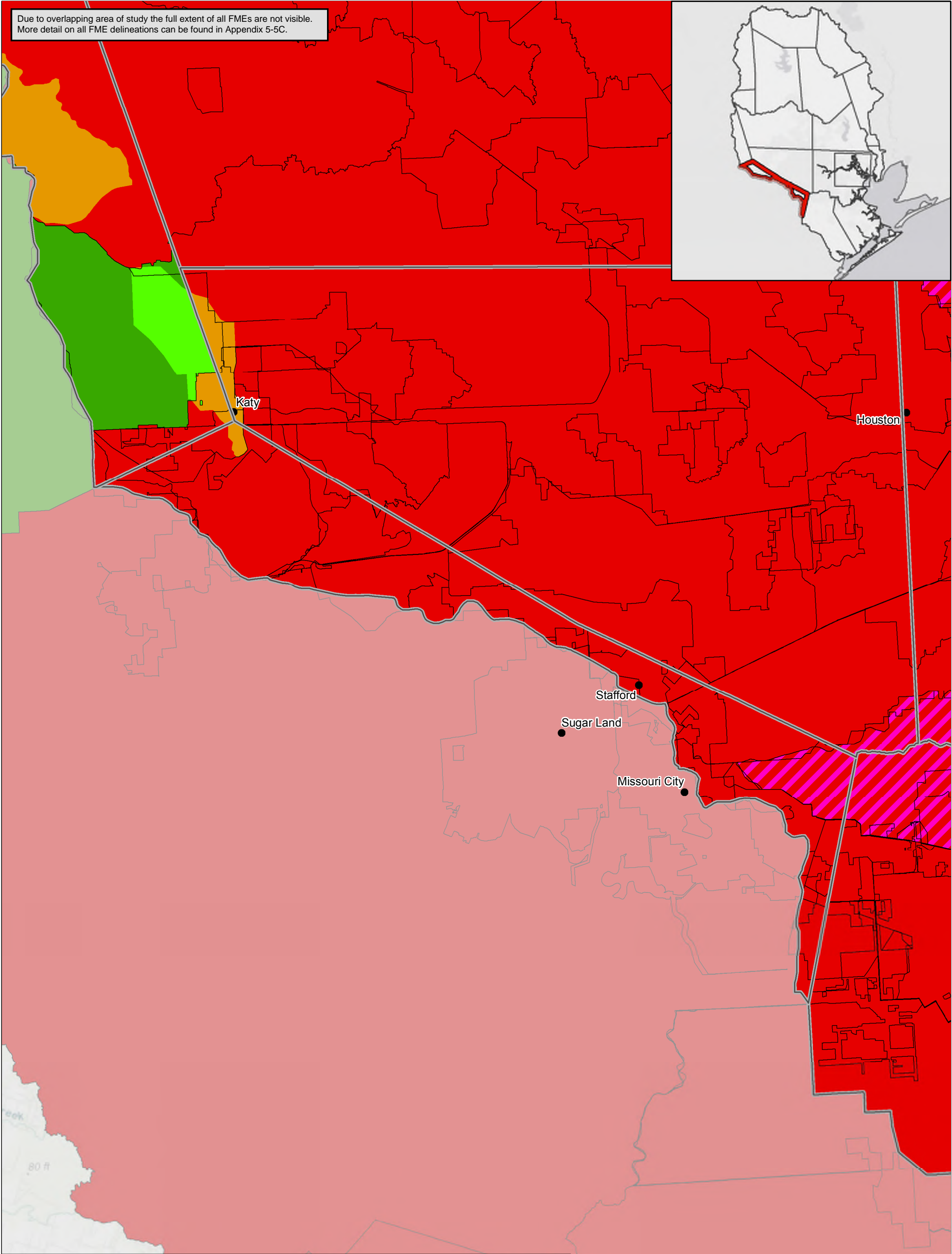
Modern Mapping

**\*Mapping requires updates when it is found to meet the following conditions**

- Mapping limited to main reach of channel system
- Effective FEMA mapping is more than 10 years old
- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

**See Map 5 for more information on existing flood map gaps**

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



**Legend**

Map Book Page Index

San Jacinto River

City

FME Boundary

**Flood Management Type and Mapping Condition**

Project Planning

Mapping Requires Update

Modern Mapping

Other

Modern Mapping

Preparedness

Mapping Requires Update

Modern Mapping

Watershed Planning

Mapping Requires Update

Modern Mapping

0 1.25 2.5 5 Miles

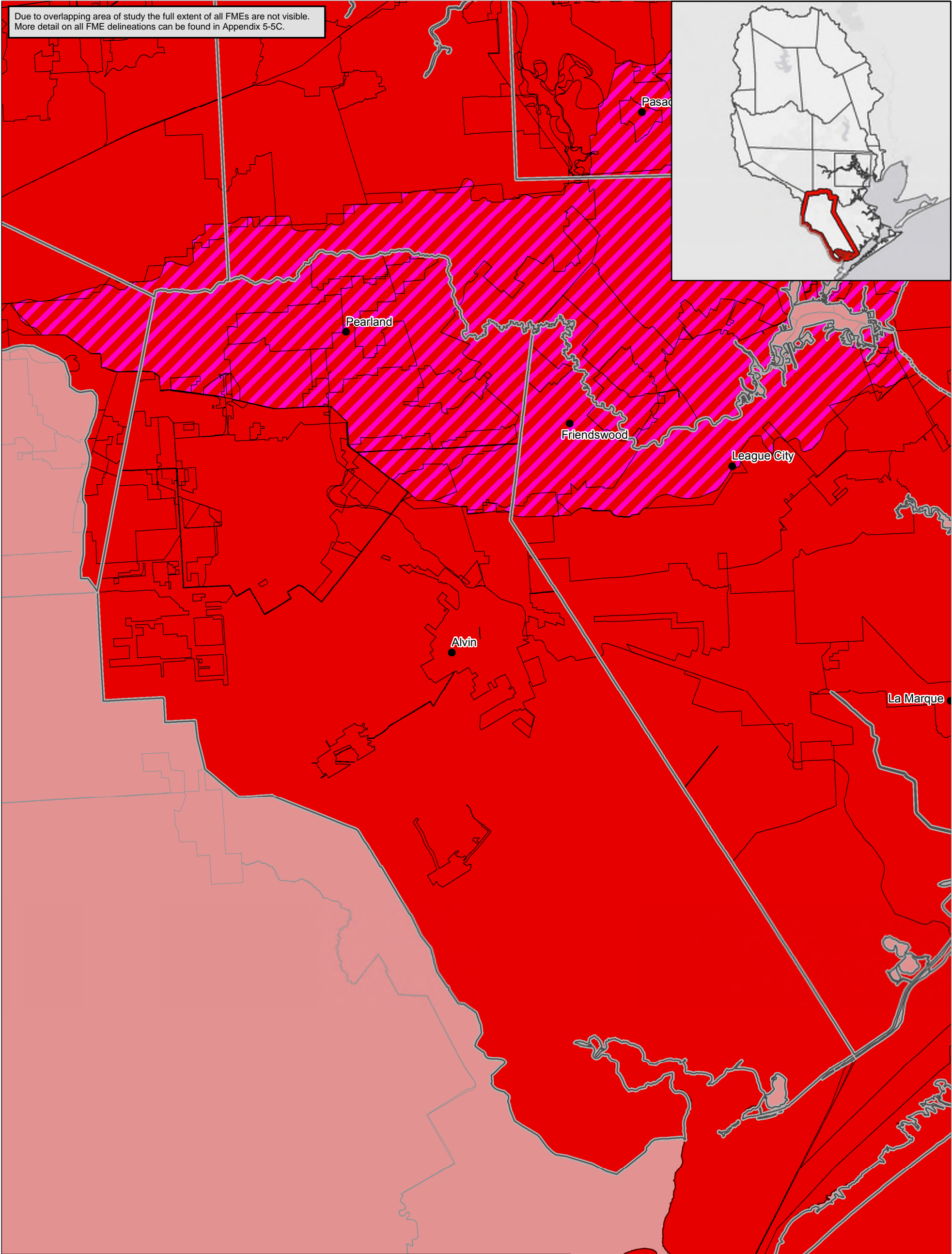
**\*Mapping requires updates when it is found to meet the following conditions**

- Mapping limited to main reach of channel system
- Effective FEMA mapping is more than 10 years old
- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

See Map 5 for more information on existing flood map gaps

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert





**Legend**

- Map Book Page Index
- San Jacinto River
- City
- FME Boundary

**Flood Management Type and Mapping Condition**

Project Planning

- Mapping Requires Update
- Modern Mapping

Other

- Modern Mapping

Preparedness

- Mapping Requires Update
- Modern Mapping

Watershed Planning

- Mapping Requires Update
- Modern Mapping

**\*Mapping requires updates when it is found to meet the following conditions**

- Mapping limited to main reach of channel system
- Effective FEMA mapping is more than 10 years old
- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

See Map 5 for more information on existing flood map gaps

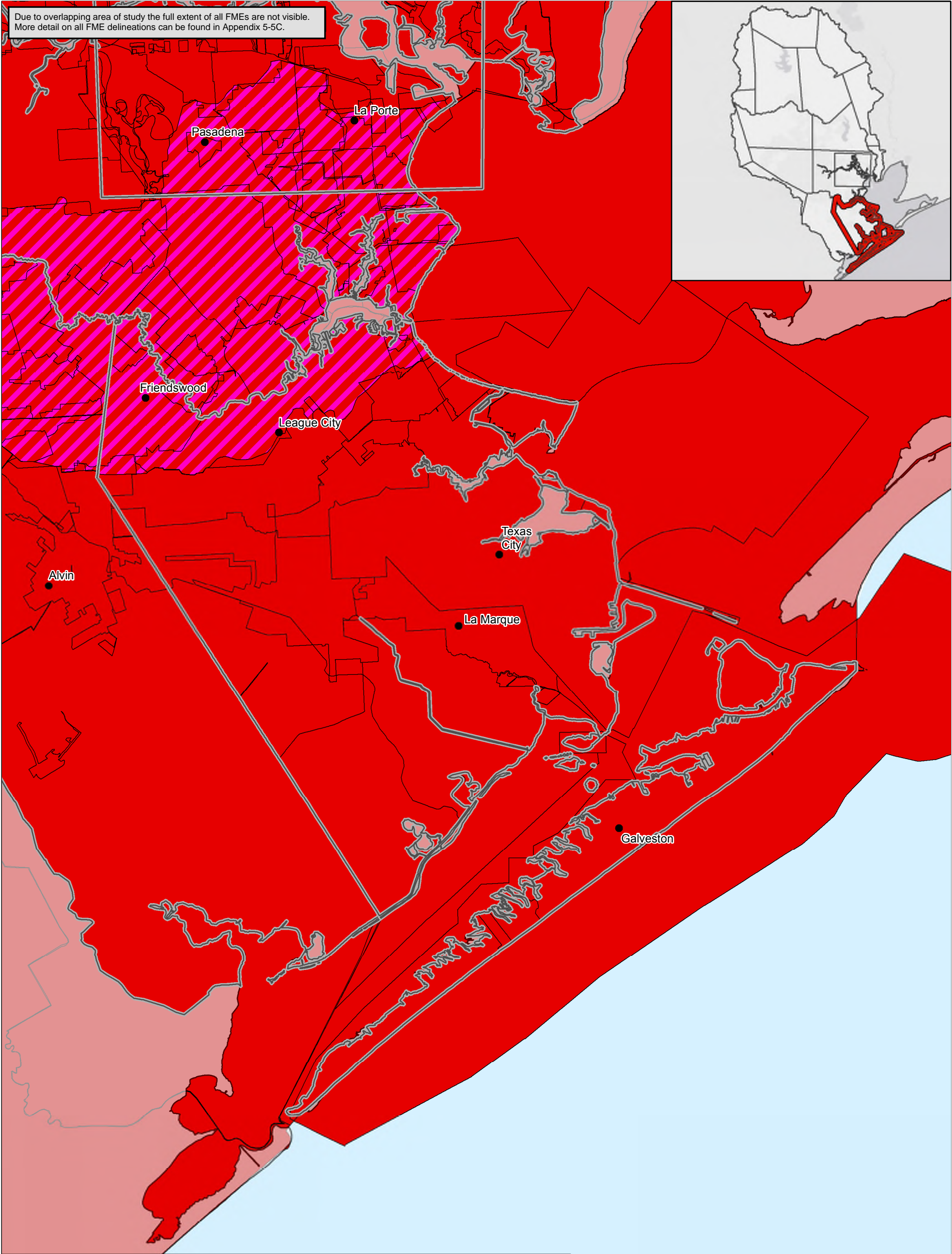


**San Jacinto Regional Flood Plan**

**Potential Flood Management Evaluations - Brazoria County**



**MAP  
16  
FIGURE  
16 of 17**



**Legend**

- Map Book Page Index
- San Jacinto River
- City
- FME Boundary

**Flood Management Type and Mapping Condition**

Project Planning

- Mapping Requires Update
- Modern Mapping

Other

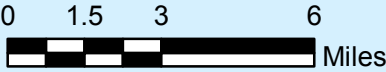
- Modern Mapping

Preparedness

- Mapping Requires Update
- Modern Mapping

Watershed Planning

- Mapping Requires Update
- Modern Mapping



**\*Mapping requires updates when it is found to meet the following conditions**

- Mapping limited to main reach of channel system
- Effective FEMA mapping is more than 10 years old
- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

See Map 5 for more information on existing flood map gaps



San Jacinto Regional Flood Plan

Potential Flood Management Evaluations - Galveston County



**MAP  
16**  
FIGURE  
17 of 17

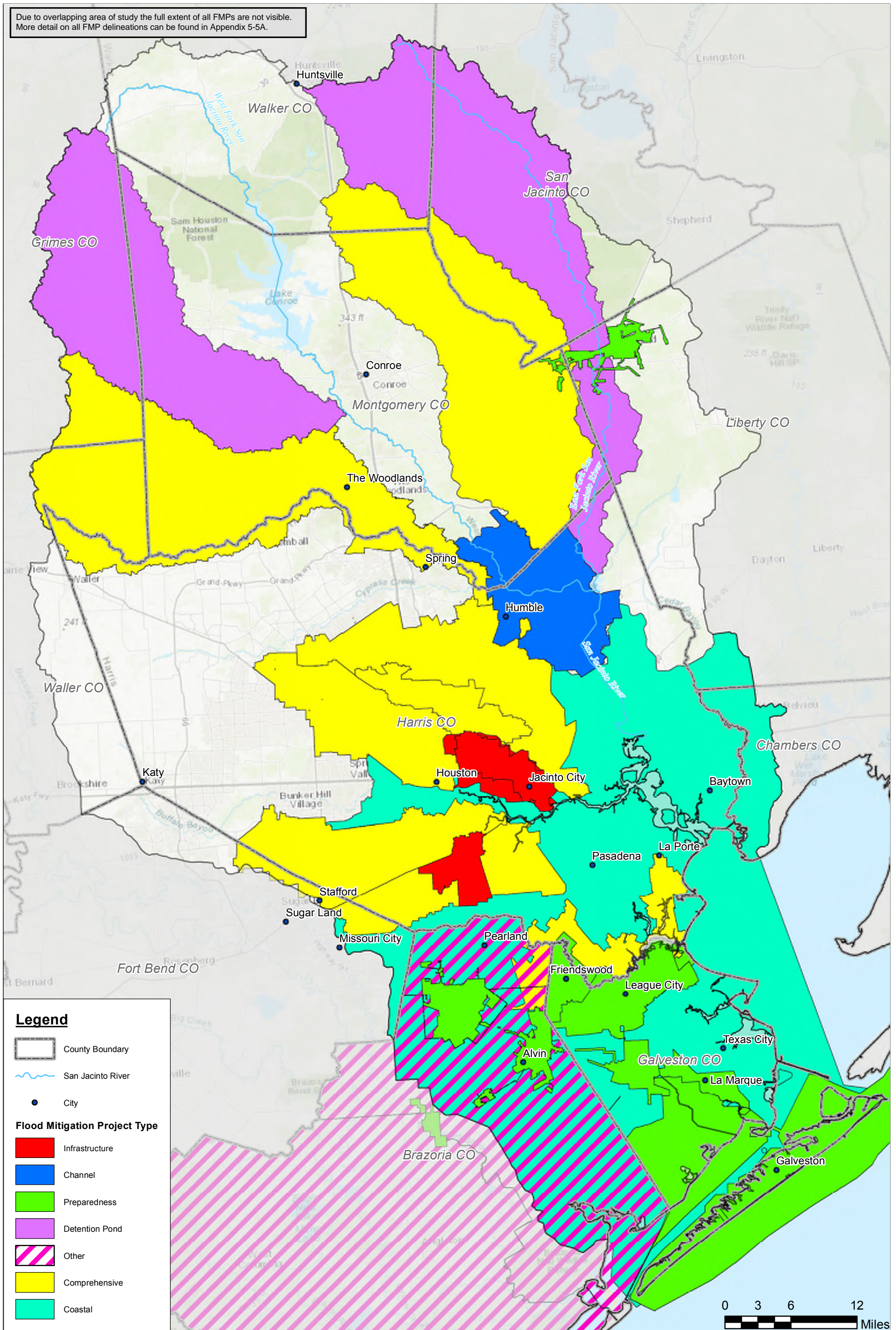
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**Appendix 4-2:**  
**Map 17 – Potential Flood Mitigation Projects**

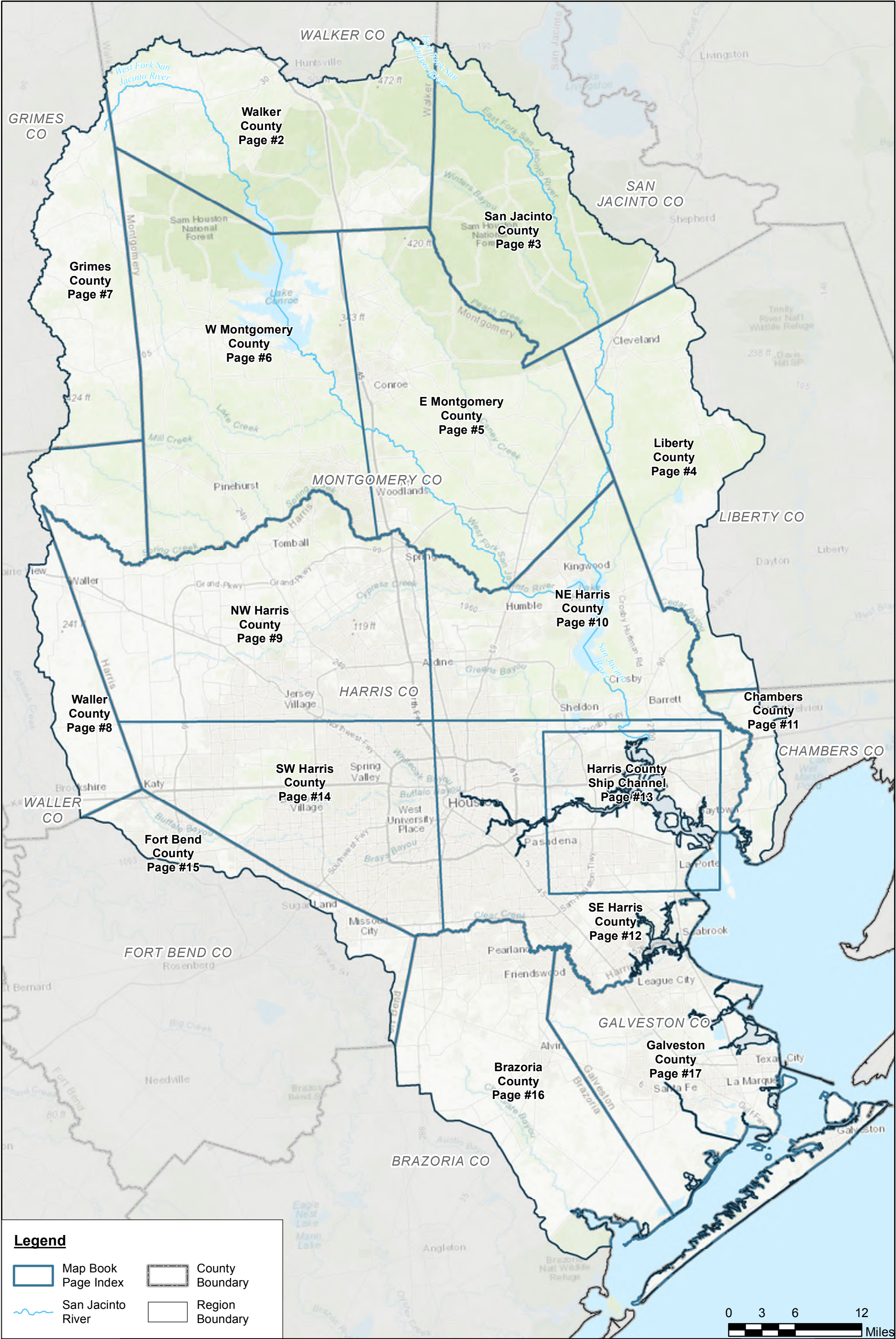
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Due to overlapping area of study the full extent of all FMPs are not visible.  
More detail on all FMP delineations can be found in Appendix 5-5A.







San Jacinto Regional Flood Plan

Potential Flood Mitigation Projects - Index

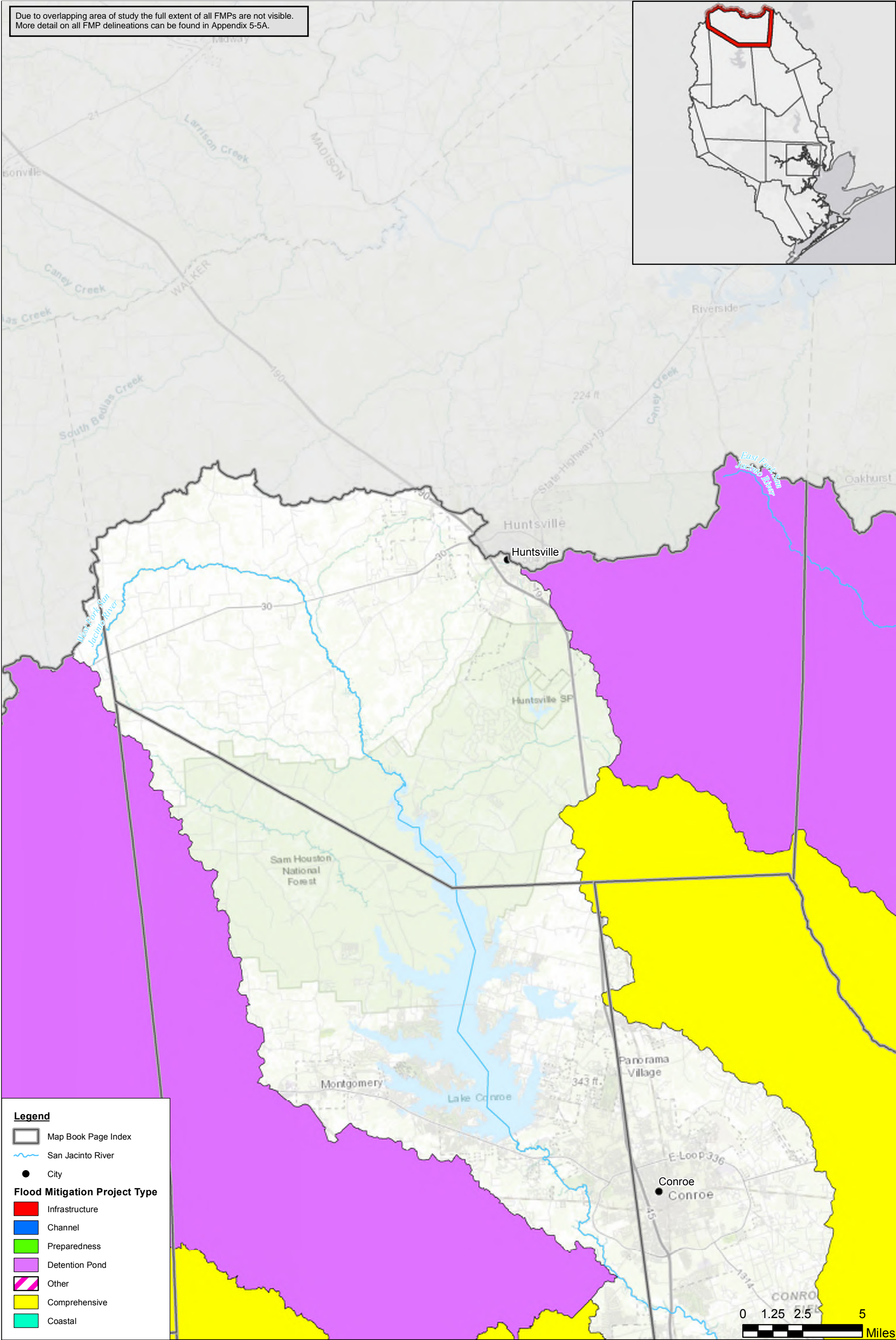
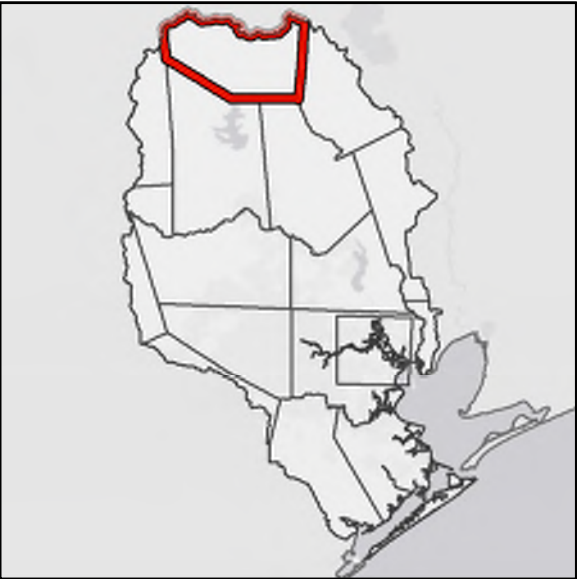


**MAP**  
**17**  
**FIGURE**  
**1 of 17**

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



Due to overlapping area of study the full extent of all FMPs are not visible. More detail on all FMP delineations can be found in Appendix 5-5A.



**Legend**

Map Book Page Index

San Jacinto River

City

**Flood Mitigation Project Type**

Infrastructure

Channel

Preparedness

Detention Pond

Other

Comprehensive

Coastal



San Jacinto Regional Flood Plan

Potential Flood Mitigation Projects - Walker County

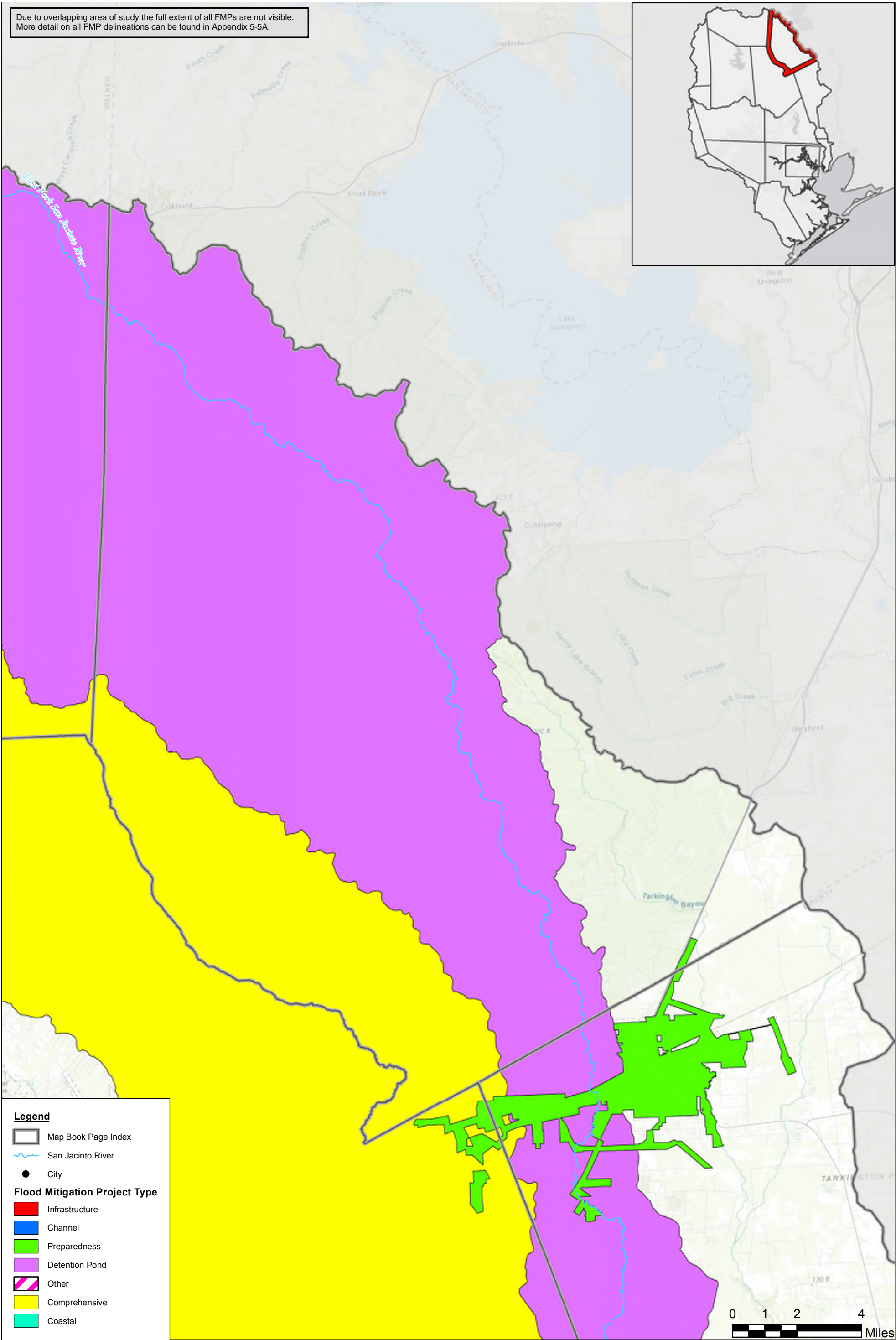


**MAP**  
**17**  
**FIGURE**  
**2 of 17**

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



Due to overlapping area of study the full extent of all FMPs are not visible.  
More detail on all FMP delineations can be found in Appendix 5-5A.



# San Jacinto Regional Flood Plan

## Potential Flood Mitigation Projects - San Jacinto County

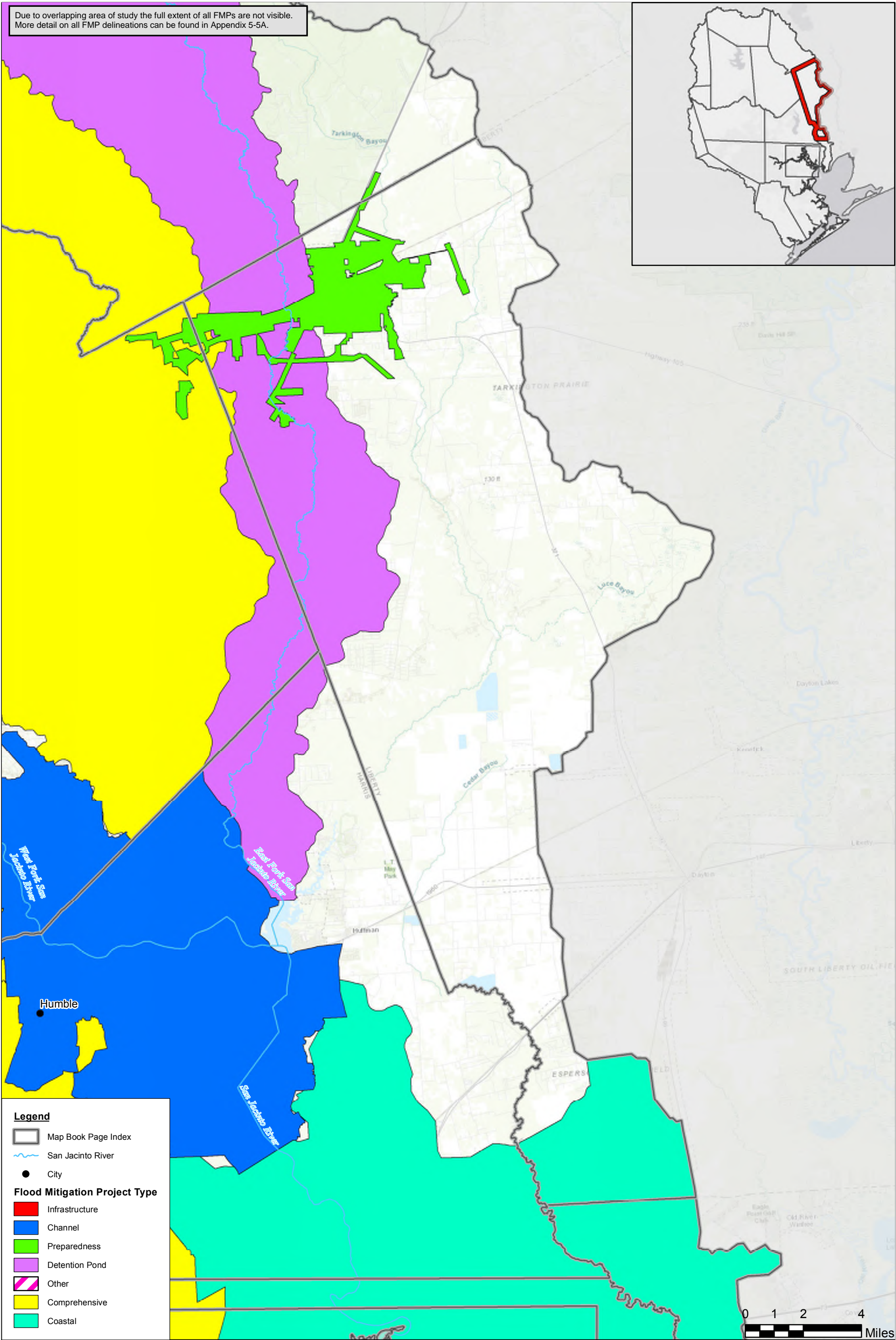


**MAP 17**  
**FIGURE 3 of 17**

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



Due to overlapping area of study the full extent of all FMPs are not visible.  
More detail on all FMP delineations can be found in Appendix 5-5A.



**Legend**

Map Book Page Index

San Jacinto River

City

**Flood Mitigation Project Type**

Infrastructure

Channel

Preparedness

Detention Pond

Other

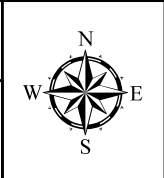
Comprehensive

Coastal



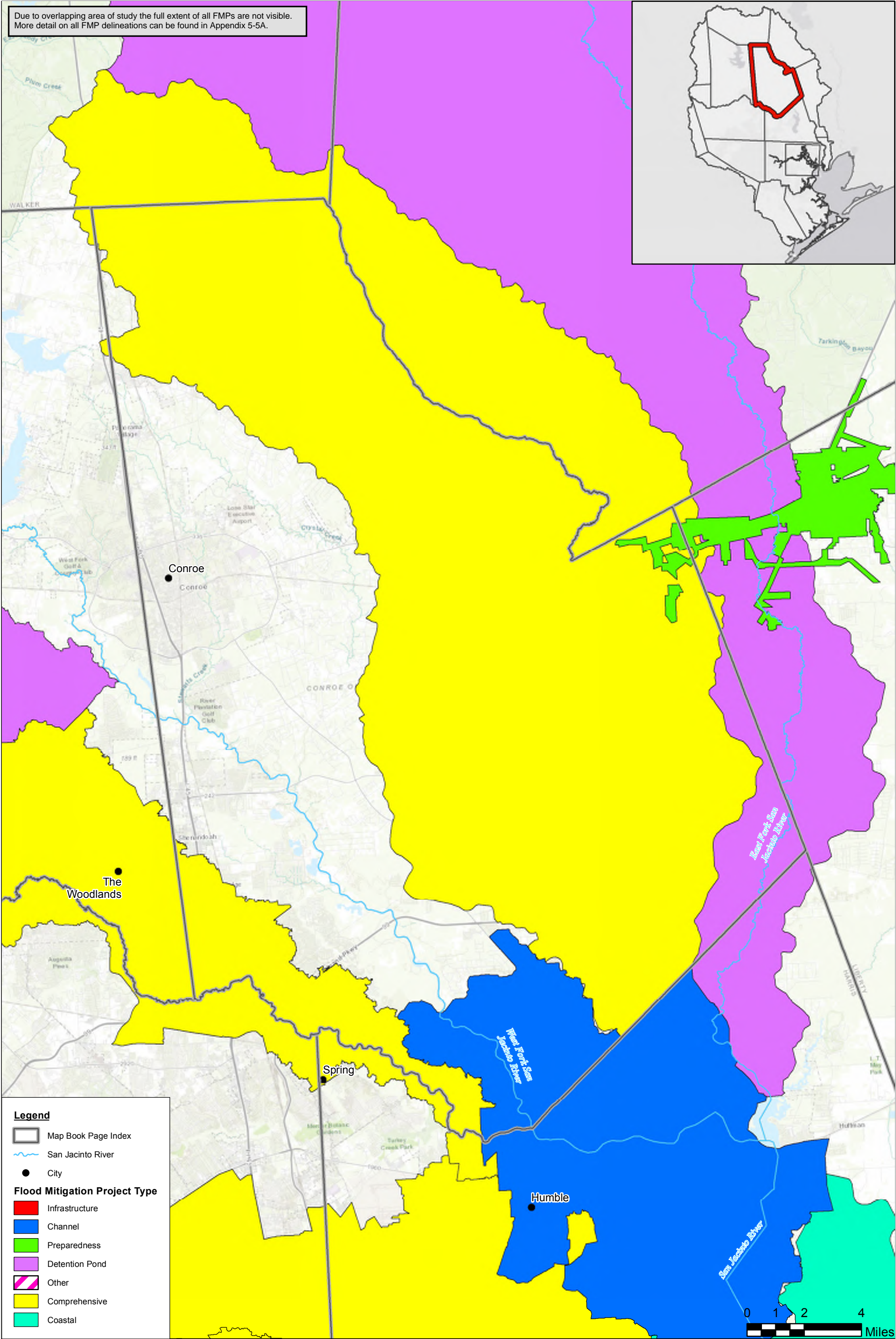
San Jacinto Regional Flood Plan

Potential Flood Mitigation Projects - Liberty County



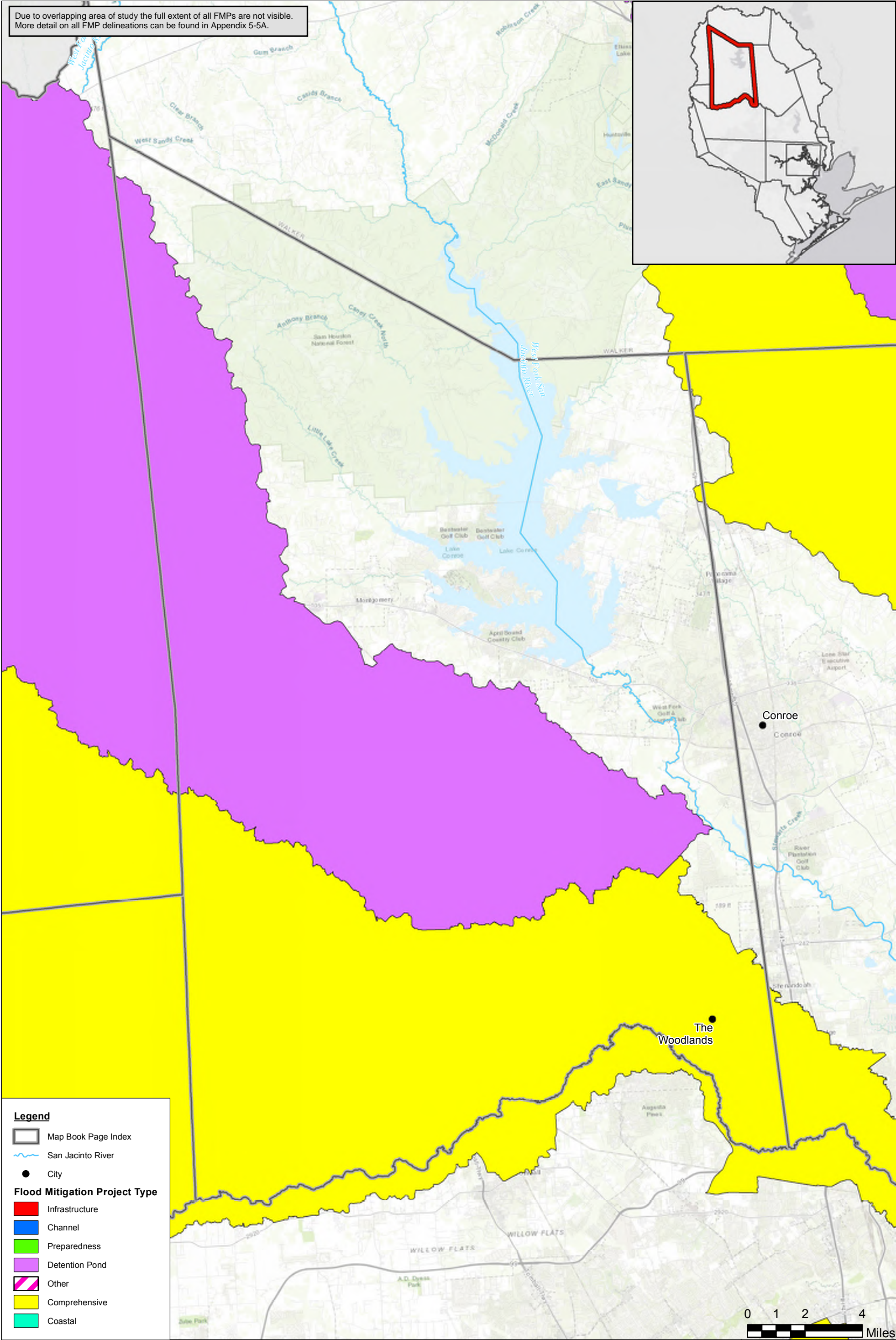
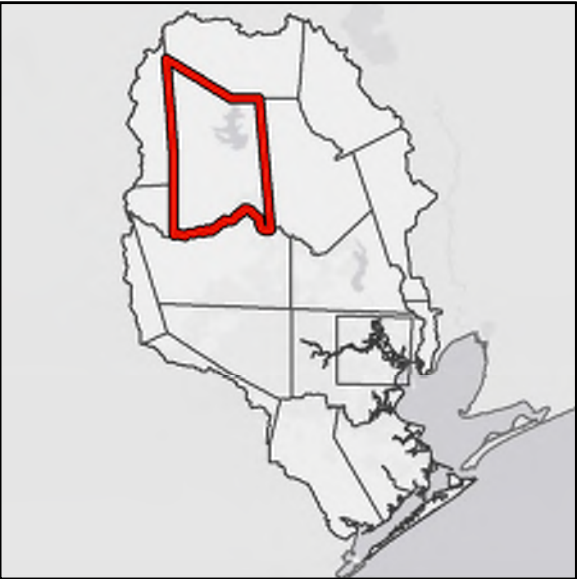
Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert







Due to overlapping area of study the full extent of all FMPs are not visible. More detail on all FMP delineations can be found in Appendix 5-5A.



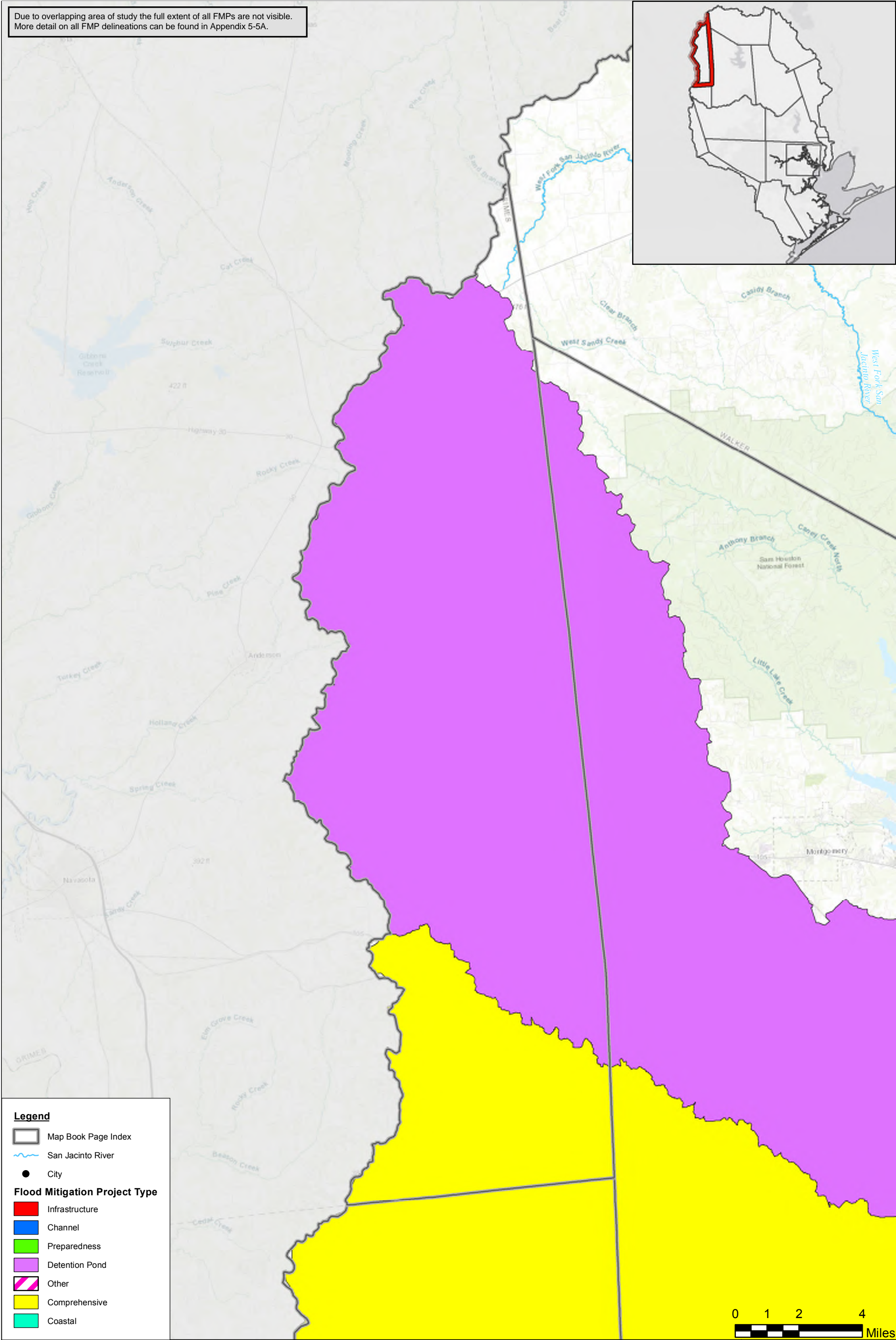
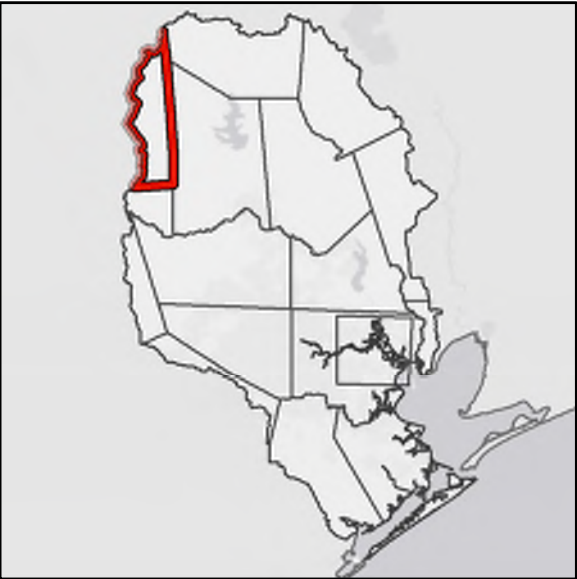
- Legend**
- Map Book Page Index
  - San Jacinto River
  - City
  - Flood Mitigation Project Type**
    - Infrastructure
    - Channel
    - Preparedness
    - Detention Pond
    - Other
    - Comprehensive
    - Coastal



Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



Due to overlapping area of study the full extent of all FMPs are not visible. More detail on all FMP delineations can be found in Appendix 5-5A.



**Legend**

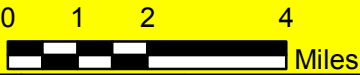
Map Book Page Index

San Jacinto River

City

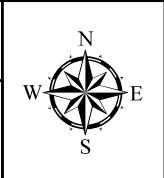
**Flood Mitigation Project Type**

- Infrastructure
- Channel
- Preparedness
- Detention Pond
- Other
- Comprehensive
- Coastal



San Jacinto Regional Flood Plan

Potential Flood Mitigation Projects - Grimes County



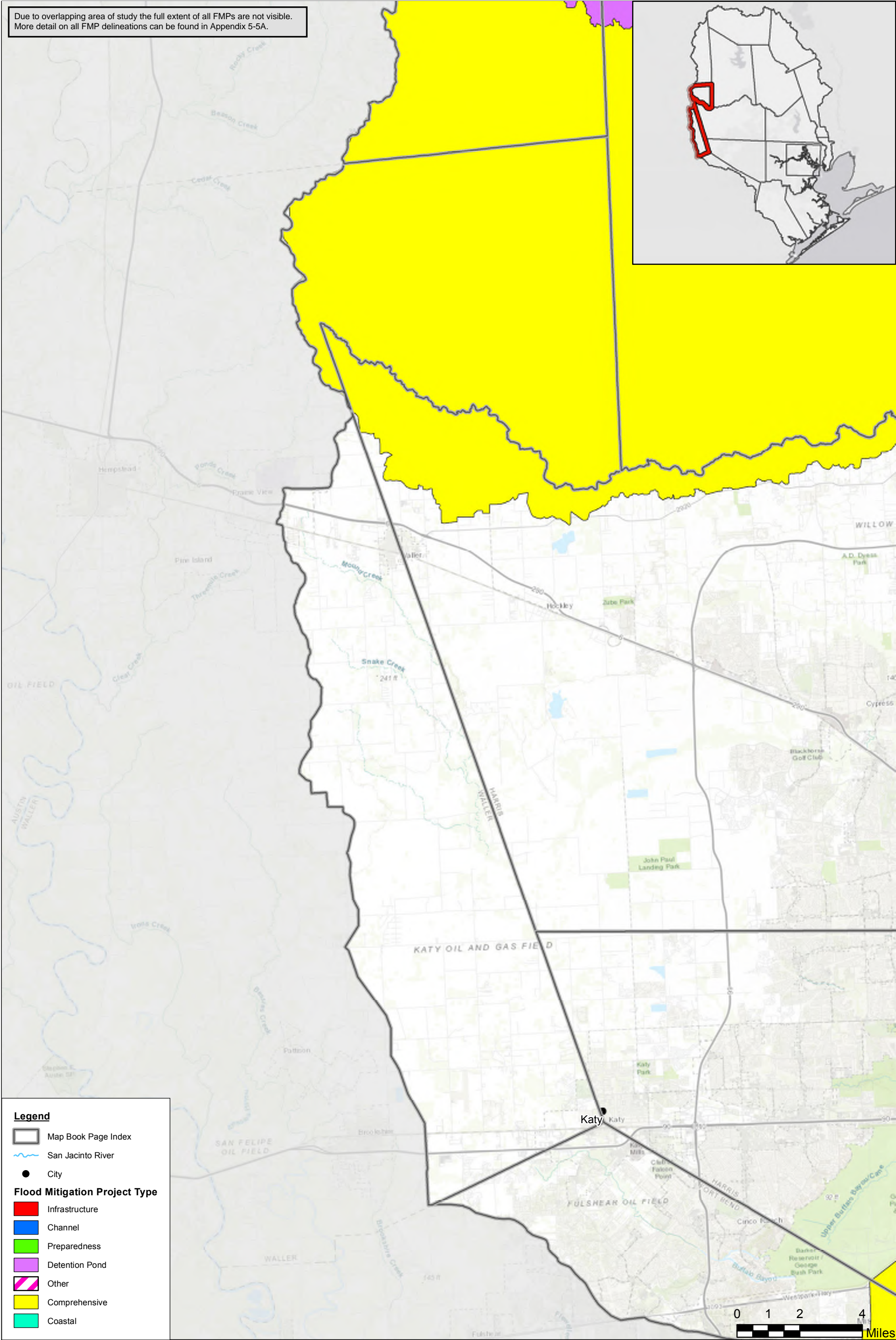
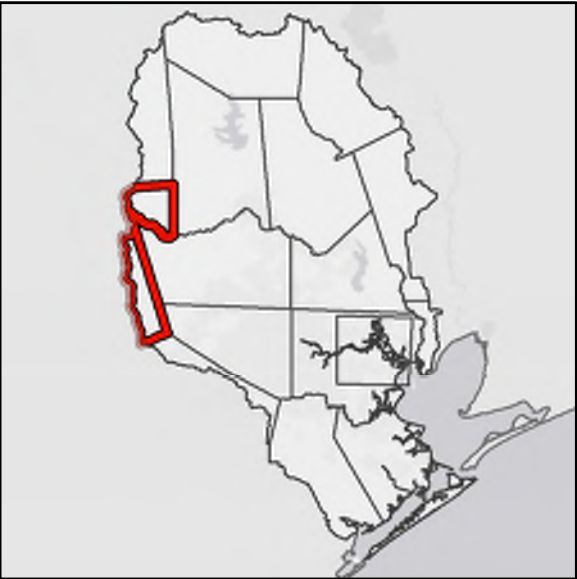
**MAP 17**

FIGURE 7 of 17

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



Due to overlapping area of study the full extent of all FMPs are not visible. More detail on all FMP delineations can be found in Appendix 5-5A.



**Legend**

- Map Book Page Index
- San Jacinto River
- City

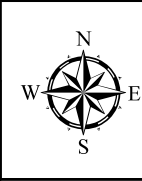
**Flood Mitigation Project Type**

- Infrastructure
- Channel
- Preparedness
- Detention Pond
- Other
- Comprehensive
- Coastal



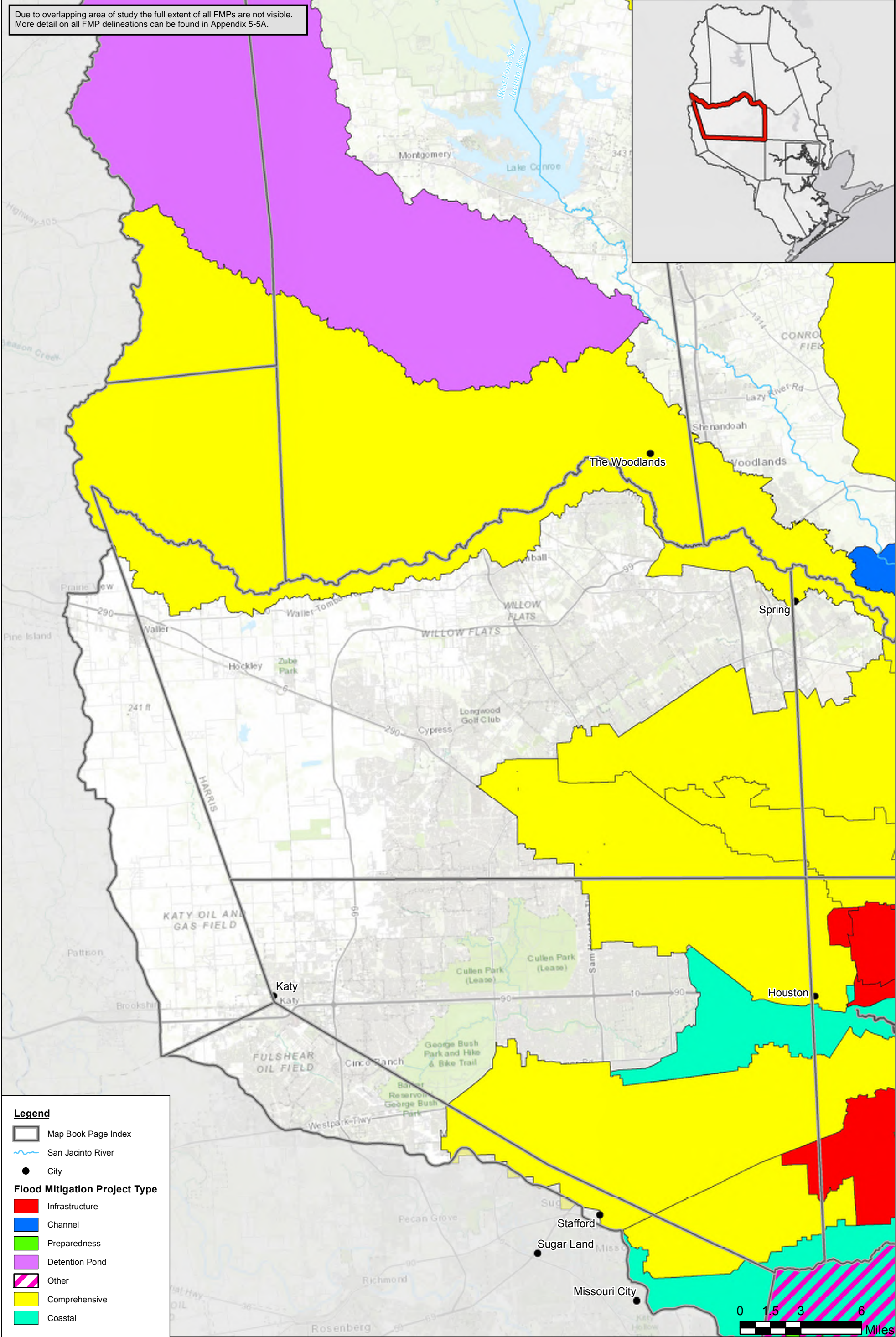
San Jacinto Regional Flood Plan

Potential Flood Mitigation Projects - Waller County



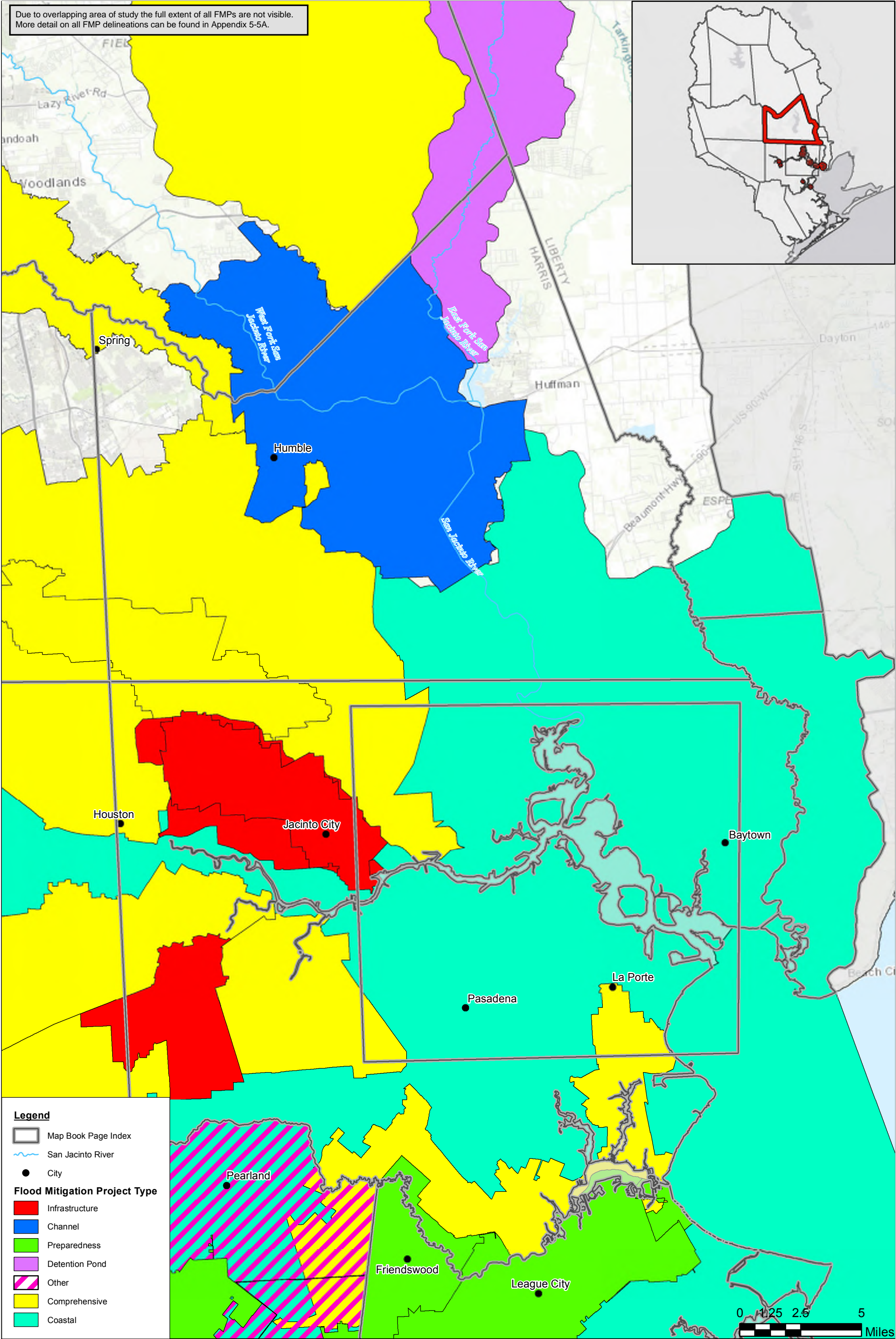
MAP  
17  
FIGURE  
8 of 17





Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert





San Jacinto Regional Flood Plan

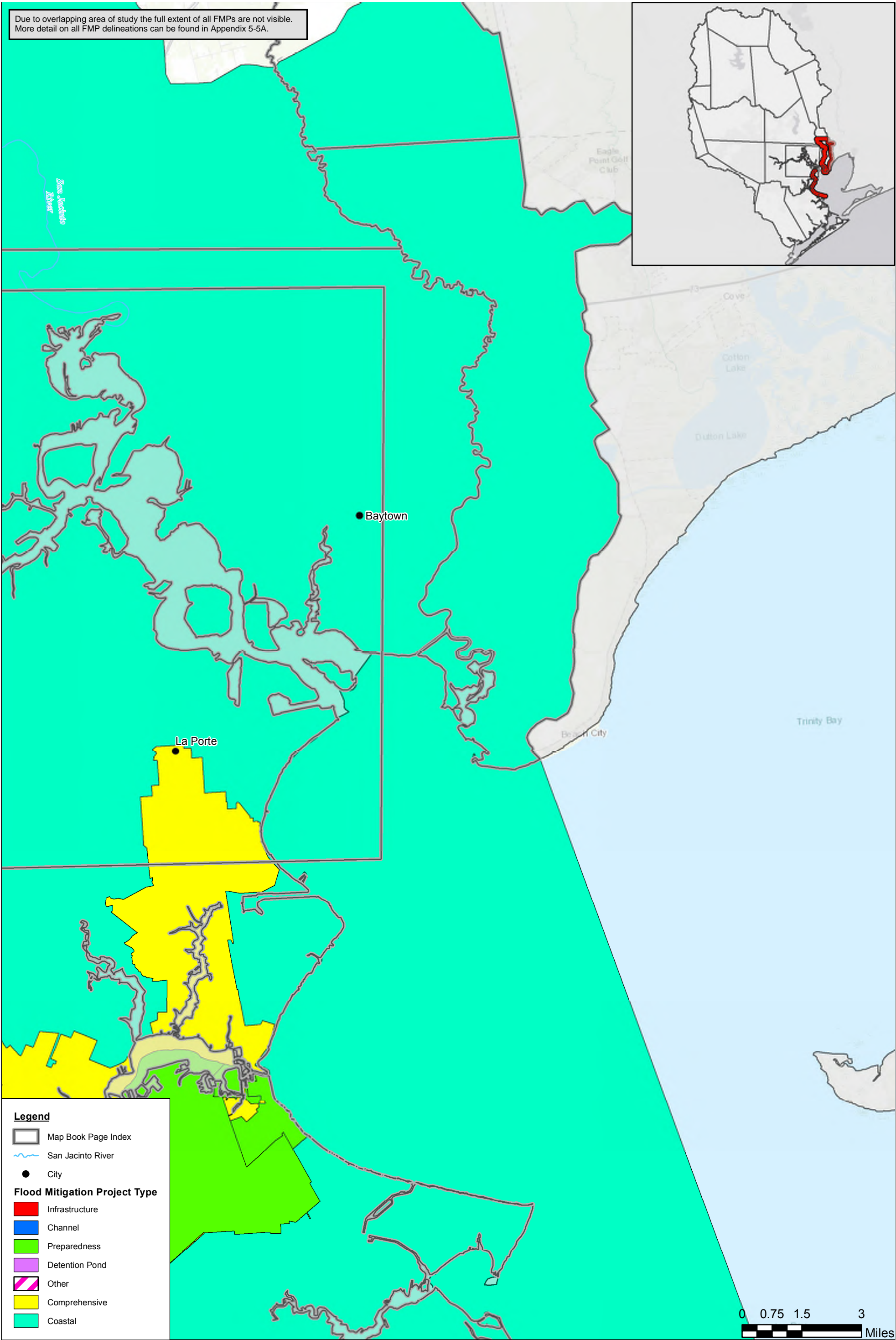
Potential Flood Mitigation Projects - NE Harris County



Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



Due to overlapping area of study the full extent of all FMPs are not visible. More detail on all FMP delineations can be found in Appendix 5-5A.



**Legend**

- Map Book Page Index
- San Jacinto River
- City

**Flood Mitigation Project Type**

- Infrastructure
- Channel
- Preparedness
- Detention Pond
- Other
- Comprehensive
- Coastal



# San Jacinto Regional Flood Plan

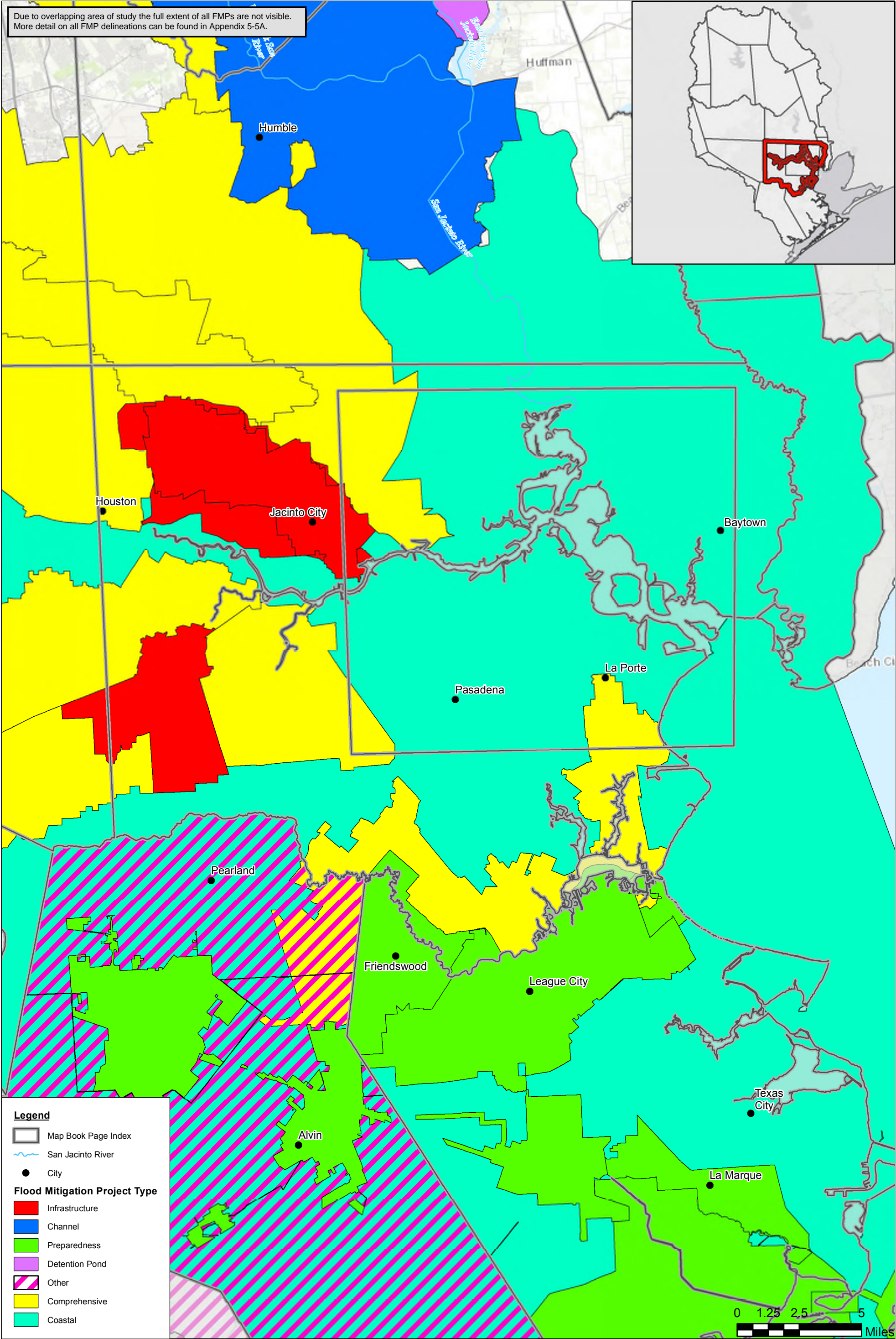
## Potential Flood Mitigation Projects - Chambers County



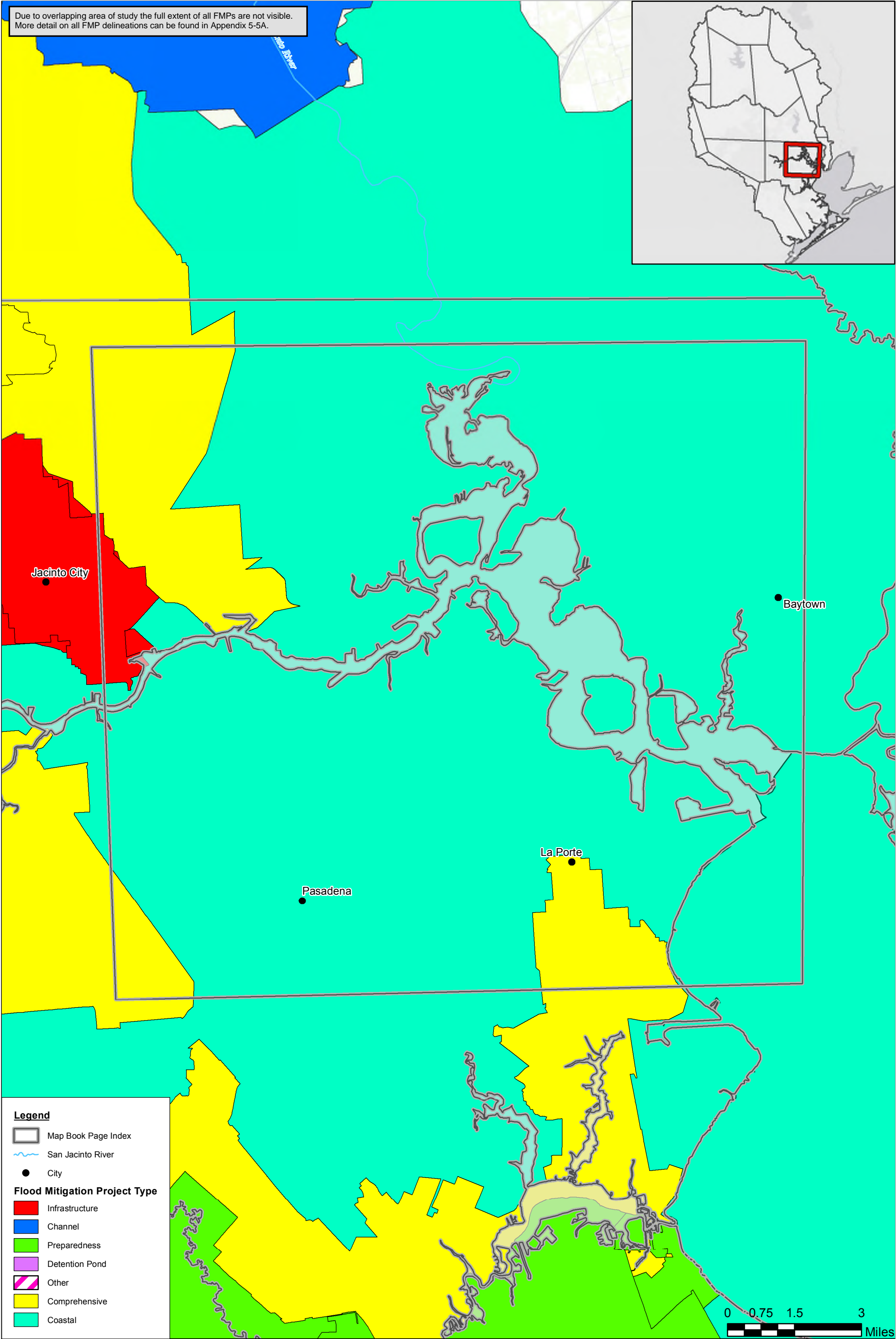
**MAP 17**  
**FIGURE 11 of 17**

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert

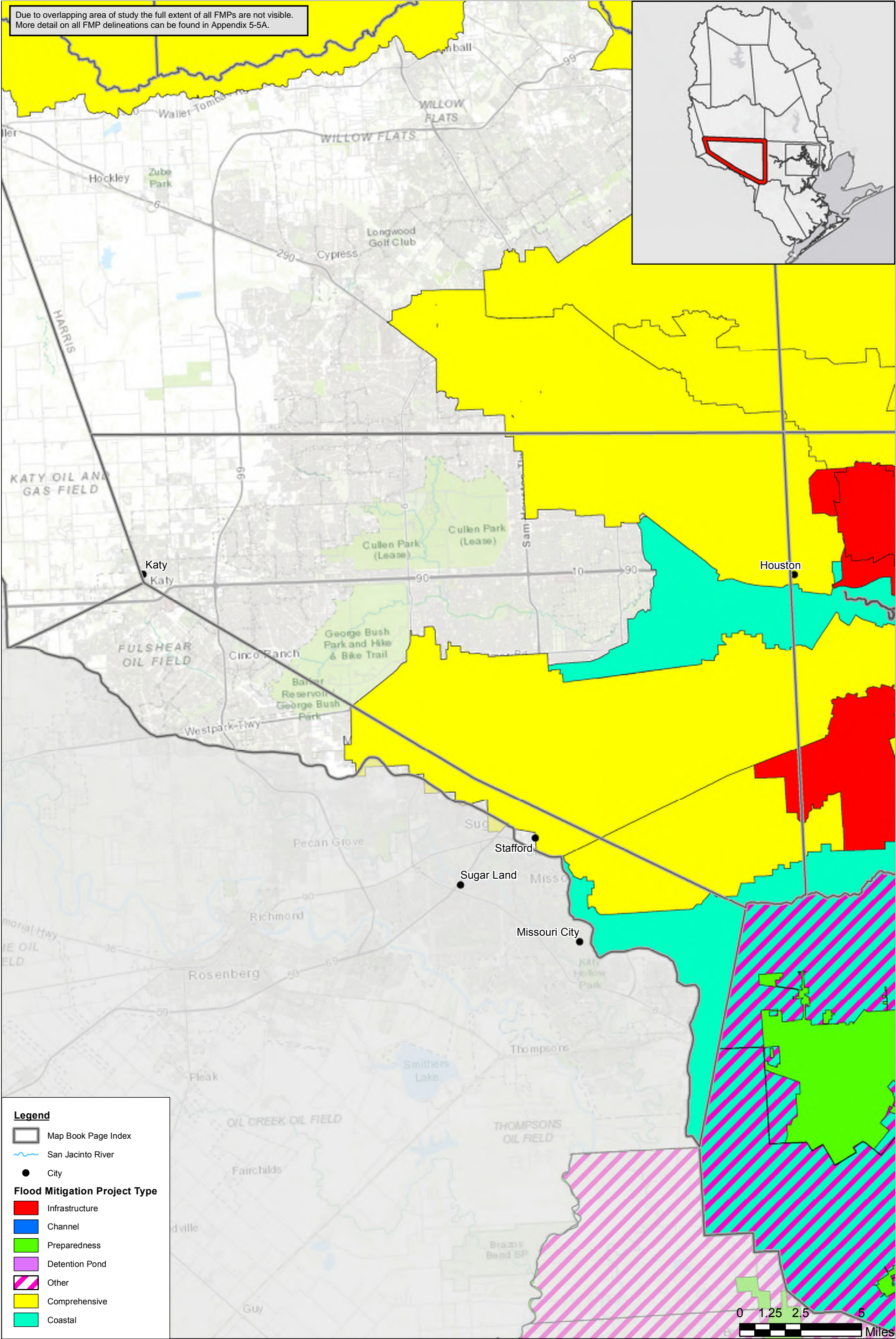












San Jacinto Regional Flood Plan

Potential Flood Mitigation Projects - SW Harris County

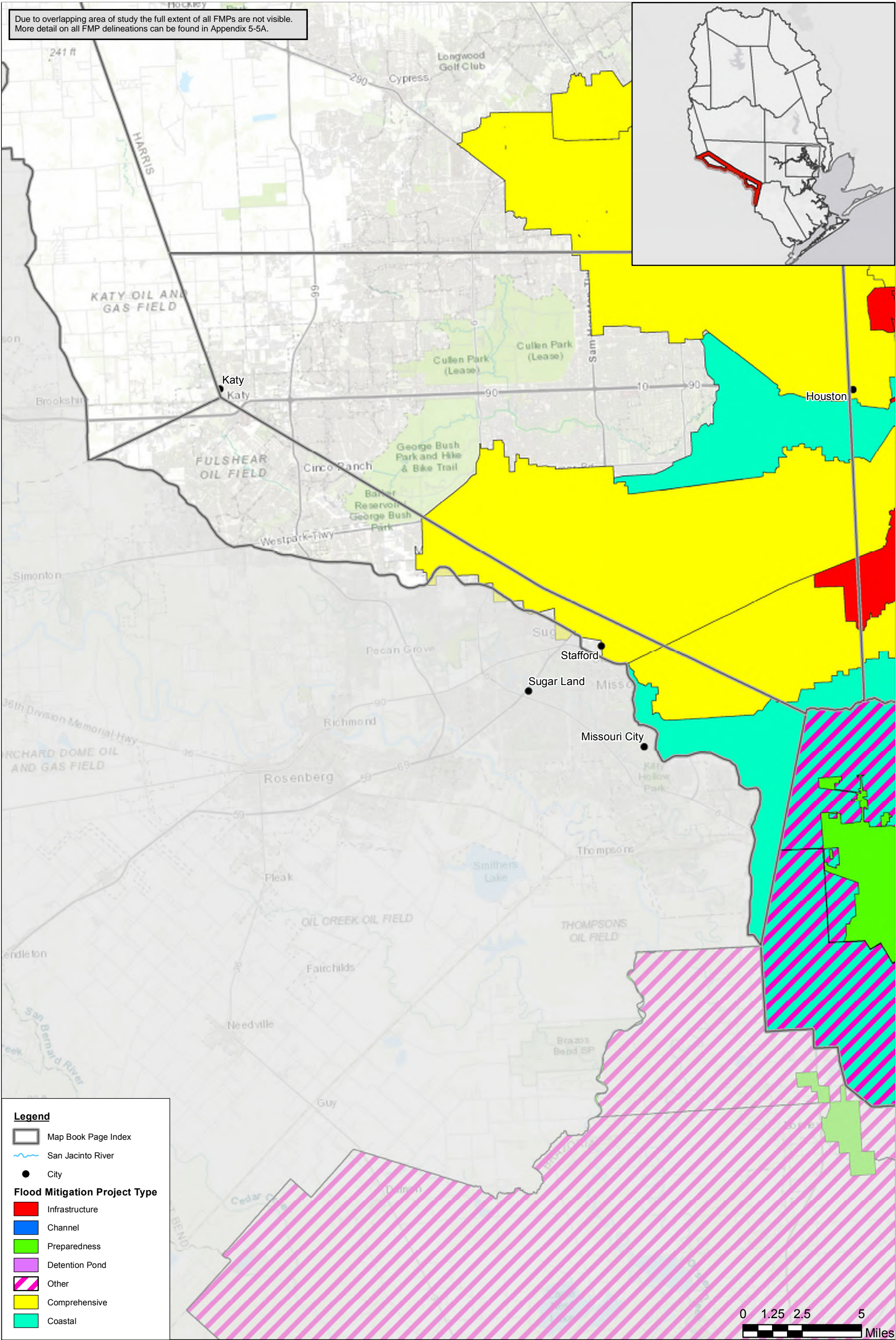


MAP 17  
FIGURE 14 of 17

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



Due to overlapping area of study the full extent of all FMPs are not visible. More detail on all FMP delineations can be found in Appendix 5-5A.



San Jacinto Regional Flood Plan

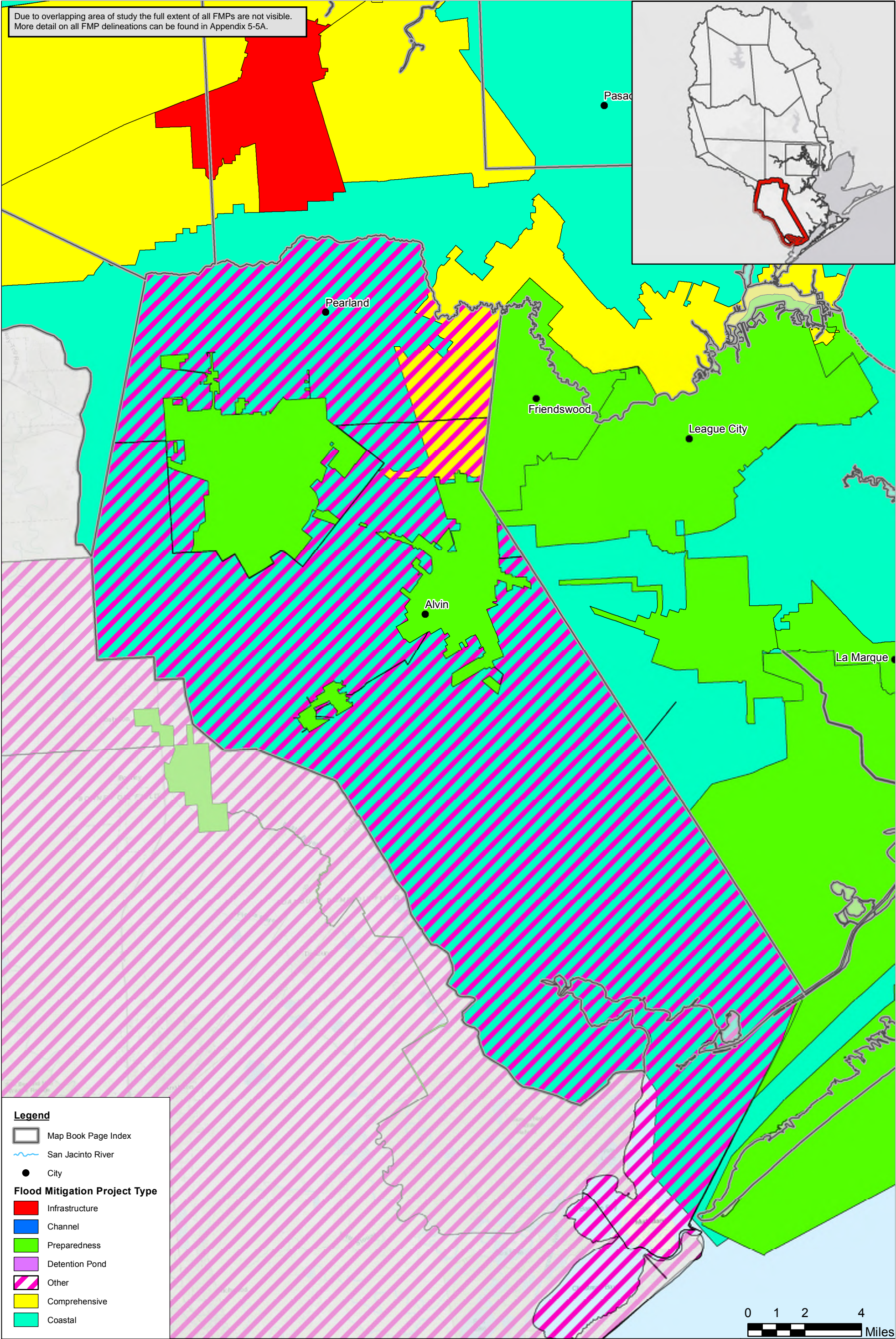
Potential Flood Mitigation Projects - Fort Bend County



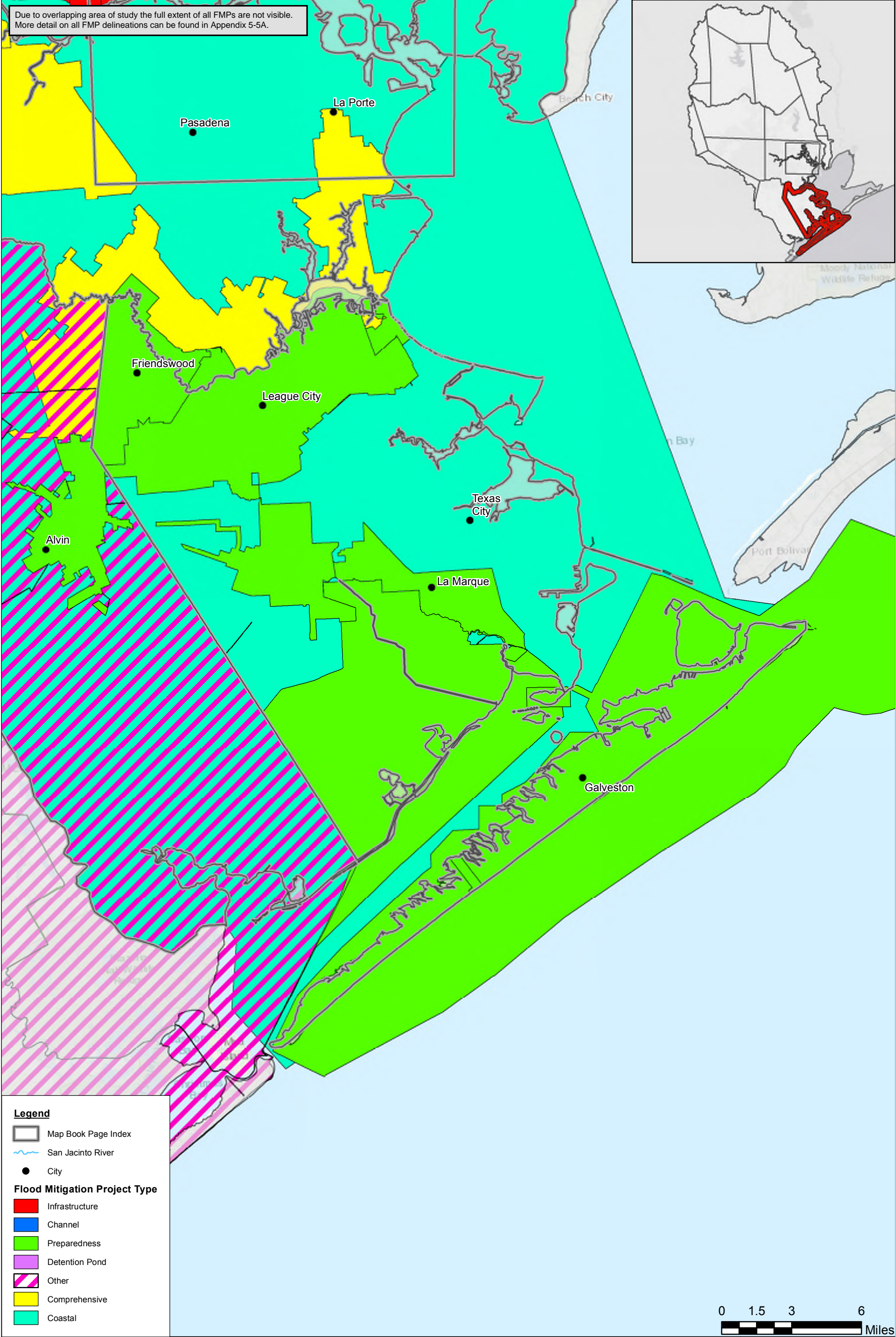
MAP 17  
FIGURE 15 of 17

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



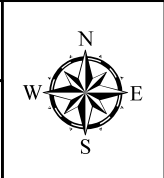






San Jacinto Regional Flood Plan

Potential Flood Mitigation Projects - Galveston County



**MAP 17**  
FIGURE 17 of 17

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert

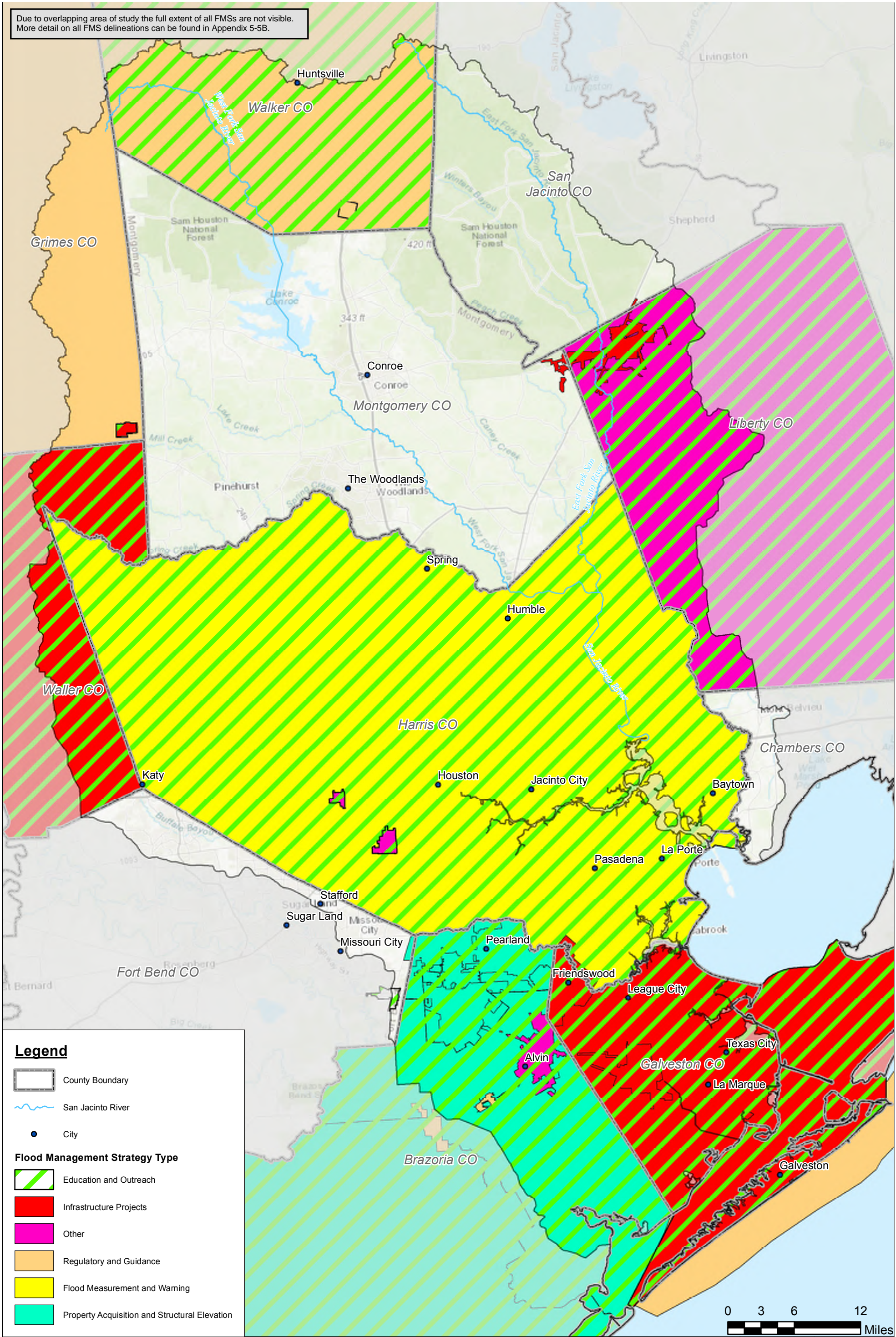
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**Appendix 4-3:**  
**Map 18 - Potential Flood Management Strategies**

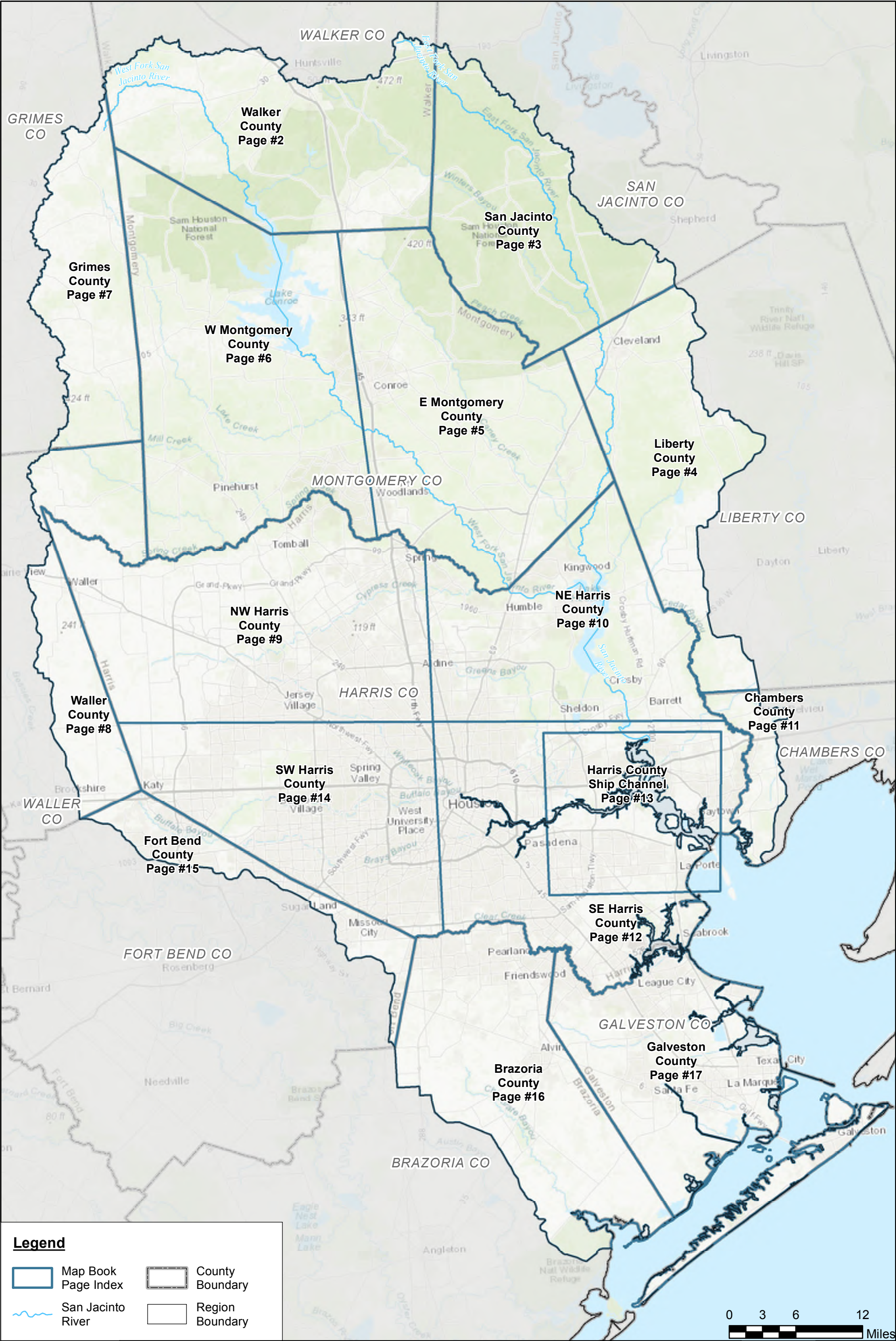
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Due to overlapping area of study the full extent of all FMSs are not visible.  
More detail on all FMS delineations can be found in Appendix 5-5B.

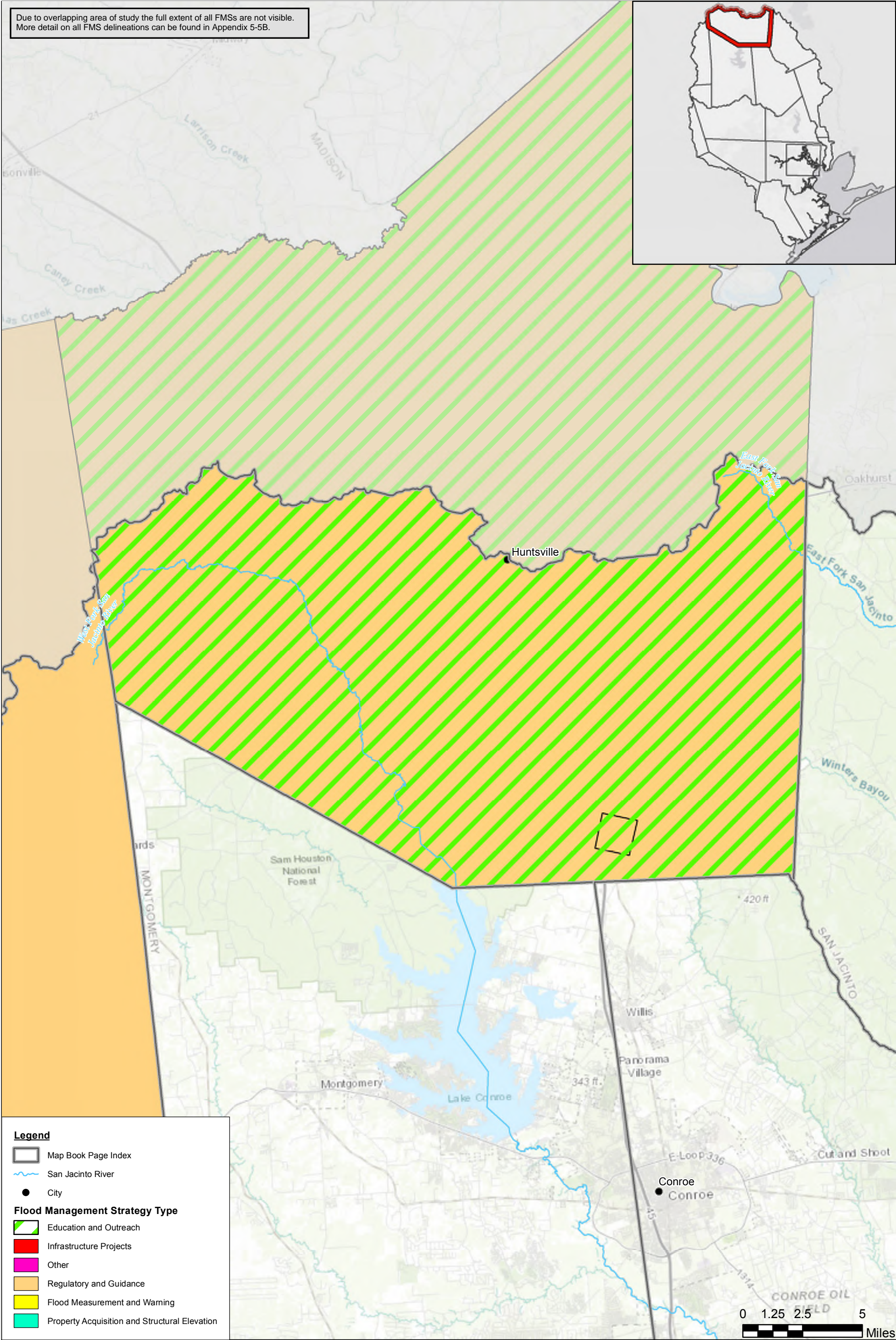
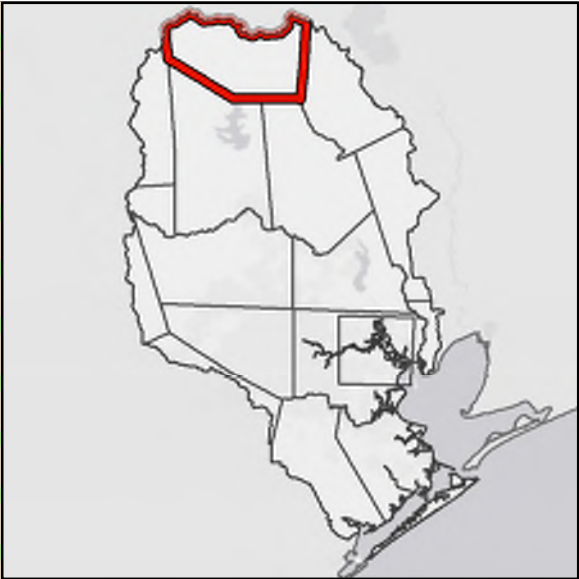








Due to overlapping area of study the full extent of all FMSs are not visible.  
More detail on all FMS delineations can be found in Appendix 5-5B.



**Legend**

- Map Book Page Index
- San Jacinto River
- City
- Flood Management Strategy Type**
  - Education and Outreach
  - Infrastructure Projects
  - Other
  - Regulatory and Guidance
  - Flood Measurement and Warning
  - Property Acquisition and Structural Elevation



San Jacinto Regional Flood Plan

Potential Flood Management Strategies - Walker County

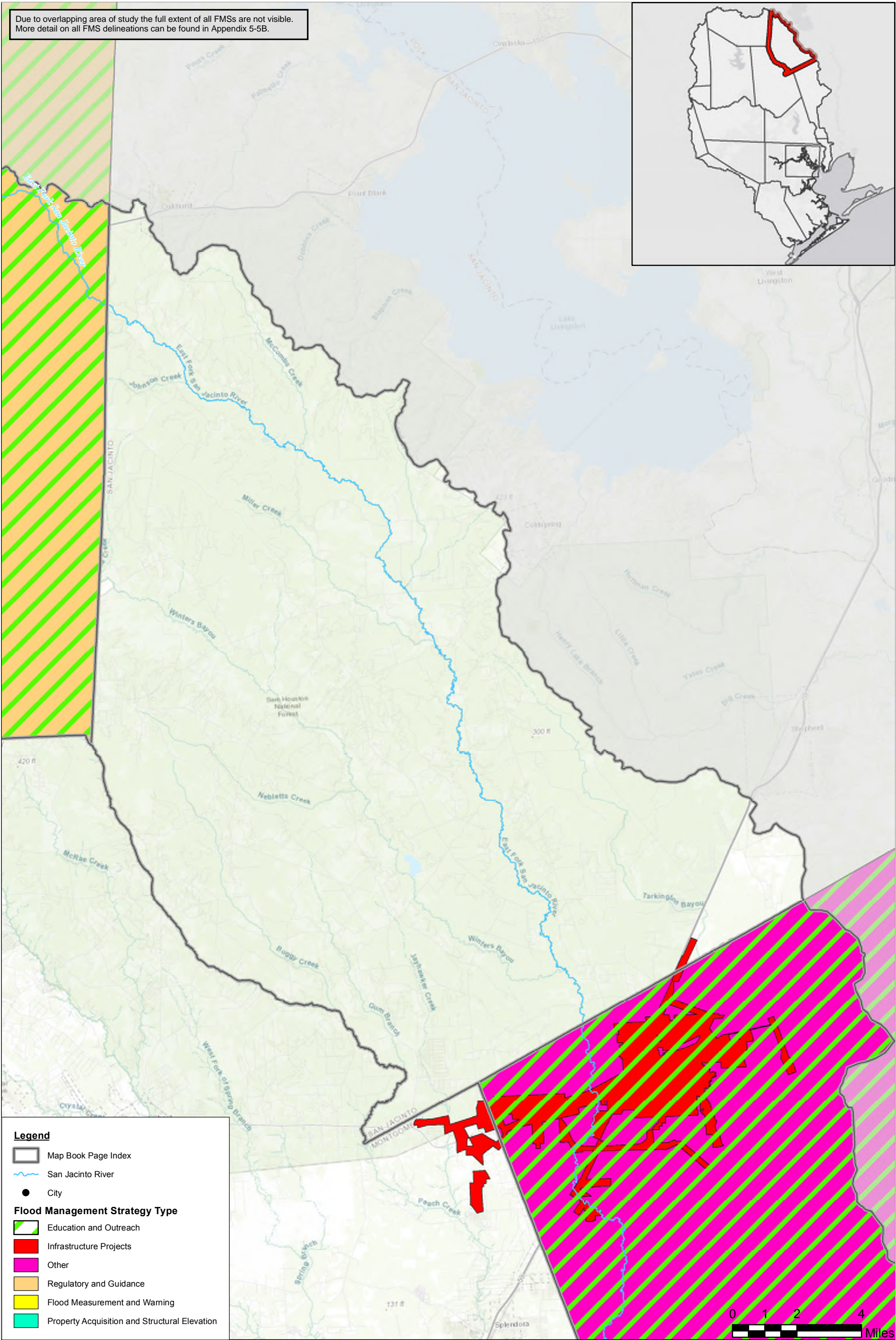


**MAP 18**  
FIGURE 2 of 17

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



Due to overlapping area of study the full extent of all FMSs are not visible.  
More detail on all FMS delineations can be found in Appendix 5-5B.



# San Jacinto Regional Flood Plan

## Potential Flood Management Strategies - San Jacinto County

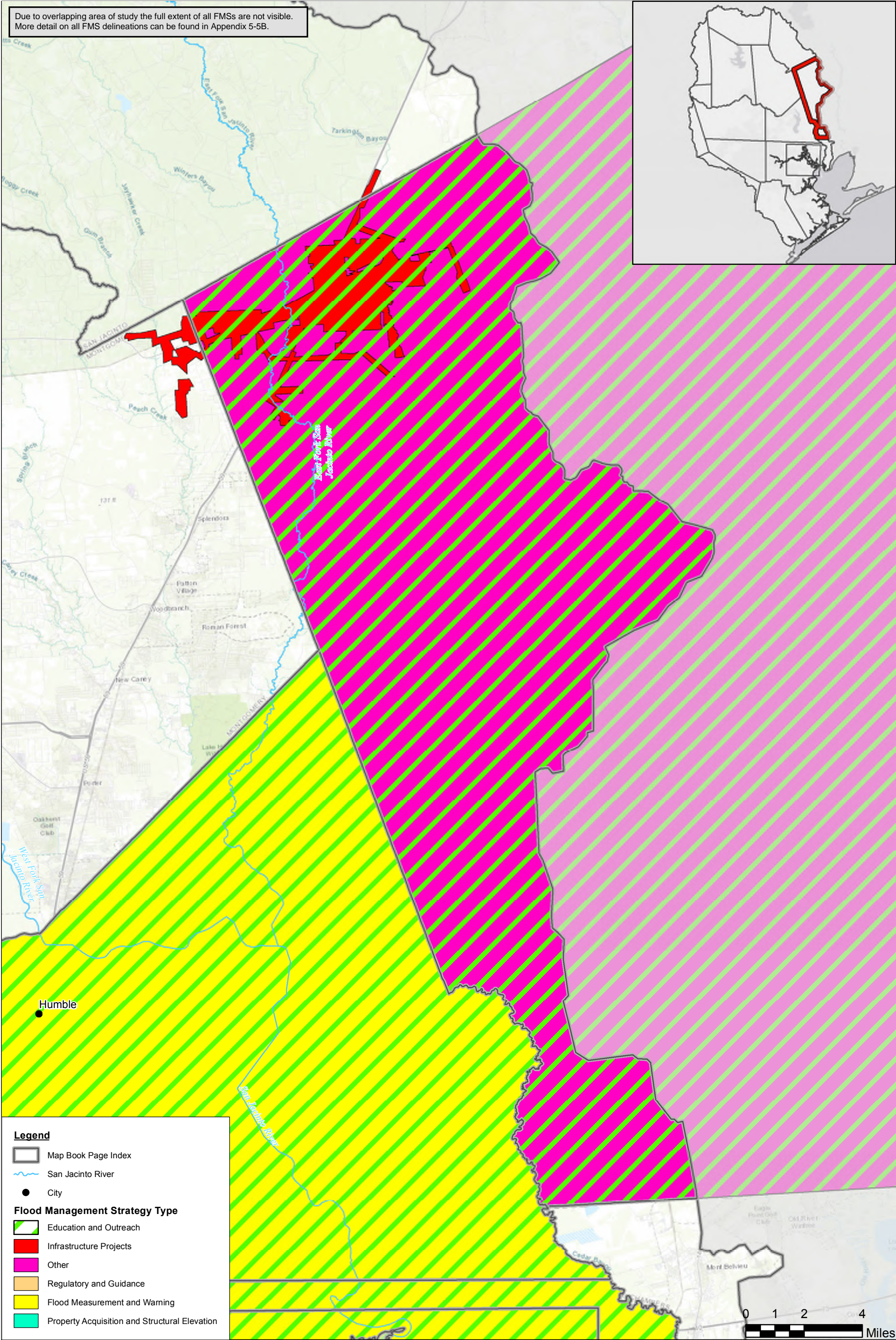


**MAP 18**  
**FIGURE 3 of 17**

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert

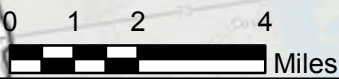


Due to overlapping area of study the full extent of all FMSs are not visible. More detail on all FMS delineations can be found in Appendix 5-5B.



**Legend**

- Map Book Page Index
- San Jacinto River
- City
- Flood Management Strategy Type**
  - Education and Outreach
  - Infrastructure Projects
  - Other
  - Regulatory and Guidance
  - Flood Measurement and Warning
  - Property Acquisition and Structural Elevation



San Jacinto Regional Flood Plan

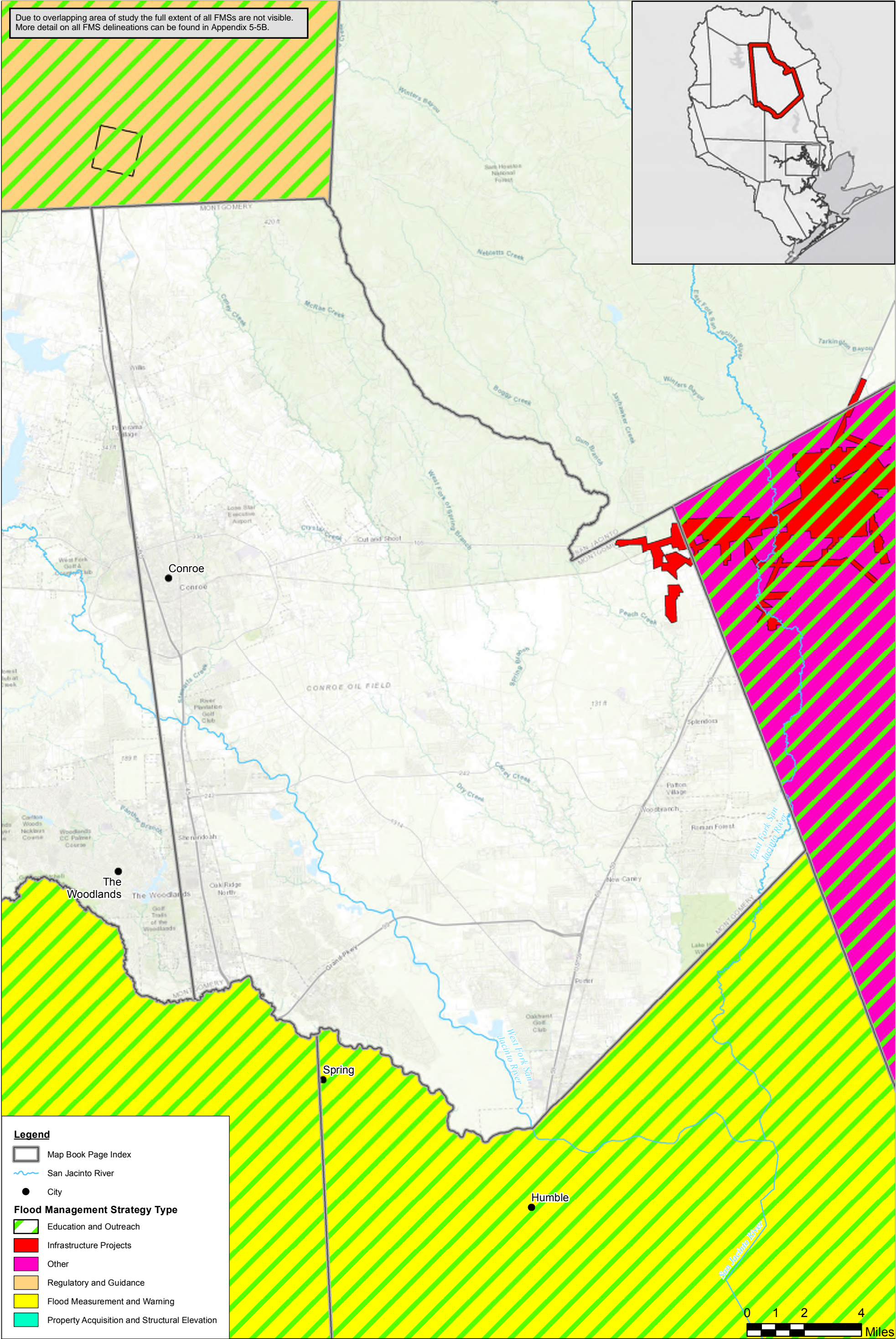
Potential Flood Management Strategies - Liberty County



**MAP 18**  
FIGURE 4 of 17

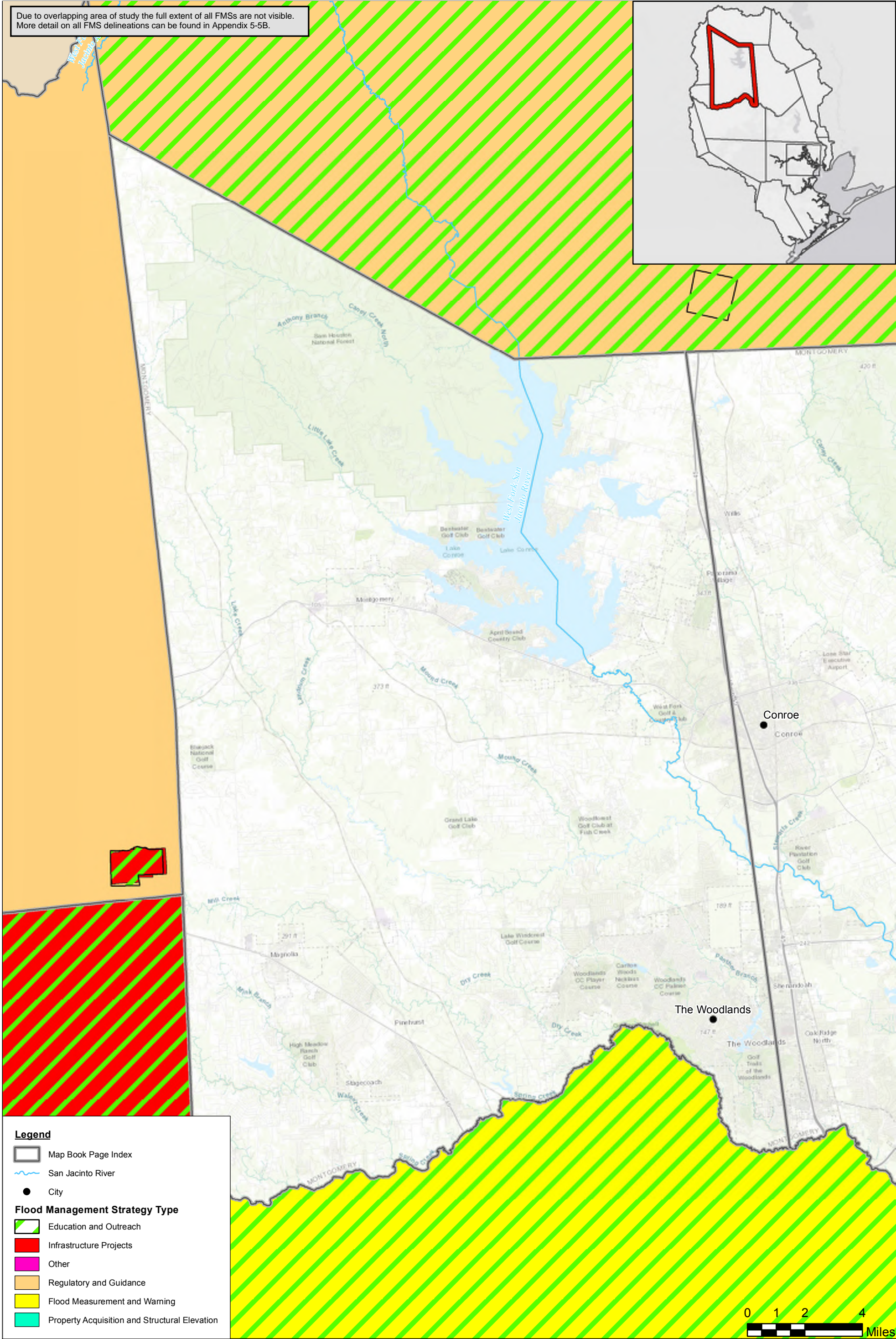
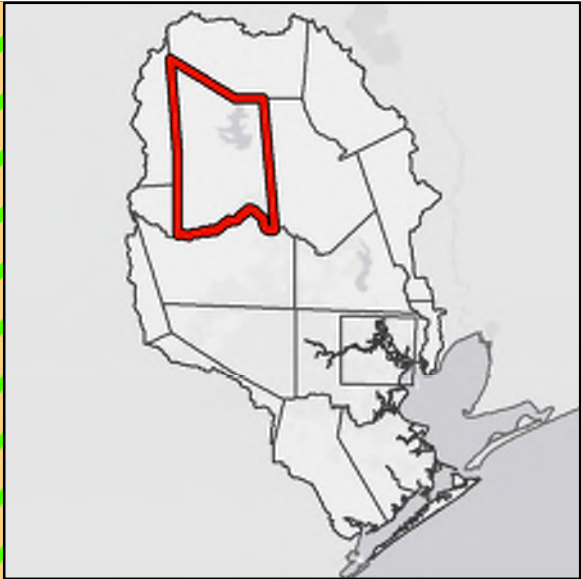
Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert







Due to overlapping area of study the full extent of all FMSs are not visible.  
More detail on all FMS delineations can be found in Appendix 5-5B.



**Legend**

Map Book Page Index

San Jacinto River

City

**Flood Management Strategy Type**

- Education and Outreach
- Infrastructure Projects
- Other
- Regulatory and Guidance
- Flood Measurement and Warning
- Property Acquisition and Structural Elevation



# San Jacinto Regional Flood Plan

## Potential Flood Management Strategies - W Montgomery County

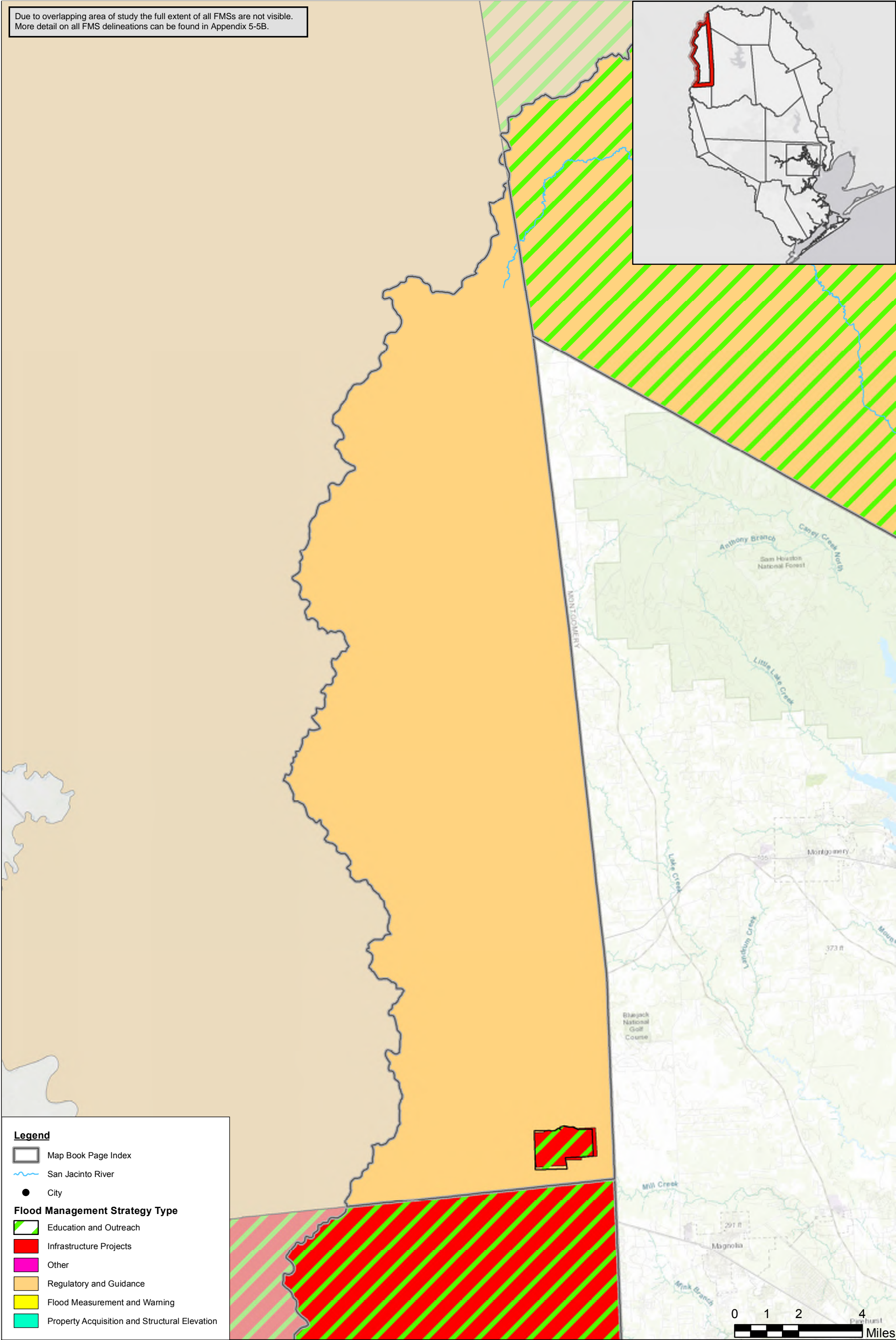
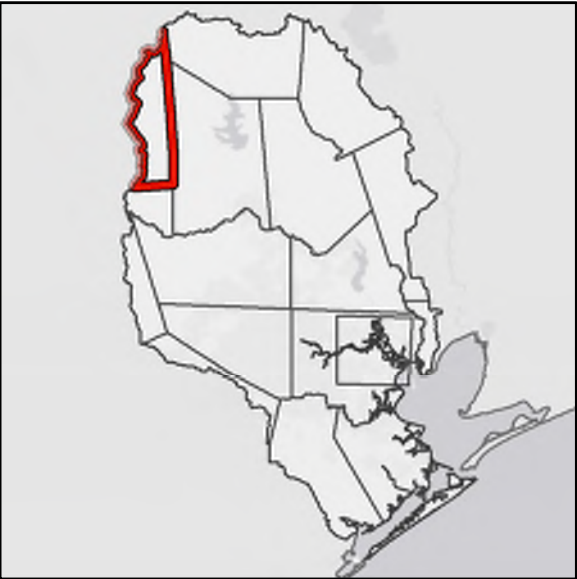


**MAP 18**  
FIGURE 6 of 17

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



Due to overlapping area of study the full extent of all FMSs are not visible.  
More detail on all FMS delineations can be found in Appendix 5-5B.



- Legend**
- Map Book Page Index
  - San Jacinto River
  - City
- Flood Management Strategy Type**
- Education and Outreach
  - Infrastructure Projects
  - Other
  - Regulatory and Guidance
  - Flood Measurement and Warning
  - Property Acquisition and Structural Elevation



San Jacinto Regional Flood Plan

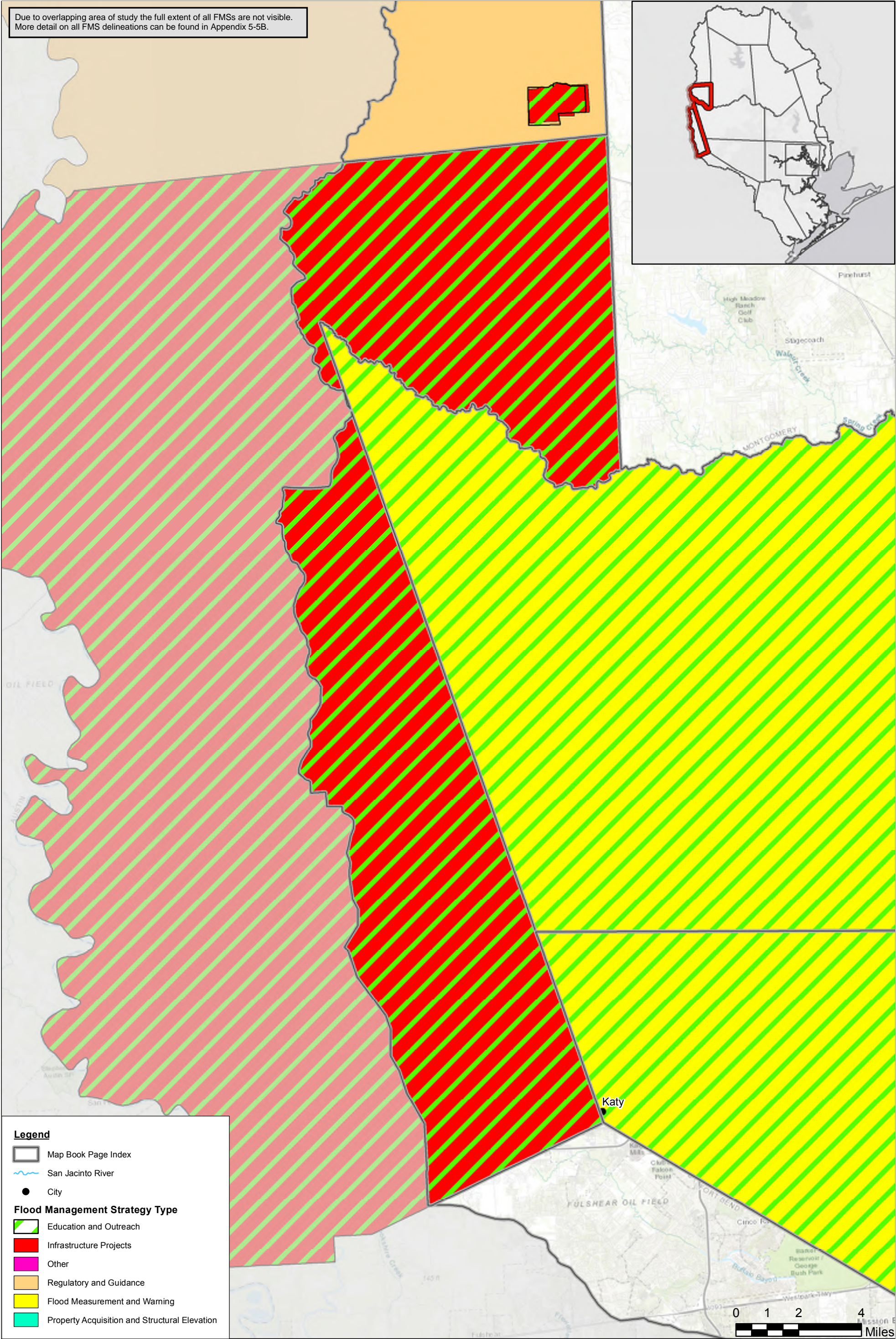
Potential Flood Management Strategies - Grimes County



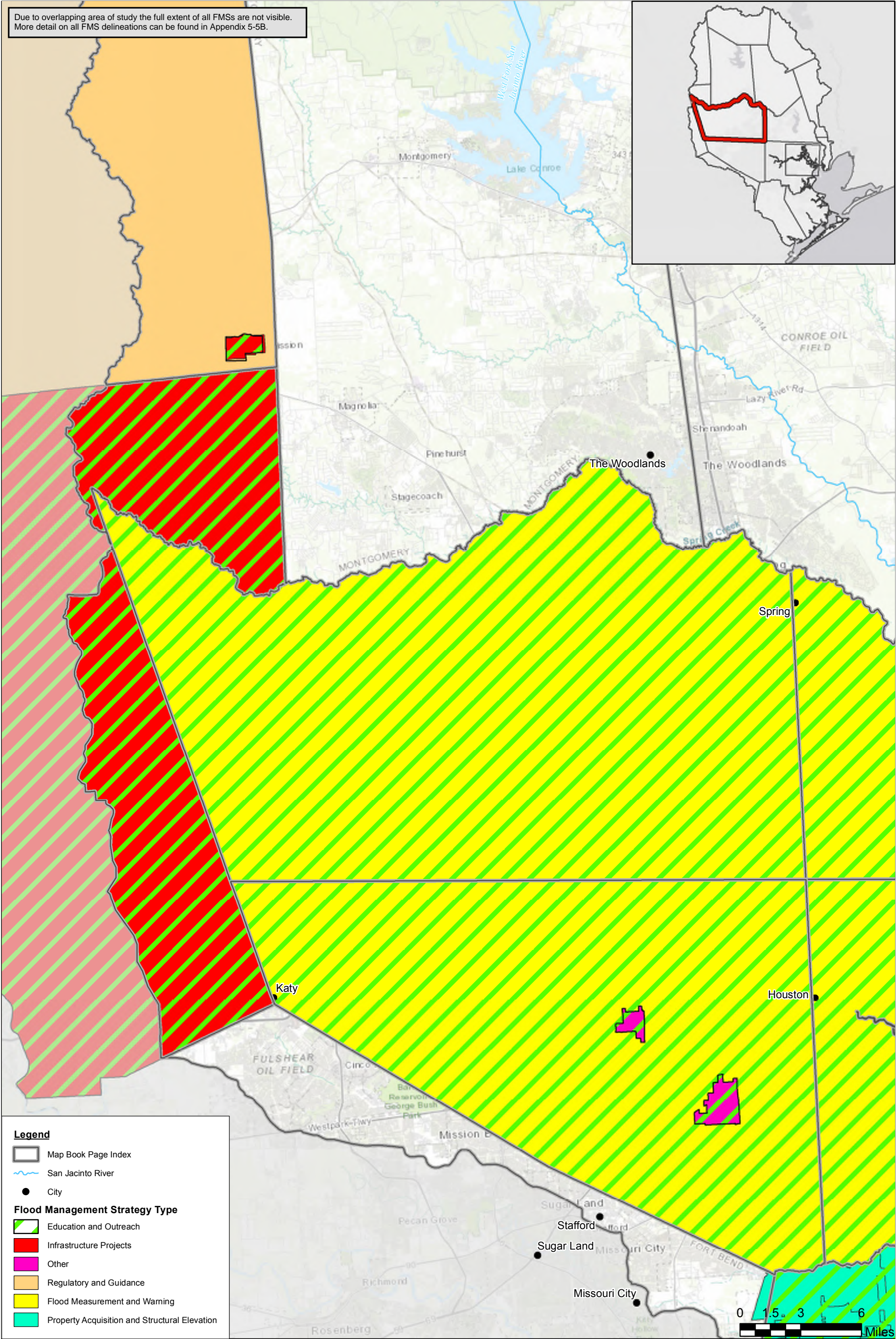
**MAP 18**  
FIGURE 7 of 17

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert

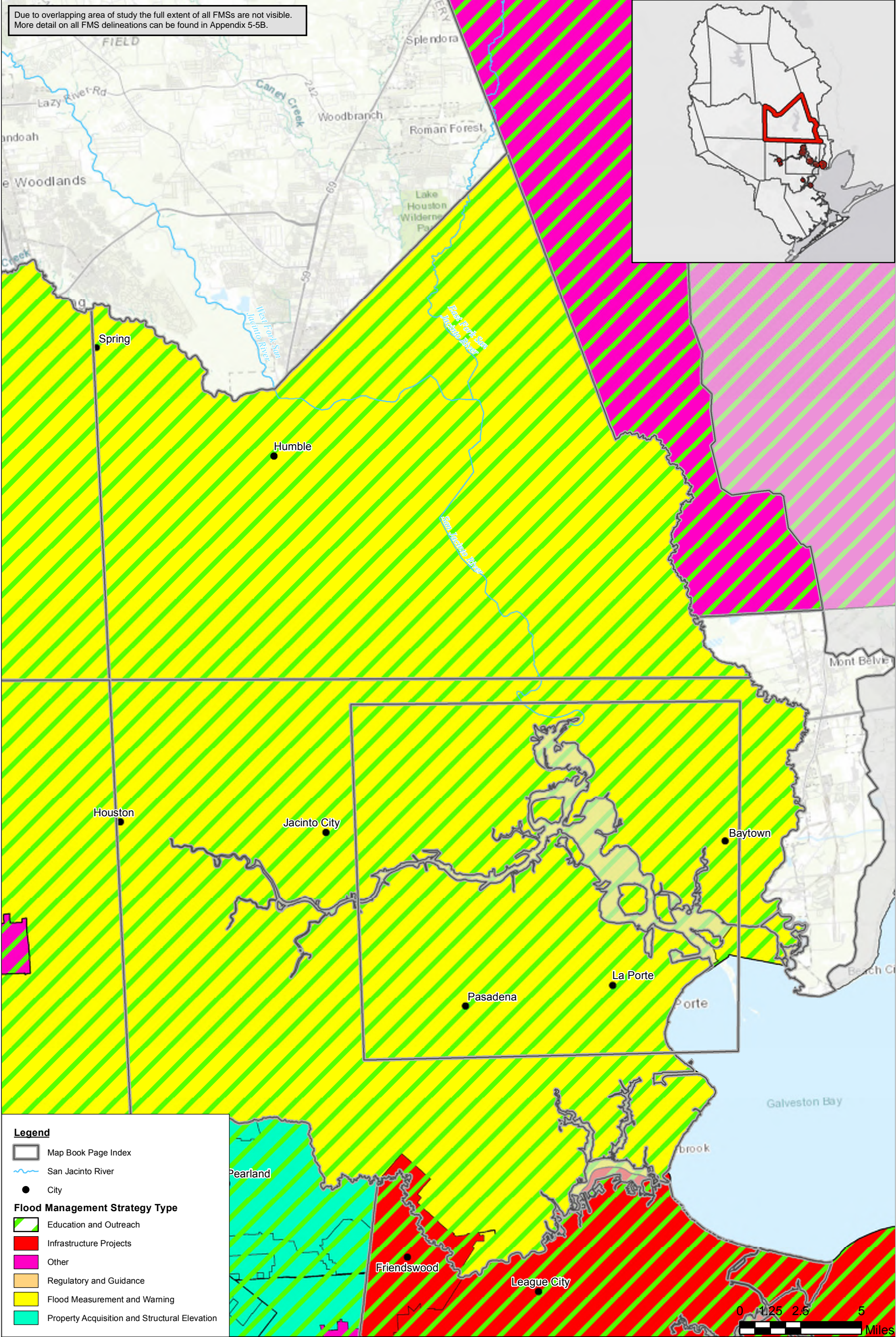








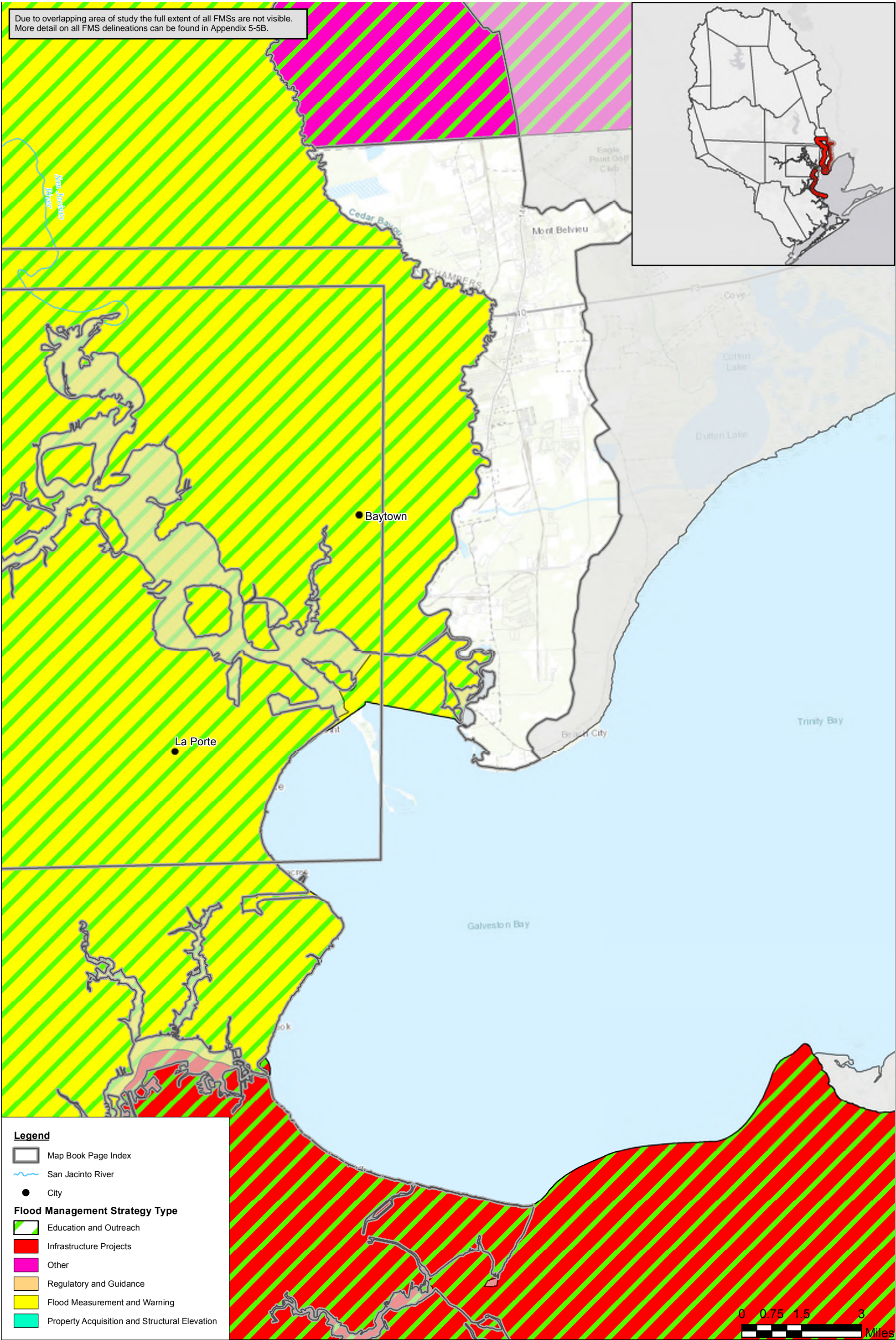




Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



Due to overlapping area of study the full extent of all FMSs are not visible. More detail on all FMS delineations can be found in Appendix 5-5B.



# San Jacinto Regional Flood Plan

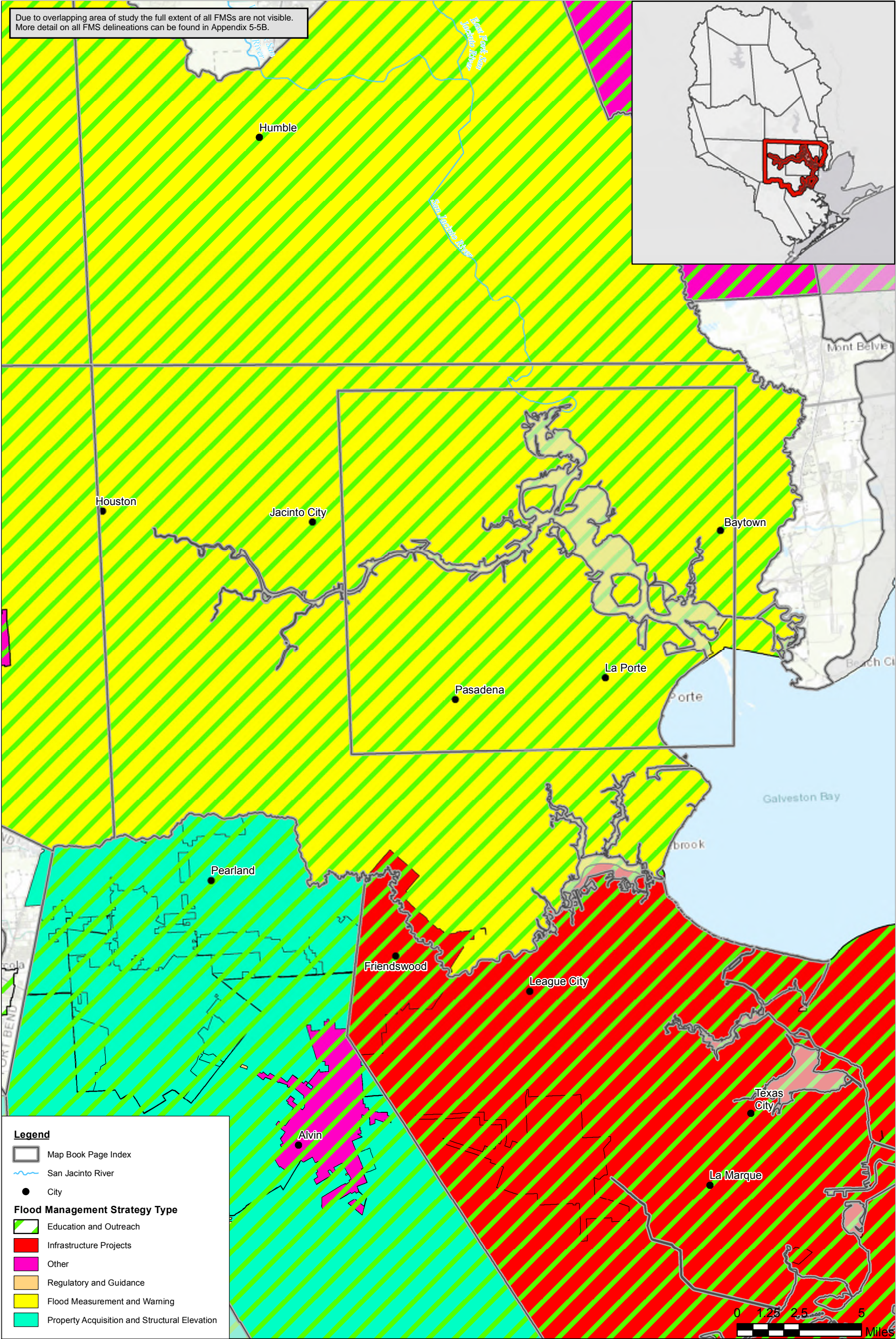
## Potential Flood Management Strategies - Chambers County



**MAP 18**  
FIGURE 11 of 17

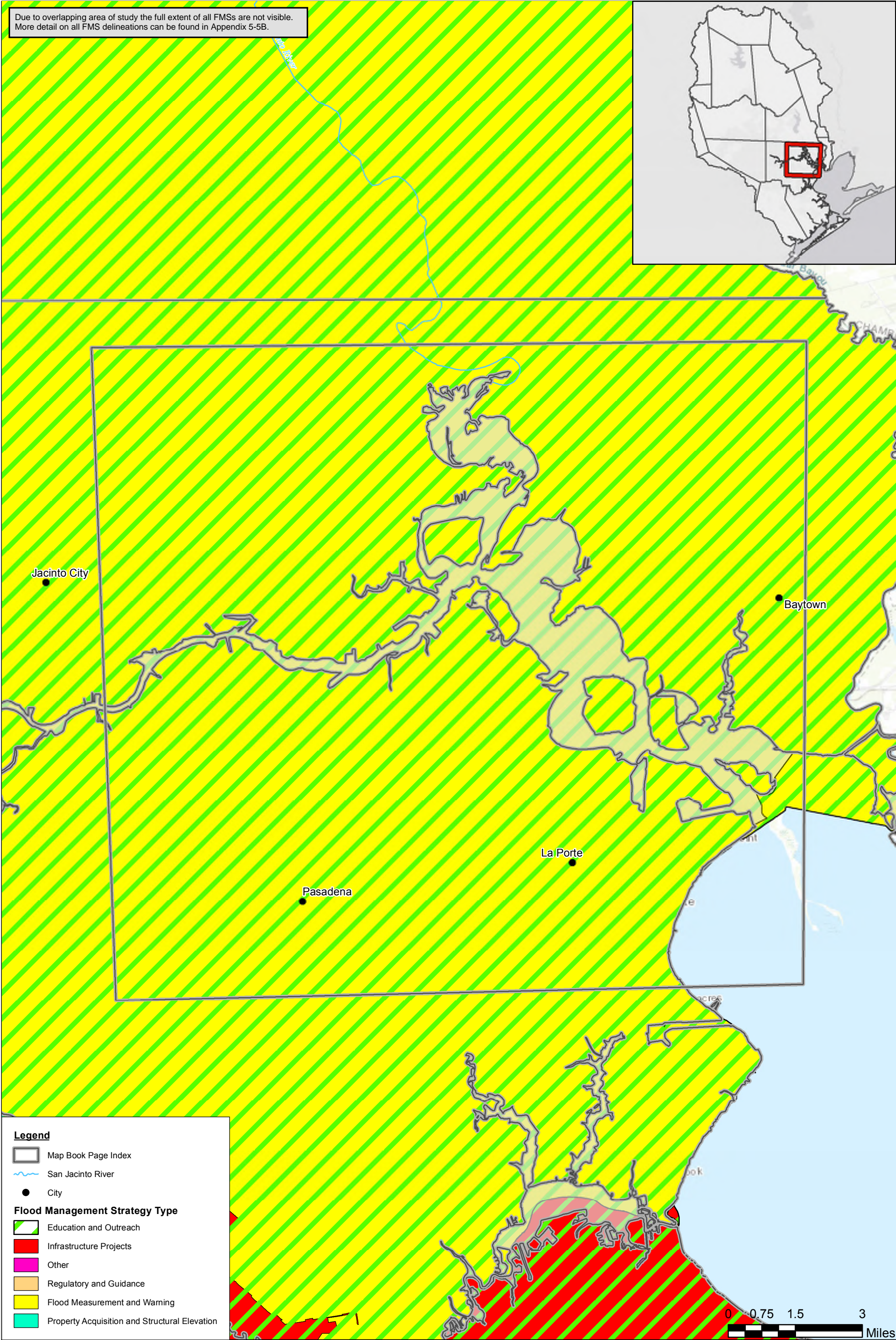
Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert







Due to overlapping area of study the full extent of all FMSs are not visible. More detail on all FMS delineations can be found in Appendix 5-5B.



**Legend**

- Map Book Page Index
- San Jacinto River
- City

**Flood Management Strategy Type**

- Education and Outreach
- Infrastructure Projects
- Other
- Regulatory and Guidance
- Flood Measurement and Warning
- Property Acquisition and Structural Elevation



San Jacinto Regional Flood Plan

Potential Flood Management Strategies - Harris County Ship Channel

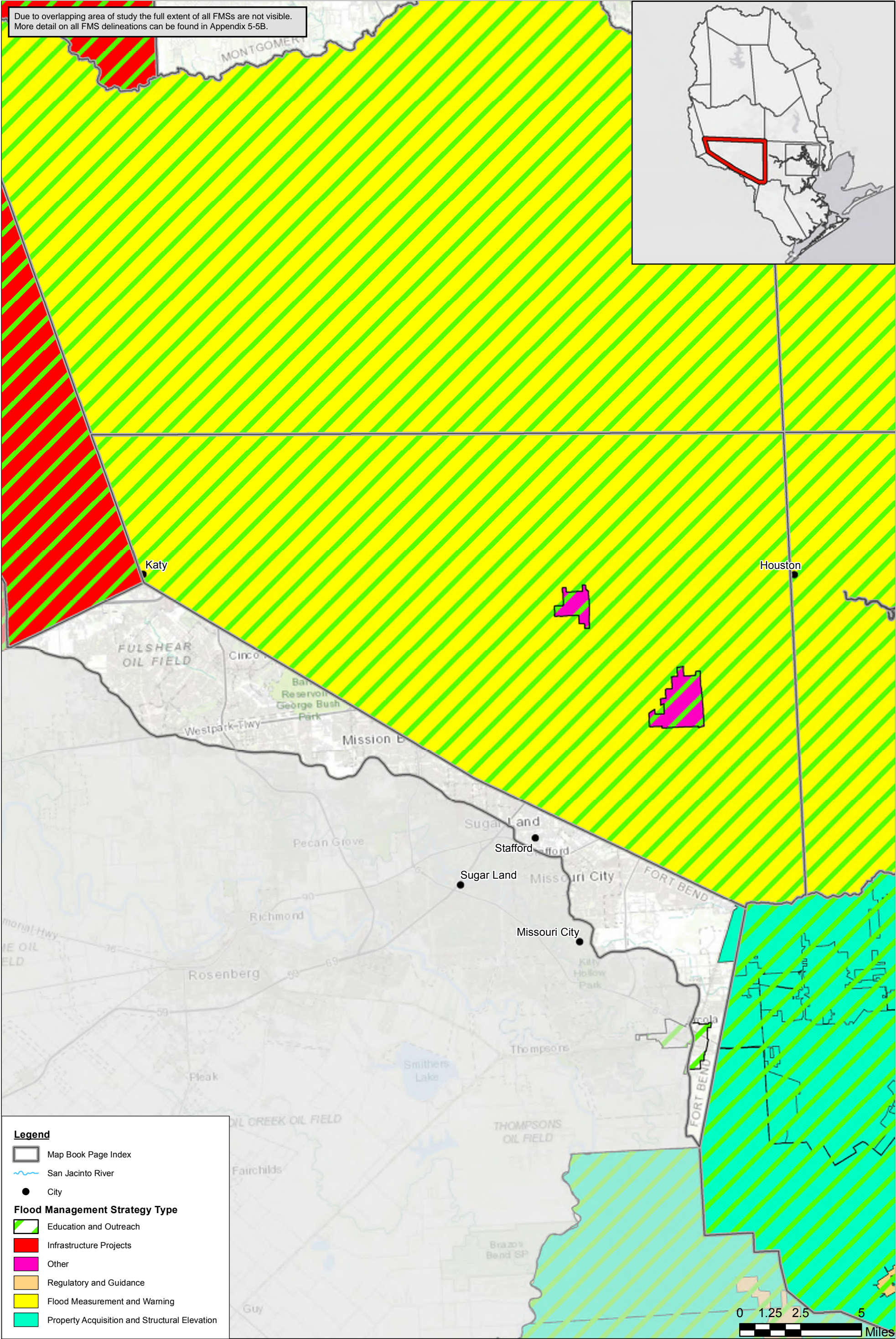


**MAP 18**

FIGURE 13 of 17

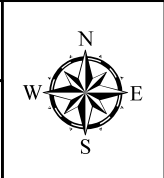
Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert





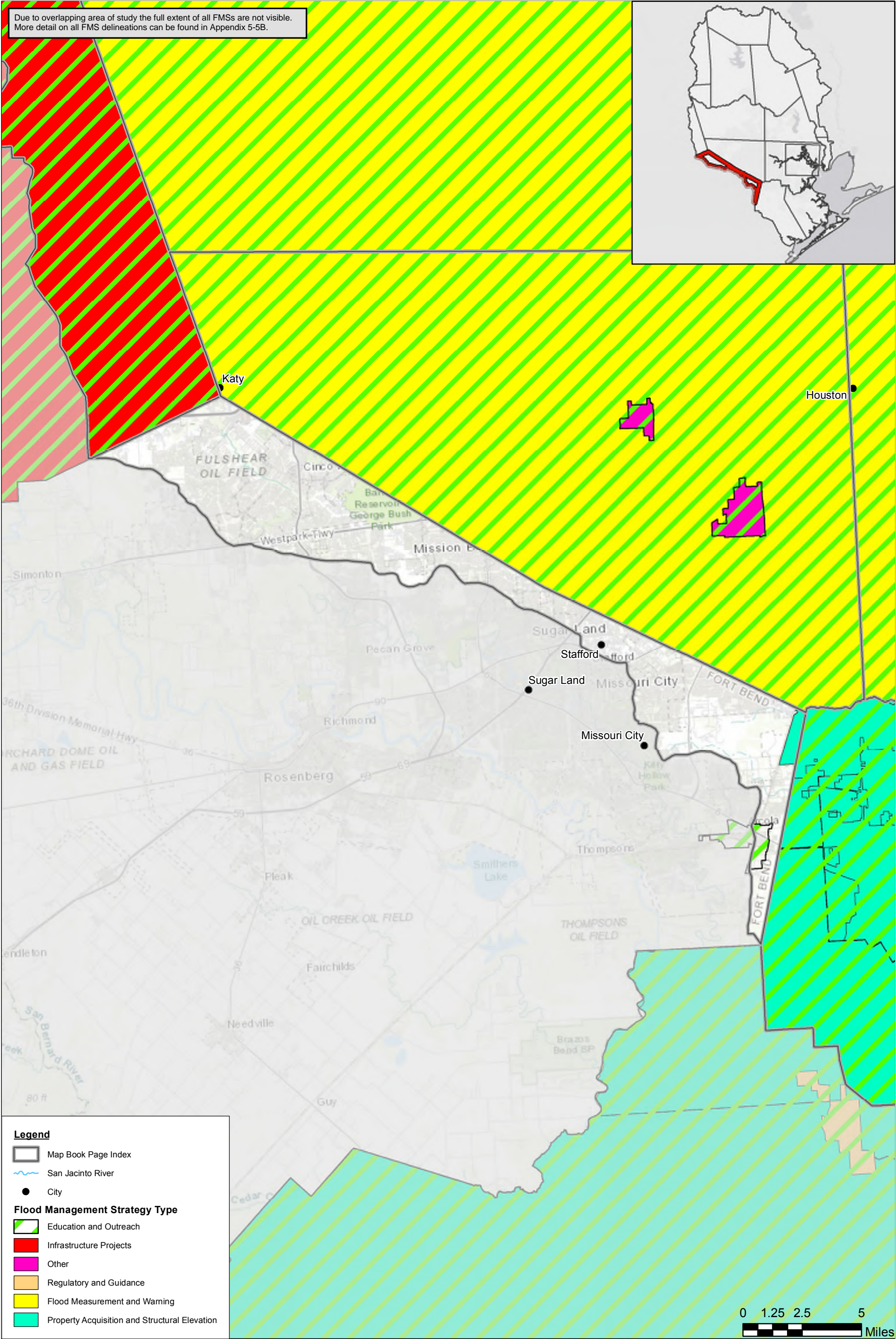
San Jacinto Regional Flood Plan

Potential Flood Management Strategies - SW Harris County



**MAP 18**  
FIGURE 14 of 17





San Jacinto Regional Flood Plan

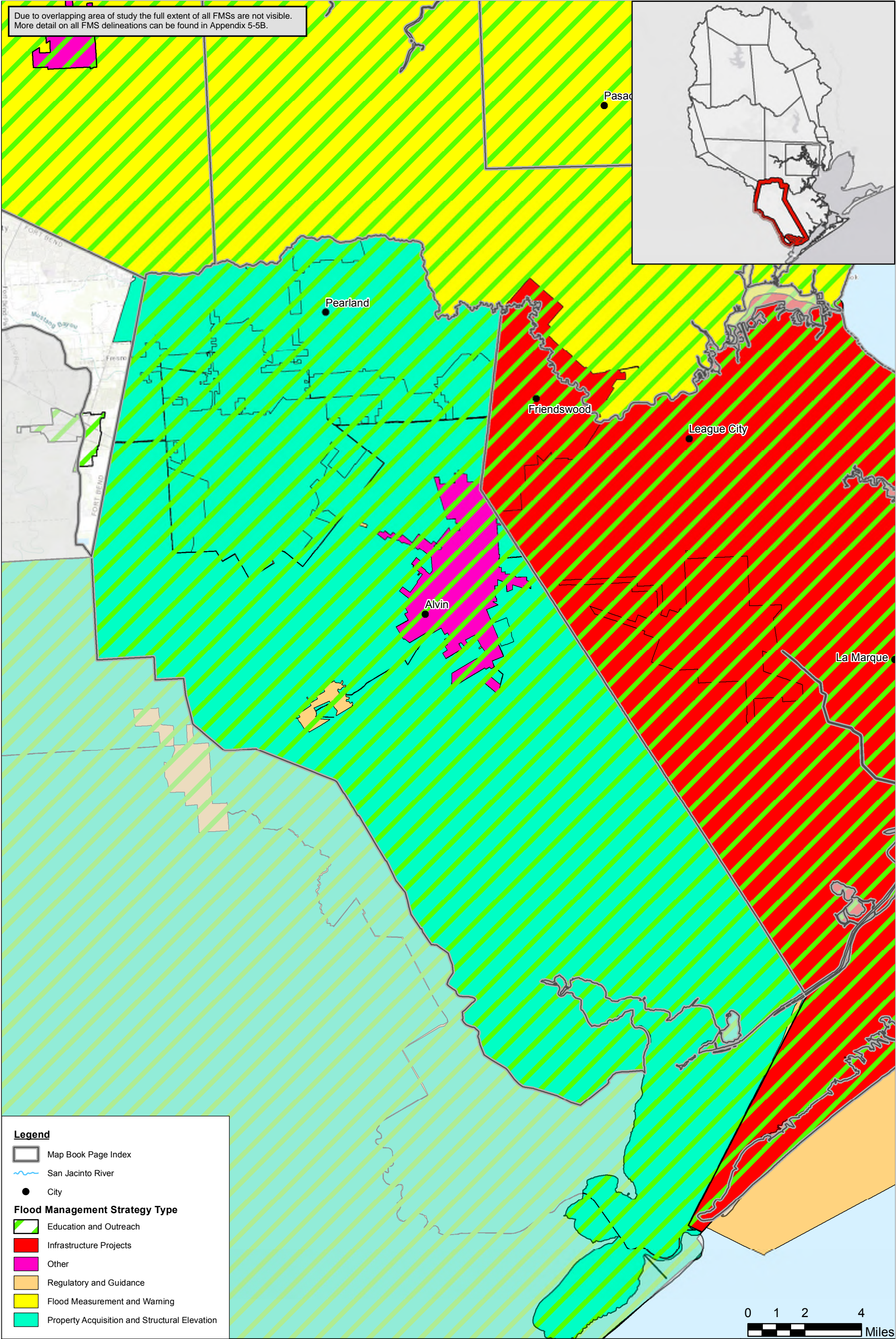
Potential Flood Management Strategies - Fort Bend County



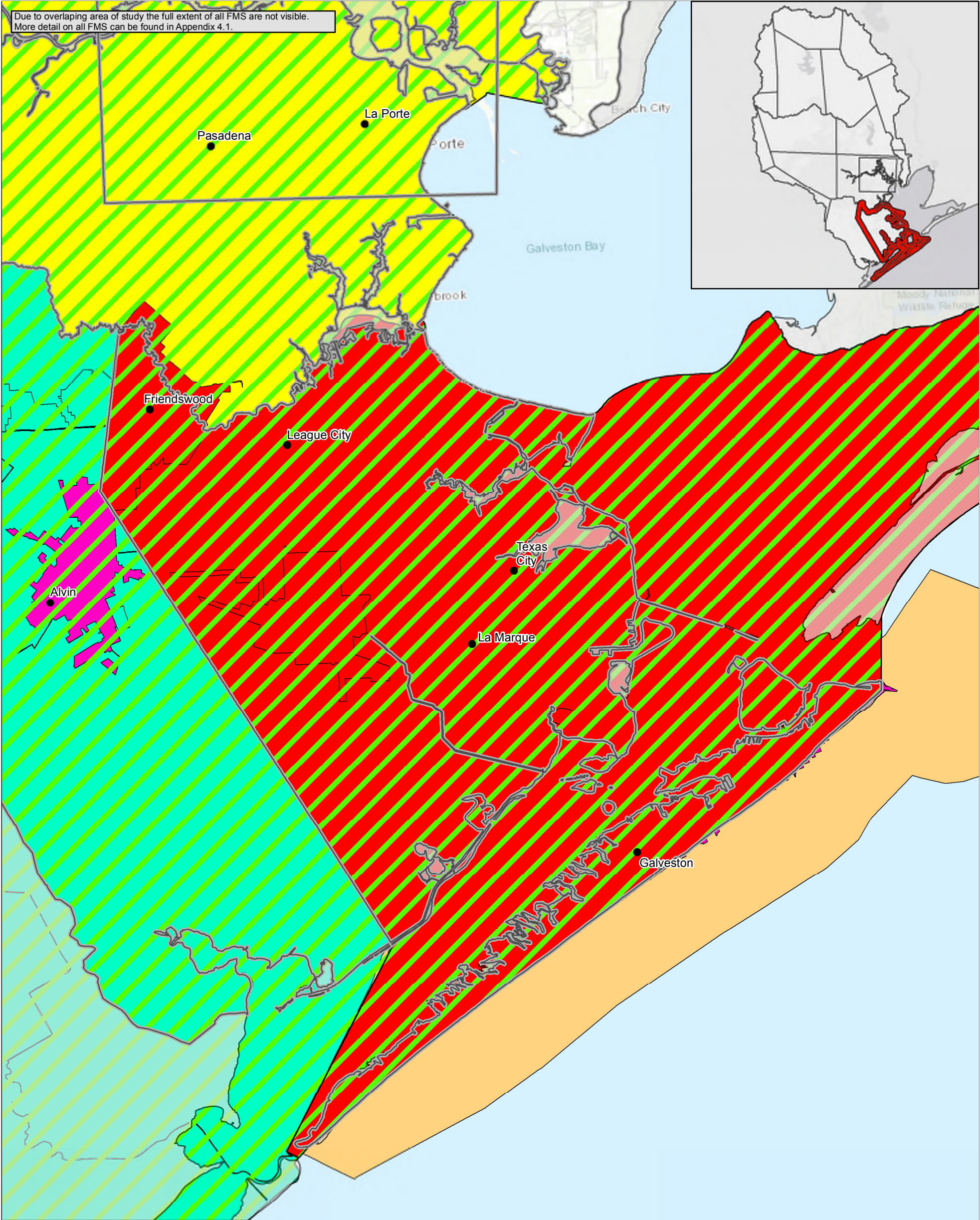
**MAP 18**  
FIGURE 15 of 17

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert









**Legend**

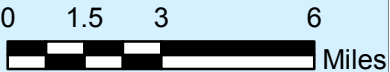
Map Book Page Index

San Jacinto River

City

**Flood Management Strategy Type**

- Education and Outreach
- Infrastructure Projects
- Other
- Regulatory and Guidance
- Flood Measurement and Warning
- Property Acquisition and Structural Elevation



San Jacinto Regional Flood Plan

Potential Flood Management Strategies - Galveston County



**MAP 18**

FIGURE 17 of 17

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



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**Appendix 4-4:**  
**Table 12 - Potential FMEs**

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Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000001	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.	06000015	Brazoria	12040204	120402040400	06000109	Project Planning	25.088289	Urban/Local	City of Alvin	Brazoria, Galveston, West Brazoria County Drainage District, Alvin	N
061000002	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.	06000015	Brazoria	12040204	120402040400	06000109	Project Planning	25.088289	Urban/Local	City of Alvin	Brazoria, Galveston, West Brazoria County Drainage District, Alvin	N
061000003	City of Arcola Regional Drainage Improvements	Further study of proposed flood risk reduction project that includes various drainage improvement alternatives.	06000015	Fort Bend	12040204	120402040400	06000109	Project Planning	2.598059	Urban/Local	City of Arcola	Fort Bend, Arcola	N
061000004	City of Stafford Drainage Improvements	Further study of proposed flood risk reduction project that includes drainage improvements to the Stafford Oaks neighborhood.	06000015	Fort Bend	-	-	-	Project Planning	0.482396	Urban/Local	City of Stafford	Fort Bend, Stafford	N
061000005	Missouri City Estates Drainage Improvements	Further study of proposed flood risk reduction project that includes drainage improvements to Missouri City Estates.	06000015	Fort Bend, Harris	12040104	120401040401	06000083	Project Planning	0.114604	Urban/Local	City of Stafford	Fort Bend, Harris, Stafford	N
061000011	City of Galveston Master Drainage Study	City wide drainage and flood risk reduction planning study of Galveston to include Atlas 14 rainfall.	06000010	Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040500	06000108, 06000107, 06000109, 06000110	Watershed Planning	211.07994	Coastal, Urban/Local	City of Galveston	Galveston, City of Galveston	N
061000013	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.	06000015	Harris	12040104	120401040402, 120401040401	06000084, 06000083	Project Planning	3.584954	Urban/Local	City of Bellaire	Harris, Harris County Flood Control District, Bellaire	N
061000014	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.	06000001, 06000011, 06000012, 06000015	Harris	12040104	120401040402, 120401040401	06000084, 06000083	Project Planning	3.584954	Urban/Local	City of Bellaire	Harris, Harris County Flood Control, City of Bellaire	N
061000015	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.	06000001, 06000011, 06000012, 06000015	Harris	12040104	120401040402, 120401040401	06000084, 06000083	Project Planning	3.584954	Urban/Local	City of Bellaire	Harris, Harris County Flood Control, City of Bellaire	N

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000001	Durant Street Storm Sewer and Pavement Improvements - Phase 1	\$ 110,000.00	Bonds/Other Financing (100%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000002	Durant Street Storm Sewer and Pavement Improvements - Phase 2	\$ 90,000.00	Bonds/Other Financing (100%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000003	City of Arcola Regional Drainage Improvements	\$ 233,000.00		41.00	37.00	39.00	0.00	0.00	0.00	0.22	1.23		
061000004	City of Stafford Drainage Improvements	\$ 300,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000005	Missouri City Estates Drainage Improvements	\$ 100,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000011	City of Galveston Master Drainage Study	\$ 1,000,000.00		21,858.00	19,143.00	93,583.00	509.00	0.00	0.00	408.63	260.88		
061000013	City of Bellaire Local Drainage System Asset Management	\$ 300,000.00	Bonds/Other Financing (25%)	5,879.00	5,539.00	37,604.00	71.00	0.00	0.00	70.91	0.15		
061000014	City of Bellaire Regional Detention Facilities Development	\$ 1,000,000.00	Bonds/Other Financing (25%)	5,879.00	5,539.00	37,604.00	71.00	0.00	0.00	70.91	0.15		
061000015	City of Bellaire Cypress Ditch Drainage Improvements	\$ 1,000,000.00	Bonds/Other Financing (25%)	5,879.00	5,539.00	37,604.00	71.00	0.00	0.00	70.91	0.15		



Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000016	City of Bunker Hill Drainage Projects	Further study of proposed localized and regional flood risk reduction projects within the City of Bunker Hill.	06000001, 06000011, 06000012, 06000015	Harris	12040104	120401040303	06000080	Project Planning	1.43671	Urban/Local	City of Bunker Hill Village	Harris, Harris County Flood Control, City of Bunker Hill Village	N
061000017	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.	06000001, 06000010, 06000015	Harris	12040104	120401040303	06000080	Watershed Planning	1.43671	Urban/Local	City of Bunker Hill Village	Harris, Harris County Flood Control, City of Bunker Hill Village	N
061000022	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.	06000015	Brazoria, Galveston, Harris	12040204	120402040100	06000106	Project Planning	261.60004	Riverine, Coastal, Urban/Local	City of League City	Galveston, Harris, Harris County Flood Control District,	N
061000024	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.	06000001, 06000015	Harris	12040104	120401040104	06000074	Project Planning	12.763415	Riverine, Urban/Local	Harris County	Harris, Harris County Flood Control District, Katy, Houston	N
061000025	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.	06000001, 06000003, 06000004, 06000015	Harris	12040104	120401040704	06000096	Project Planning	0.261431	Riverine, Urban/Local	Harris County	Harris, Harris County Flood Control District	N
061000026	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.	06000001, 06000003, 06000004	Harris	12040104	120401040203	06000077	Project Planning	0.170291	Riverine, Urban/Local	Harris County	Harris, Harris County Flood Control District, Houston	N
061000027	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.	06000001, 06000015	Harris	12040101, 12040104	120401010502, 120401040704	06000025, 06000096	Project Planning	1.444033	Urban/Local	Harris County	Harris, Harris County Flood Control District	N

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000016	City of Bunker Hill Drainage Projects	\$ 100,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000017	City of Bunker Hill Master Drainage and Stormwater Management Plan	\$ 170,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000022	Lower Clear Creek & Dickinson Bayou Flood Mitigation Plan - Dickinson Bayou Alternative 2	\$ 1,090,000.00		13,029.00	11,413.00	64,095.00	147.00	9.00	9.00	240.15	128.52		
061000024	Williamsburg Subdivision Drainage Assessment	\$ 1,260,000.00	Harris County Bond Program 2018	2.00	2.00	8.00	0.00	0.00	0.00	0.61	6.59		
061000025	Preliminary Drainage & Infrastructure Improvements Happy Hide A Way Subdivision	\$ 110,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000026	Bridgewater Village & Enclave at Bridgewater Drainage Analysis	\$ 750,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00		
061000027	Lake Shadows Subdivision Drainage Improvements	\$ 280,000.00		41.00	38.00	149.00	0.00	0.00	0.00	0.00	0.47		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000028	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.	06000001, 06000003, 06000004, 06000015	Harris	12040104	120401040704	06000096	Project Planning	0.503369	Riverine, Urban/Local	Harris County	Harris, Harris County Flood Control District	N
061000029	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.	06000001, 06000003, 06000004, 06000015	Harris	12040101, 12040104	120401010502, 120401040704	06000025, 06000096	Project Planning	0.793754	Riverine, Urban/Local	Harris County	Harris, Harris County Flood Control District	N
061000031	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.	06000001, 06000013, 06000014, 06000015	Chambers , Harris	12040204	120402040100	06000106	Project Planning	0.958358	Riverine, Urban/Local	City of Shoreacres	Harris, Harris County Flood Control District, Shoreacres	N
061000032	Willow Creek - Overflow Flooding between Burlington Northern Railroad and Hufsmith-Kohrville Rd. Analysis	Study recommended as part of the Willow Creek Watershed Plan. Planning level analysis to identify flooding reasons in Northern Point subdivision south of SH99.	06000001, 06000003, 06000004, 06000015	Harris	12040102	120401020106, 120401020105, 120401020205, 120401020210, 120401020209, 120401020212	06000031, 06000030, 06000037, 06000042, 06000041, 06000044	Project Planning	55.366101	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston, Tomball	N
061000034	Galveston Bay Watershed Plan- Analysis of PA07 100-year Conveyance Project	Project recommended by the Galveston Bay Watershed Plan. Modeling required to determine no negative Proposed subdivision drainage improvements to the Battle Ground Estates include replacement of driveway crossings and widening F101-08.	06000001, 06000005, 06000006, 06000015	Harris	12040104, 12040204	120401040706, 120402040100	06000098, 06000106	Project Planning	19.292984	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, La Porte	N
061000035	Galveston Bay Watershed Plan- Analysis of PA08 100-year Conveyance Project	Project recommended by the Galveston Bay Watershed Plan. Modeling required to determine no negative impacts. Storm sewer improvements to Monument Estates, increase roadside ditch capacity, and expand bypass channel outflowing into F101-00-00.	06000001, 06000005, 06000006, 06000015	Harris	12040104, 12040204	120401040706, 120402040100	06000098, 06000106	Project Planning	19.292984	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, La Porte	N



Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000028	Gum Gully Rd, W Stroker Rd, Wigwam Ln, and Related Infrastructure Drainage Improvements	\$ 130,000.00	Harris County Bond Program 2018	3.00	0.00	6.00	0.00	0.00	0.00	0.06	0.00		
061000029	Spanish Cove Subdivision Drainage Assessment	\$ 150,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000031	Shoreacres Drainage Assessment	\$ 100,000.00		801.00	787.00	2,456.00	3.00	1.00	1.00	17.16	0.22		
061000032	Willow Creek - Overflow Flooding between Burlington Northern Railroad and Hufsmith-Kohrville Rd. Analysis	\$ 590,000.00		10.00	0.00	9.00	0.00	1.00	1.00	0.50	2.66		
061000034	Galveston Bay Watershed Plan- Analysis of PA07 100-year Conveyance Project	\$ 400,000.00		3,302.00	2,855.00	14,150.00	108.00	0.00	0.00	55.06	17.82		
061000035	Galveston Bay Watershed Plan- Analysis of PA08 100-year Conveyance Project	\$ 800,000.00		3,302.00	2,855.00	14,150.00	108.00	0.00	0.00	55.06	17.82		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000037	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.	06000001, 06000010	Brazoria, Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Project Planning	25.088289	Urban/Local	City of Alvin	Brazos River Authority, West Brazoria County Drainage District, Alvin	N
061000038	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.	06000001, 06000010, 06000015	Brazoria	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Watershed Planning	1481.8698	Riverine	Brazoria County	Brazoria, Brazos River Authority, West Brazoria County Drainage District, Gulf Coast Protection District	N
061000039	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.	060000010	Brazoria, Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Watershed Planning	25.088289	Urban/Local	City of Alvin	Brazoria, West Brazoria County Drainage District, Alvin	N
061000040	City of Alvin Open Space Preservation	Study for open space preservation with within adjacent development, dedication of conservation easements or fee simple acquisition of land along Mustang Bayou.	06000001, 06000013, 06000014, 06000015	Brazoria, Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Watershed Planning	25.088289	Riverine, Urban/Local	City of Alvin	Brazoria, West Brazoria County Drainage District, Alvin	N
061000041	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.	06000001. 06000003, 06000004, 06000015	Brazoria	12040204	120402040200, 120402040400, 120402040100	06000107, 06000109, 06000106	Project Planning	27.409399	Urban/Local	City of Manvel	Brazoria, West Brazoria County Drainage District, Manvel	N
061000042	Chambers County Dam and Levee Failure Inundation Map Update	Further study for all participating jurisdictions 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.	06000001, 06000010, 06000015	Chambers	12040203	120402030105, 120402030104, 120402030106, 120402030200	06000103, 06000102, 06000104, 06000105	Watershed Planning	865.54779	Urban/Local	Chambers County	Chambers, Gulf Coast Protection District, Liberty County Water Control District 1	N

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000037	City of Alvin Flood Gauges	\$ 50,000.00	Other (50%)	3,445.00	2,605.00	21,569.00	18.00	0.00	0.00	56.81	262.30		
061000038	Brazoria County Costal River Flood Extent Analysis	\$ 50,000.00		18,848.00	14,344.00	65,547.00	248.00	0.00	0.00	328.06	8,584.16		
061000039	City of Alvin Master Drainage Plan	\$ 100,000.00	Entity/ Budget Funds (50%)	3,445.00	2,605.00	21,569.00	18.00	0.00	0.00	56.81	262.30		
061000040	City of Alvin Open Space Preservation	\$ 500,000.00	Other (0%)	3,445.00	2,605.00	21,569.00	18.00	0.00	0.00	56.81	262.30		
061000041	City of Manvel SH. 6 Drainage Improvements	\$ 3,000,000.00		1,250.00	966.00	8,190.00	8.00	0.00	0.00	43.31	178.80		
061000042	Chambers County Dam and Levee Failure Inundation Map Update	\$ 25,000.00		151.00	56.00	797.00	0.00	0.00	0.00	7.30	354.08		



Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000043	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.	06000001, 06000003, 06000004, 06000015	Brazoria, Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Project Planning	25.088289	Riverine	City of Alvin	Brazoria, West Brazoria County Drainage District, Alvin	N
061000044	Chambers County Property Protection	Stud 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.	06000001, 06000011, 06000012, 06000015	Chambers	12040203	120402030105, 120402030104, 120402030106, 120402030200	06000103, 06000102, 06000104, 06000105	Project Planning	865.54779	Urban/Local	Chamber s County	Chambers, Trinity River Authority of Texas, Liberty County Water Control District 1	N
061000045	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.	06000001, 06000003. 06000004, 06000015	Brazoria	12040204	120402040200, 120402040400, 120402040100	06000107, 06000109, 06000106	Project Planning	27.409399	Urban/Local	City of Manvel	Brazoria, West Brazoria County Drainage District, Manvel	N
061000046	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.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Project Planning	1481.8698	Urban/Local	Brazoria County	Brazoria,, West Brazoria County Drainage District, Pearland, Manvel, Iowa Colony, Alvin, Brookside Village, Hillcrest, Liverpool, Hitchcock	N
061000047	City of Manvel Various Drainage Improvements	Study of various drainage improvements, including storm sewer rehabilitation and ditch deepening.	06000001, 06000003. 06000004, 06000015	Brazoria	12040204	120402040200, 120402040400, 120402040100	06000107, 06000109, 06000106	Project Planning	27.409399	Urban/Local	City of Manvel	Brazoria, West Brazoria County Drainage District, Manvel	N
061000048	Brazoria County Property Protection	Further study required to assess alternatives to restore drainage and mitigate flooding throughout the county.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Project Planning	1481.8698	Urban/Local	Brazoria County	Brazoria, West Brazoria County Drainage District, Gulf Coast Protection District	N

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000043	City of Alvin Detention Pond Construction - Mustang and Dickinson Bayou	\$ 200,000.00	Entity/ Budget Funds (25%)	3,445.00	2,605.00	21,569.00	18.00	0.00	0.00	56.81	262.30		
061000044	Chambers County Property Protection	\$ 500,000.00		151.00	56.00	797.00	0.00	0.00	0.00	7.30	354.08		
061000045	City of Manvel Flora St. Drainage Improvements	\$ 100,000.00		1,250.00	966.00	8,190.00	8.00	0.00	0.00	43.31	178.80		
061000046	Brazoria County Drainage Improvements	\$ 350,000.00		18,848.00	14,344.00	65,547.00	248.00	0.00	0.00	328.06	8,584.16		
061000047	City of Manvel Various Drainage Improvements	\$ 460,000.00		1,250.00	966.00	8,190.00	8.00	0.00	0.00	43.31	178.80		
061000048	Brazoria County Property Protection	\$ 500,000.00		18,848.00	14,344.00	65,547.00	248.00	0.00	0.00	328.06	8,584.16		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000049	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.	06000015	Brazoria	12040204	120402040400	06000109	Project Planning	0.438197	Urban/Local	City of Hillcrest Village	Brazoria, West Brazoria County Drainage District, Hillcrest	N
061000050	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.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040400	06000109	Project Planning	3.372056	Riverine	Brazoria Drainage District #4	Brazoria, Fort Bend, West Brazoria County Drainage District, Arcola, Iowa Colony	N
061000051	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.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040400	06000109	Project Planning	1.608493	Riverine	Brazoria Drainage District #4	Brazoria, West Brazoria County Drainage District, Manvel, Iowa Colony	N
061000052	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.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040400	06000109	Project Planning	13.891782	Riverine	Brazoria Drainage District #4	Brazoria, Fort Bend, West Brazoria County Drainage District, Arcola, Manvel, Iowa Colony	N
061000053	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.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040400	06000109	Project Planning	0.48644	Riverine	Brazoria Drainage District #4	Brazoria, West Brazoria County Drainage District, Iowa Colony	N
061000054	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.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	5.70859	Riverine	Brazoria Drainage District #4	Brazoria, West Brazoria County Drainage District, Pearland, Manvel	N
061000055	City of Galveston Coastal Road Elevation	Elevate coastal roads to better protect public during evacuation and to protect the roads from flood damage, where technically feasible.	06000001, 06000003, 06000004	Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040500	06000108, 06000107, 06000109, 06000110	Project Planning	211.07994	Coastal	City of Galveston	Galveston, City of Galveston	N



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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000049	City of Hillcrest Village Drainage Improvements	\$ 130,000.00		128.00	121.00	333.00	1.00	0.00	0.00	2.07	0.13		
061000050	West Chocolate Bayou (CR 383 Ditch)	\$ 252,400.00		0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04		
061000051	West Fork Chocolate (Cold River Ranch Ditch)	\$ 200,000.00		60.00	54.00	56.00	0.00	0.00	0.00	1.19	0.44		
061000052	West Fork Chocolate Bayou	\$ 2,072,000.00		295.00	239.00	442.00	0.00	0.00	0.00	6.01	157.04		
061000053	East Chocolate Bayou (E103-00-00)	\$ 48,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00		
061000054	Cannon Ditch Segment 2	\$ 932,000.00		574.00	342.00	814.00	0.00	0.00	0.00	2.78	26.85		
061000055	City of Galveston Coastal Road Elevation	\$ 1,000,000.00		21,858.00	19,143.00	93,583.00	509.00	0.00	0.00	408.63	260.88		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000056	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.	06000001, 06000003, 06000004, 06000015	Brazoria, Galveston	12040204	120402040100	06000106	Project Planning	1.147714	Riverine	City of Pearland	Brazoria, Galveston, West Brazoria County Drainage District, Pearland, Friendswood	N
061000057	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.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040100	06000106	Project Planning	4.745045	Riverine	City of Pearland	Brazoria, West Brazoria County Drainage District, Pearland	N
061000059	City of Manvel Gates Loop Subdivision Drainage Improvement	Further study proposed Gates Loop subdivision drainage improvement.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040400	06000109	Project Planning	0.045648	Urban/Local	City of Manvel	Brazoria, West Brazoria County Drainage District, Manvel	N
061000060	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.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040100	06000106	Project Planning	1.833248	Riverine	City of Pearland	Brazoria, West Brazoria County Drainage District, Pearland, Brookside Village	N
061000061	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.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040100	06000106	Project Planning	5.201152	Riverine	City of Pearland	Brazoria, West Brazoria County Drainage District, Pearland	N
061000063	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.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040100	06000106	Project Planning	4.227454	Riverine	City of Pearland	Brazoria, West Brazoria County Drainage District, Pearland	N
061000064	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.	06000001, 06000003, 06000004, 06000015	Brazoria, Fort Bend	12040204	120402040400	06000109	Project Planning	5.350617	Riverine	Brazoria Drainage District #4	Brazoria, Fort Bend, West Brazoria County Drainage District, Pearland, Manvel	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000056	Mary's Creek Lower Segment	\$ 2,436,000.00	Other	75.00	60.00	554.00	1.00	1.00	1.00	2.63	0.44		
061000057	Hickory Slough (Upper Segment)	\$ 1,136,000.00	Other	413.00	91.00	1,269.00	4.00	0.00	0.00	1.56	6.48		
061000059	City of Manvel Gates Loop Subdivision Drainage Improvement	\$ 100,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000060	Hickory Slough Middle Segment	\$ 864,000.00	Other	353.00	215.00	1,596.00	0.00	0.00	0.00	4.09	8.21		
061000061	Mary's Creek Upper Segment	\$ 460,000.00	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000063	Mary's Creek Middle Segment	\$ 628,000.00	Other	994.00	745.00	2,861.00	5.00	0.00	0.00	19.28	9.73		
061000064	Mustang Bayou Middle Segment	\$ 1,212,000.00		257.00	202.00	2,051.00	1.00	0.00	0.00	5.62	39.29		



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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000065	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.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040100	06000106	Project Planning	1.011809	Riverine	City of Pearland	Brazoria, West Brazoria County Drainage District, Pearland	N
061000066	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.	06000001, 06000003, 06000004, 06000015	Fort Bend	12040204	120402040400, 120402040100	06000109, 06000106	Project Planning	7.070206	Riverine	Brazoria Drainage District #4	Fort Bend, Missouri City, Houston	N
061000067	City of Alvin Dickinson Bayou Watershed Study	Study of Dickinson Bayou Watershed to determine drainage improvement alternatives.	06000001, 06000010	Brazoria, Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Watershed Planning	25.088289	Riverine	City of Alvin	Brazoria, West Brazoria County Drainage District, Alvin	N
061000069	City of Galveston Shoreline Protection	Further study and FMP development of a proposed shoreline protection for areas prone to coastal erosion.	06000001	Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040500	06000108, 06000107, 06000109, 06000110	Project Planning	211.07994	Coastal	City of Galveston	Galveston, City of Galveston	N
061000070	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.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040100	06000106	Project Planning	2.180323	Riverine	City of Pearland	Brazoria, West Brazoria County Drainage District, Pearland	N
061000071	City of Galveston Dune Restoration	Study of dune system to determine needs and flood damage reduction potential of restoration.	06000001, 06000015	Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040500	06000108, 06000107, 06000109, 06000110	Project Planning	211.07994	Coastal, Urban/Local	City of Galveston	Galveston, City of Galveston	N
061000072	City of Hillcrest Village Engineering Survey	Conduct an engineering assessment to establish proper drainage for 24 homes located in the high risk flood Zone.	06000015	Brazoria	12040204	120402040400	06000109	Project Planning	0.438197	Urban/Local	City of Hillcrest Village	Brazoria, West Brazoria County Drainage District, Hillcrest	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000065	Hickory Slough Lower Segment	\$ 1,048,000.00	Other	424.00	377.00	1,648.00	0.00	0.00	0.00	6.26	4.77		
061000066	Mustang Bayou Upper Segment	\$ 2,040,000.00		415.00	367.00	778.00	0.00	3.00	3.00	4.48	19.51		
061000067	City of Alvin Dickinson Bayou Watershed Study	\$ 500,000.00	Entity/ Budget Funds (25%)	3,445.00	2,605.00	21,569.00	18.00	0.00	0.00	56.81	262.30		
061000069	City of Galveston Shoreline Protection	\$ 50,000.00		21,858.00	19,143.00	93,583.00	509.00	0.00	0.00	408.63	260.88		
061000070	Cowart Creek Segment 16	\$ 40,000.00	Other	150.00	123.00	313.00	0.00	0.00	0.00	1.10	7.82		
061000071	City of Galveston Dune Restoration	\$ 1,000,000.00		21,858.00	19,143.00	93,583.00	509.00	0.00	0.00	408.63	260.88		
061000072	City of Hillcrest Village Engineering Survey	\$ 300,000.00		128.00	121.00	333.00	1.00	0.00	0.00	2.07	0.13		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000076	Dredging Cedar Bayou	Study of proposed Cedar Bayou dredging to determine flood risk reduction potential.	06000001, 06000015	Harris, Chambers	12040203	120402030105, 120402030104, 120402030106, 120402030200	06000103, 06000102, 06000104, 06000105	Project Planning	44.227743	Riverine	Chambers County	Chambers, Baytown, Mont Belvieu, Southeast Texas Flood Control District, Liberty County Water Control District 1	N
061000078	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	06000001, 06000010, 06000015	Brazoria	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Watershed Planning	1481.8698	Urban/Local	Brazoria County	Brazoria, West Brazoria County Drainage District, Gulf Coast Protection District	N
061000080	Replace the Tiki Drive bridge with improved, hardened bridge to withstand storm surge and debris.	Further study of proposed Tiki Drive bridge modifications	06000001, 06000015	Galveston	12040204	120402040200	06000107	Project Planning	1.5865	Urban/Local	City of Tiki Island	Galveston, Tiki Island	N



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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000076	Dredging Cedar Bayou	\$ 7,070,000.00		119.00	44.00	735.00	0.00	0.00	0.00	6.29	341.08		
061000078	Dam and Levee Failure Inundation Map Update	\$ 2,200,000.00		18,848.00	14,344.00	65,547.00	248.00	0.00	0.00	328.06	8,584.16		
061000080	Replace the Tiki Drive bridge with improved, hardened bridge to withstand storm surge and debris.	\$ 220,000.00		1,006.00	978.00	1,721.00	6.00	0.00	0.00	9.64	3.91		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000082	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.	06000001, 06000015	Waller	12040102, 12040104	120401020102, 120401020103, 120401020204, 120401020101, 120401020201, 120401020202, 120401020203, 120401020205, 120401020207, 120401020206, 120401040102, 120401040103, 120401040101, 120401040203	06000027, 06000028, 06000036, 06000026, 06000033, 06000034, 06000035, 06000037, 06000039, 06000038, 06000072, 06000073, 06000071, 06000077	Preparedness	515.94831	Riverine, Urban/Local	Waller County	Waller, San Jacinto River Authority, Brazos River Authority, Katy, Waller, Houston, Prairie View, Gulf Coast Protection District	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000082	Stream and River Flood Program	\$ 20,000.00	General Revenue (50%)	1,067.00	708.00	2,410.00	6.00	19.00	19.00	40.91	1,357.32		



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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000083	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.	06000015	Liberty	12040103, 12040203	120401030201, 120401030108, 120401030109, 120401030205, 120401030402, 120401030203, 120401030204, 120401030202, 120401030401, 120402030104, 120402030103, 120402030102, 120402030101	06000056, 06000053, 06000054, 06000060, 06000070, 06000058, 06000059, 06000057, 06000069, 06000102, 06000101, 06000100, 06000099	Project Planning	1169.7636	Urban/Local	Liberty County	Liberty, Cleveland, Dayton, North Cleveland, Plum Grove, Mont Belvieu, Southeast Texas Flood Control District, Liberty County Water Control District 1	N
061000084	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	06000001, 06000015	Galveston	12040204	120402040200	06000107	Watershed Planning	0.447376	Urban/Local	City of Bayou Vista	Galveston, Bayou Vista	Y
061000085	Cane Island Branch-Alt 2	Further study and FMP development of proposed channel modifications to Cane Island Branch including Atlas 14 rainfall.	06000001, 06000015	Waller, Harris, Fort Bend	12040104	120401040102, 120401040103, 120401040104, 120401040101, 120401040203	06000072, 06000073, 06000074, 06000071, 06000077	Project Planning	14.52125	Urban/Local	Waller County	Fort Bend, Harris, Waller, Harris County Flood Control District, Katy	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000083	Liberty County Drainage Projects	\$ 2,000,000.00		3,618.00	2,271.00	4,854.00	8.00	7.00	7.00	144.17	1,379.48		
061000084	City of Bayou Vista Master Drainage Plan	\$ 130,000.00		1,122.00	1,095.00	1,502.00	3.00	0.00	0.00	7.71	0.00		
061000085	Cane Island Branch-Alt 2	\$ 3,270,000.00	General Revenue (10%)	546.00	444.00	2,216.00	8.00	4.00	4.00	10.03	21.65		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000086	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.	06000001, 06000015	Walker	12040103	120401030101	06000046	Watershed Planning	2.213119	Urban/Local	City of New Waverly	Walker, New Waverly	N
061000087	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.	06000001, 06000015	Galveston	12040204	120402040200	06000107	Project Planning	14.232827	Urban/Local	City of La Marque	Galveston, La Marque	N
061000088	City of League City - Kansas Street Drainage	Further study and FMP development of proposed street drainage modifications to Kansas Street.	06000001, 06000015	Galveston , Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	52.888211	Urban/Local	City of League City	Galveston, Harris, League City	N
061000089	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.	06000001, 06000010, 06000015	Galveston , Harris	12040204	120402040200, 120402040100	06000107, 06000106	Watershed Planning	20.829157	Coastal	City of Friendswood	Galveston, Harris, Harris County Flood Control District, Friendswood	N
061000090	City of Bayou Vista - Storm Sewer System Evaluation	Storm sewer system evaluation to determine reconstruction/upgrade needs to increase water flow	06000001, 06000015	Galveston	12040204	120402040200	06000107	Project Planning	0.447376	Urban/Local	City of Bayou Vista	Galveston, Bayou Vista	N
061000091	City of Friendswood Comprehensive Flood Mitigation Plan	Study to update city floodplain maps and develop flood mitigation plan	06000001, 06000015	Galveston , Harris	12040204	120402040200, 120402040100	06000107, 06000106	Watershed Planning	20.829157	Urban/Local	City of Friendswood	Galveston, Harris, Harris County Flood Control District	N
061000094	City of Santa Fe - Storm Water Detention & Widening Drainage System and Culverts Study	Study to plan for storm sewer detention and drainage system modifications.	06000001, 06000015	Galveston	12040204	120402040300, 120402040200	06000108, 06000107	Project Planning	17.035296	Urban/Local	City of Santa Fe	Galveston, Santa Fe	N
061000096	City of Friendswood Devils Dip	Further study and design of modifications along Mary's creek bridge and channel	06000001, 06000015	Galveston , Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	20.829157	Riverine	City of Friendswood	Galveston, Harris County Flood Control District, Friendswood	N



Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000086	Property Protection, Structural Project	\$ 2,500,000.00		23.00	18.00	19.00	0.00	0.00	0.00	0.48	0.89		
061000087	City of La Maque - East Side Storm water detention	\$ 360,000.00		829.00	767.00	1,612.00	8.00	1.00	1.00	31.11	37.85		
061000088	City of League City - Kansas Street Drainage	\$ 580,000.00		5,251.00	4,835.00	20,978.00	25.00	2.00	2.00	104.56	1,308.19		
061000089	Update City of Friendswood Storm Surge Maps to Reflect the NWS Predictions	\$ 140,000.00		1,680.00	1,601.00	5,467.00	2.00	5.00	5.00	37.72	18.37		
061000090	City of Bayou Vista - Storm Sewer System Evaluation	\$ 130,000.00		1,122.00	1,095.00	1,502.00	3.00	0.00	0.00	7.71	0.00		
061000091	City of Friendswood - Comprehensive Flood Mitigation Plan	\$ 140,000.00		1,680.00	1,601.00	5,467.00	2.00	5.00	5.00	37.72	18.37		
061000094	City of Santa Fe - Storm Water Detention & Widening Drainage System and Culverts Study	\$ 300,000.00		400.00	306.00	798.00	1.00	9.00	9.00	4.12	12.12		
061000096	City of Friendswood - Devils Dip	\$ 410,000.00		1,680.00	1,601.00	5,467.00	2.00	5.00	5.00	37.72	18.37		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000097	League City - Stormwater Drainage Improvement- Interurban & Newport ditch	Further study of proposed slope paving (concrete lining) improvements	06000001, 06000015	Galveston , Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	52.888211	Urban/Local	City of League City	Galveston, Harris, Harris County Flood Control District	N
061000098	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.	06000001, 06000015	Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Project Planning	664.94832	Coastal, Urban/Local	Galvesto n County	Galveston, USACE	N
061000101	Fort Bend County - Big Creek Project	Further study of Big Creek channel improvements and wetland mitigation sites.	06000001, 06000011, 06000012, 06000015	Fort Bend	12040104, 12040204	120401040102, 120401040103, 120401040104, 120401040101, 120401040401, 120401040501, 120402040400, 120402040100	06000072, 06000073, 06000074, 06000071, 06000083, 06000085, 06000109, 06000106	Project Planning	882.72305	Riverine	Fort Bend County Drainage District	Fort Bend County	N
061000102	Raise Road Surfaces in City of Plum Grove	Further evaluation of road surface elevation.	06000001, 06000011, 06000012, 06000015	Liberty	12040103	120401030402	06000070	Project Planning	3.613092	Urban/Local	City of Plum Grove	Liberty, Plum Grove, Southeast Texas Flood Control District	N
061000103	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.	06000001, 06000015	Galveston , Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	52.888211	Urban/Local	City of League City	Galveston, Harris, Harris County Flood Control District, League City	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000097	League City - Stormwater Drainage Improvement- Interurban & Newport ditch	\$ 50,000.00		5,251.00	4,835.00	20,978.00	25.00	2.00	2.00	104.56	1,308.19		
061000098	Study of Texas City Hurricane Flood Protection Project	\$ 1,590,000.00		48,570.00	42,185.00	171,395.00	681.00	30.00	30.00	910.35	3,412.02		
061000101	Fort Bend County - Big Creek Project	\$ 200,000.00		1,540.00	1,208.00	5,899.00	11.00	6.00	6.00	17.78	122.13		
061000102	Raise Road Surfaces in City of Plum Grove	\$ 35,000.00		363.00	267.00	589.00	1.00	0.00	0.00	8.98	9.22		
061000103	Highland Terrace Drainage	\$ 190,000.00		5,251.00	4,835.00	20,978.00	25.00	2.00	2.00	104.56	1,308.19		



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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000104	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	06000001, 06000015	Liberty	12040103	120401030402	06000070	Project Planning	3.613092	Urban/Local	City of Friendswood	Liberty, Plum Grove, Southeast Texas Flood Control District	N
061000105	City of Friendswood Tributary 2 Drainage/Outfall Improvements	Further study of component of 2004 TXDOT study to include Atlas 14 rainfalls	06000001, 06000015	Galveston , Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	20.829157	Urban/Local	City of Friendswood	Galveston, Harris, Harris County Flood Control District	N
061000107	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.	06000001, 06000015	Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Project Planning	664.94832	Urban/Local	Galveston County	Galveston, Nassau Bay, Bayou Vista, Clear Lake Shores, Galveston, Jamaica Beach, Friendswood, Hitchcock, La Marque, League City, Santa Fe, Texas City, Kemah, Tiki Island, Dickinson, Seabrook	N
061000115	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.	06000001, 06000015	Galveston , Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	52.888211	Urban/Local	City of League City	Galveston, Harris, Harris County Flood Control District	N
061000116	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.	06000001, 06000015	Walker	12040103	120401030101	06000046	Watershed Planning	2.213119	Urban/Local	City of New Waverly	Walker, New Waverly	N
061000117	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	06000001, 06000015	Galveston	12040204	120402040200	06000107	Project Planning	0.451429	Urban/Local	City of Bayou Vista	Galveston, Bayou Vista	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000104	Sunmeadow Drainage Improvements Phase 2	\$ 160,000.00		363.00	267.00	589.00	1.00	0.00	0.00	8.98	9.22		
061000105	City of Friendswood - Tributary 2 Drainage/Outfall Improvements	\$ 170,000.00		1,680.00	1,601.00	5,467.00	2.00	5.00	5.00	37.72	18.37		
061000107	Storm water detention ponds & Widening of drainage systems feasibility study	\$ 11,000,000.00		48,570.00	42,185.00	171,395.00	681.00	30.00	30.00	910.35	3,412.02		
061000115	Stormwater Drainage Improvement- Nottingham ditch	\$ 50,000.00		5,251.00	4,835.00	20,978.00	25.00	2.00	2.00	104.56	1,308.19		
061000116	Remedy Data Deficiency in City of New Waverly	\$ 100,000.00		23.00	18.00	19.00	0.00	0.00	0.00	0.48	0.89		
061000117	City of Bayou Vista - Drainage Improvement Program	\$ 100,000.00		1,123.00	1,095.00	1,508.00	3.00	0.00	0.00	7.46	0.00		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000118	Stormwater Drainage Improvement-Bradshaw Rd	Further study of proposed slope paving (concrete lining) improvements. Southwest from SH 3 to the north line of CCISD's Elem. School #25. Pending Funding	06000001, 06000015	Galveston , Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	52.888211	Urban/Local	City of League City	Galveston, Harris, Harris County Flood Control District	N
061000119	Shellside Drainage Improvements	Further study of proposed drainage improvements to Shellside.	06000001, 06000015	Galveston , Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	52.888211	Urban/Local	City of League City	Galveston, Harris, Harris County Flood Control District	N
061000120	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.	06000003, 06000004	Grimes	12040101, 12040102	120401010101, 120401010301, 120401010302, 120401010303, 120401010103, 120401010304, 120401010305, 120401010306, 120401020202, 120401020203, 120401020207, 120401020206	06000001, 06000012, 06000013, 06000014, 06000003, 06000015, 06000016, 06000017, 06000034, 06000035, 06000039, 06000038	Project Planning	798.87368	Urban/Local	Grimes County	Grimes, Plantersville, Todd Mission	N
061000121	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	06000001, 06000015	Galveston	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	1.907838	Urban/Local	City of Kemah	Galveston, Chambers, Kemah	N
061000122	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	06000001, 06000011, 06000012, 06000015	Galveston	12040204	120402040100	06000106	Project Planning	0.710432	Urban/Local	City of Clear Lake Shores	Galveston, Clear Lake Shores	N



Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000123	FM518 Drainage Improvements-Phase 2	Further study of component of 2007 Master Drainage Plan to include Atlas 14 rainfall	06000001, 06000015	Galveston , Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	20.829157	Urban/Local	City of Friendswood	Galveston, Harris, Harris County Flood Control District	N
061000124	Replace Existing Culverts in City of Arcola	Evaluation of proposed culvert replacement.	06000003, 06000004, 06000015	Fort Bend	12040204	120402040400	06000109	Project Planning	2.598059	Urban/Local	City of Arcola	Fort Bend, Arcola	N
061000125	Update Liberty County Floodplain Maps	Study by participating jurisdictions to update floodway maps throughout the county, including Atlas 14 rainfalls.	06000001, 06000010, 06000015	Liberty	12040103, 12040203	120401030108, 120401030109, 120401030201, 120401030202, 120401030203, 120401030204, 120401030205, 120401030401, 120401030402, 120402030101, 120402030102, 120402030103, 120402030104	06000053, 06000054, 06000056, 06000057, 06000058, 06000059, 06000060, 06000069, 06000070, 06000099, 06000100, 06000101, 06000102	Watershed Planning	1169.7636	Riverine	Liberty County	Liberty, Dayton, Liberty County Water Control District 1	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000123	FM518 Drainage Improvements-Phase 2	\$ 410,000.00		1,680.00	1,601.00	5,467.00	2.00	5.00	5.00	37.72	18.37		
061000124	Replace Existing Culverts in City of Arcola	\$ 200,000.00		41.00	37.00	39.00	0.00	0.00	0.00	0.22	1.23		
061000125	Update Liberty County Floodplain Maps	\$ 1,243,000.00		3,618.00	2,271.00	4,854.00	8.00	7.00	7.00	144.17	1,379.48		



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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000129	Waller County Flood Damage Prevention Planning	Establish watershed-based planning and studies to address flood hazards with neighboring and constituent communities.	06000001, 06000015	Waller	12040102, 12040104	120401020102, 120401020103, 120401020204, 120401020101, 120401020201, 120401020202, 120401020203, 120401020205, 120401020207, 120401020206, 120401040102, 120401040103, 120401040101, 120401040203	06000027, 06000028, 06000036, 06000026, 06000033, 06000034, 06000035, 06000037, 06000039, 06000038, 06000072, 06000073, 06000071, 06000077	Watershed Planning	515.94831	Urban/Local	Waller County	Waller, Katy, City of Waller, Houston, Prairie View	N
061000130	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.	06000001, 06000015	Walker	12040101, 12040103	120401010202, 120401010204, 120401030101, 120401030301, 120401030302	06000006, 06000008, 06000046, 06000061, 06000062	Project Planning	76.334731	Urban/Local	Walker County	Walker, Willis, New Waverly	N
061000131	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.	06000001, 06000015	Galveston	12040204	120402040200, 120402040100	06000107, 06000106	Watershed Planning	1.907838	Urban/Local	City of Kemah	Galveston, Chambers, Kemah	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000129	Waller County Flood Damage Prevention Planning	\$ 1,160,000.00	General Revenue (25%)	1,067.00	708.00	2,410.00	6.00	19.00	19.00	40.91	1,357.32		
061000130	Hostetter and Gourd Creek Bridges Elevation Evaluation	\$ 130,000.00		1,169.00	1,023.00	1,900.00	0.00	2.00	2.00	10.22	25.46		
061000131	Implementation Study of Storm Sewer System Re-engineering in City of Kemah	\$ 190,000.00		562.00	425.00	3,492.00	7.00	0.00	0.00	12.01	0.72		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000134	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.	06000001, 06000015	Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Project Planning	664.94832	Urban/Local	Galveston County	Galveston, USACE	N
061000135	Recanalization Feasibility Study	Dechannelize existing feeder creeks that flow from north to south and improve drainage for storm water runoff.	06000001, 06000015	Liberty	12040103, 12040203	120401030201, 120401030108, 120401030109, 120401030205, 120401030402, 120401030203, 120401030204, 120401030202, 120401030401, 120402030104, 120402030103, 120402030102, 120402030101	06000056, 06000053, 06000054, 06000060, 06000070, 06000058, 06000059, 06000057, 06000069, 06000102, 06000101, 06000100, 06000099	Project Planning	1169.7636	Riverine, Urban/Local	Liberty County	Liberty, Trinity River Authority of Texas, San Jacinto River Authority, Southeast Texas Flood Control District, Gulf Coast Protection District, Liberty County Water Control District 1	N
061000136	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	06000001, 06000015	Galveston	12040103	120401030201, 120401030401	06000056, 06000069	Project Planning	1.908586	Urban/Local	Galveston County	Galveston, Kemah	N



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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000134	Corp of Engineers study of the Galveston County Water Reservoir Dam and Levee system	\$ 1,590,000.00		48,570.00	42,185.00	171,395.00	681.00	30.00	30.00	910.35	3,412.02		
061000135	Recanalization Feasibility Study	\$ 486,000.00		3,618.00	2,271.00	4,854.00	8.00	7.00	7.00	144.17	1,379.48		
061000136	Corp of Engineers study of the Galveston County Water Reservoir Dam and Levee system	\$ 190,000.00		52.00	37.00	44.00	0.00	0.00	0.00	3.30	6.17		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000137	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	06000001, 06000015	Galveston	12040204	120402040100	06000106	Project Planning	0.710432	Urban/Local	City of Clear Lake Shores	Galveston, Clear Lake Shores	N
061000138	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	06000001, 06000015	Galveston	12040204	120402040200	06000107	Project Planning	14.232827	Urban/Local	City of La Marque	Galveston, La Marque	N
061000139	City of Arcola Regional Drainage Improvements	Study of repetitive loss and possible drainage improvements.	06000001, 06000003, 06000004, 06000015	Fort Bend	12040204	120402040400	06000109	Project Planning	2.598059	Urban/Local	City of Arcola	Fort Bend, Arcola	N
061000140	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.	06000001, 06000010, 06000011, 06000012, 06000015	Liberty	12040103	120401030201, 120401030401	06000056, 06000069	Project Planning	1.908586	Riverine	City of North Cleveland	Liberty, North Cleveland	N
061000141	Southwood Forest Subdivision and Forgotten Forest Subdivision Evaluation	Study to develop a community-wide drainage system in Southwood Forest Subdivision and Forgotten Forest Subdivision.	06000001, 06000015	Walker	12040101	120401010202	06000006	Project Planning	0.285872	Urban/Local	Walker County	Walker	N
061000142	Shadowbend Drainage Improvements Phase 2	Further study of component of 1993 master Drainage Plan Phase 1 to include Atlas 14 rainfall.	06000001, 06000015	Galveston , Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	20.829157	Urban/Local	City of Friendswood	Galveston, Harris, Harris County Flood Control District, Friendswood	N
061000143	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.	06000003, 06000004	Grimes	12040102	120401020203, 120401020206	06000035, 06000038	Project Planning	2.004335	Urban/Local	City of Todd Mission	Grimes, Todd Mission	N
061000145	Jamica Cove Rd. Survey	Engineering assessment needed to determine if elevating the road would reduce future flooding impacts.	06000001, 06000015	Galveston	12040204	120402040300	06000108	Project Planning	0.714848	Urban/Local	City of Jamaica Beach	Galveston, Jamaica Beach	N

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000137	Corp of Engineers study of the Galveston County Water Reservoir Dam and Levee system	\$ 140,000.00		633.00	529.00	3,407.00	4.00	0.00	0.00	8.82	0.00		
061000138	Corp of Engineers study of the Galveston County Water Reservoir Dam and Levee system	\$ 360,000.00		829.00	767.00	1,612.00	8.00	1.00	1.00	31.11	37.85		
061000139	City of Arcola Regional Drainage Improvements	\$ 520,000.00		41.00	37.00	39.00	0.00	0.00	0.00	0.22	1.23		
061000140	Elevate Existing Bridge - East Fork San Jacinto River	\$ 1,000,000.00		52.00	37.00	44.00	0.00	0.00	0.00	3.30	6.17		
061000141	Southwood Forest Subdivision and Forgotten Forest Subdivision Evaluation	\$ 110,000.00		13.00	13.00	5.00	0.00	0.00	0.00	0.00	0.00		
061000142	Shadowbend Drainage Improvements Phase 2	\$ 950,000.00	Entity/ Budget Funds	1,680.00	1,601.00	5,467.00	2.00	5.00	5.00	37.72	18.37		
061000143	City of Todd Mission Reduction of Floodplain Area Roads and Drainage Upgrade	\$ 220,000.00		17.00	11.00	19.00	0.00	0.00	0.00	0.00	1.12		
061000145	Jamica Cove Rd. Survey	\$ 140,000.00		1,276.00	1,238.00	395.00	4.00	0.00	0.00	13.81	2.82		



Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000146	Annalea/Whitehall Kings Park Drainage Drainage Improvements Phase 2	Further study of proposed drainage improvements to Stafford oaks	06000001, 06000015	Galveston , Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	20.829157	Urban/Local	City of Friendswood	Galveston, Harris, Harris County Flood Control District	N
061000147	Implement Drainage Improvements in City of La Marque	Implement drainage projects that support low maintenance and cleaning of drainage ditches.	06000001, 06000015	Galveston	12040204	120402040200	06000107	Project Planning	14.232827	Urban/Local	City of La Marque	Galveston, La Marque	N
061000148	Liberty County Culvert Replacement Project	Increase culvert size in identified flood hazard problem areas within Liberty County.	06000015	Liberty	12040103, 12040203	120401030201, 120401030108, 120401030109, 120401030205, 120401030402, 120401030203, 120401030204, 120401030202, 120401030401, 120402030104, 120402030103, 120402030102, 120402030101	06000056, 06000053, 06000054, 06000060, 06000070, 06000058, 06000059, 06000057, 06000069, 06000102, 06000101, 06000100, 06000099	Project Planning	1169.7636	Urban/Local	Liberty County	Liberty, Cleveland, Dayton, North Cleveland, Mont Belvieu, Liberty County Water Control District 1	N
061000149	Evaluation 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	06000001, 06000015	Galveston	12040204	120402040200	06000107	Project Planning	14.232827	Urban/Local	City of La Marque	Galveston, La Marque	N

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000146	Annalea/Whitehall Kings Park Drainage Drainage Improvements Phase 2	\$ 50,000.00		1,680.00	1,601.00	5,467.00	2.00	5.00	5.00	37.72	18.37		
061000147	Implement Drainage Improvements in City of La Marque	\$ 360,000.00		829.00	767.00	1,612.00	8.00	1.00	1.00	31.11	37.85		
061000148	Liberty County Culvert Replacement Project	\$ 120,000.00		3,618.00	2,271.00	4,854.00	8.00	7.00	7.00	144.17	1,379.48		
061000149	Evaluation of Increase Height of Existing Levee Wall System in City of La Marque	\$ 810,000.00		829.00	767.00	1,612.00	8.00	1.00	1.00	31.11	37.85		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000150	Evaluation of Reinforcement of Critical Facilities in the City of Arcola	Reinforcement of critical facilities to withstand high winds from severe weather.	06000001, 06000011, 06000012	Fort Bend	12040204	120402040400	06000109	Project Planning	2.598059	Urban/Local	City of Arcola	Fort Bend, Arcola	N
061000151	Evaluation of Mitigation Alternatives for Repetitive Flood Claims Properties in Galveston County	Evaluate Mitigation Alternatives of Repetitive Flood Claim Properties in Galveston County	06000001, 06000015	Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Project Planning	664.94832	Urban/Local	Galvesto n County	Galveston Nassau Bay, Bayou Vista, Clear Lake Shores, Galveston, Jamaica Beach, Friendswood, Hitchcock, La Marque, League City, Santa Fe, Texas City, Kemah, Tiki Island, Dickinson, Seabrook	N
061000152	Cane Island Branch-Alt 1	Further study of 2,800 ac-ft detention upstream of Pitts road	06000001, 06000015	Fort Bend, Harris, Waller	12040104	120401040102, 120401040103, 120401040104, 120401040101, 120401040203	06000072, 06000073, 06000074, 06000071, 06000077	Project Planning	14.52125	Urban/Local	Waller County	Waller, Harris County Flood Control District, Katy-Brookshire Drainage District, Katy	N
061000153	Downtown Cleveland Drainage Line Installation	Further study of proposed larger drainage lines in downtown Cleveland to reduce flooding.	06000001, 06000010, 06000015	Liberty, San Jacinto	12040103	120401030201, 120401030108, 120401030109, 120401030203, 120401030202, 120401030401	06000056, 06000053, 06000054, 06000058, 06000057, 06000069	Project Planning	18.736551	Urban/Local	City of Clevelan d	Liberty, Cleveland	N



Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000150	Evaluation of Reinforcement of Critical Facilities in the City of Arcola	\$ 200,000.00		41.00	37.00	39.00	0.00	0.00	0.00	0.22	1.23		
061000151	Evaluation of Mitigation Alternatives for Repetitive Flood Claims Properties in Galveston County	\$ 11,000,000.00		48,570.00	42,185.00	171,395.00	681.00	30.00	30.00	910.35	3,412.02		
061000152	Cane Island Branch-Alt 1	\$ 180,000.00	General Revenue (25%)	546.00	444.00	2,216.00	8.00	4.00	4.00	10.03	21.65		
061000153	Downtown Cleveland Drainage Line Installation	\$ 50,000.00		261.00	133.00	1,267.00	0.00	1.00	1.00	27.33	28.88		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000156	Flood Gates Evaluation at Walker County Annex #2	Evaluation of proposed removable facility flood gates at Walker County Annex #2	06000001, 06000015	Walker	12040101, 12040103	120401010104, 120401010101, 120401010102, 120401010103, 120401010201, 120401010202, 120401010203, 120401010204, 120401030101, 120401030106, 120401030303, 120401030305, 120401030301, 120401030302	06000004, 06000001, 06000002, 06000003, 06000005, 06000006, 06000007, 06000008, 06000046, 06000051, 06000063, 06000065, 06000061, 06000062	Project Planning	797.83651	Urban/Local	Walker County	Walker, Huntsville, New Waverly	N
061000158	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.	06000001, 06000015	Galveston	12040204	120402040200	06000107	Project Planning	0.447376	Urban/Local	City of Bayou Vista	Galveston, Bayou Vista	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000156	Flood Gates Evaluation at Walker County Annex #2	\$ 20,000.00		505.00	437.00	657.00	1.00	2.00	2.00	25.43	180.46		
061000158	City of Bayou Vista Canal Dredging Study	\$ 130,000.00		1,122.00	1,095.00	1,502.00	3.00	0.00	0.00	7.71	0.00		



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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000160	Liberty County Regional Flood Drainage Plan	Regional drainage study to establish a county wide drainage plan including atlas 14 rainfall.	06000001, 06000015	Liberty	12040103, 12040203	120401030201, 120401030108, 120401030109, 120401030205, 120401030402, 120401030203, 120401030204, 120401030202, 120401030401, 120402030104, 120402030103, 120402030102, 120402030101	06000056, 06000053, 06000054, 06000060, 06000070, 06000058, 06000059, 06000057, 06000069, 06000102, 06000101, 06000100, 06000099	Project Planning	1169.7636	Urban/Local	Liberty County	Liberty, Cleveland, Dayton, North Cleveland, Plum Grove, Mont Belvieu, Liberty County Water Control District 1	N
061000161	City of North Cleveland Engineering Study	Study to identify drainage improvements in the City of North Cleveland.	06000001, 06000010, 06000011, 06000012, 06000015	Liberty	12040103	120401030201, 120401030108, 120401030109, 120401030203, 120401030202, 120401030401	06000056, 06000053, 06000054, 06000058, 06000057, 06000069	Project Planning	18.736551	Urban/Local	City of North Cleveland	Liberty, North Cleveland	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000160	Liberty County Regional Flood Drainage Plan	\$ 486,000.00		3,618.00	2,271.00	4,854.00	8.00	7.00	7.00	144.17	1,379.48		
061000161	City of North Cleveland Engineering Study	\$ 400,000.00		261.00	133.00	1,267.00	0.00	1.00	1.00	27.33	28.88		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000162	Elevation of Bridge Road in City of North Cleveland	Further study to elevate Bridge road	06000001, 06000010, 06000011, 06000012, 06000015	Liberty	12040103	120401030201, 120401030108, 120401030109, 120401030203, 120401030202, 120401030401	06000056, 06000053, 06000054, 06000058, 06000057, 06000069	Project Planning	18.736551	Urban/Local	City of North Cleveland	Liberty, North Cleveland	N
061000163	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	06000001	Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Project Planning	664.94832	Urban/Local	Galveston County	Galveston	N
061000164	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	06000015	Galveston	12040204	120402040300, 120402040200	06000108, 06000107	Project Planning	17.035296	Urban/Local	City of Santa Fe	Galveston, Santa Fe	N
061000165	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	06000015	Galveston	12040204	120402040300, 120402040200	06000108, 06000107	Project Planning	17.035296	Urban/Local	City of Santa Fe	Galveston, Santa Fe	N
061000166	City of Stafford Run Creek Detention Pond Construction	Further study of proposed detention ponds immediately downstream of Brand Lane and Independence Park.	06000015	Fort Bend, Harris	12040104, 12040204	120401040401, 120401040501, 120402040400	06000083, 06000085, 06000109	Project Planning	7.020157	Riverine, Urban/Local	City of Stafford	Fort Bend, Harris, Harris County Flood Control District, Stafford	N
061000167	City of Cleveland Drainage Improvements	Further study of proposed city of Cleveland drainage improvements	06000001, 06000015	Liberty, Montgomery, San Jacinto	12040103	120401030201, 120401030108, 120401030109, 120401030203, 120401030202, 120401030401	06000056, 06000053, 06000054, 06000058, 06000057, 06000069	Project Planning	18.736551	Riverine	City of Cleveland	Liberty, Cleveland	N



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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000162	Elevation of Bridge Road in City of North Cleveland	\$ 120,000.00		261.00	133.00	1,267.00	0.00	1.00	1.00	27.33	28.88		
061000163	Galveston County Drainage System Improvement Study	\$ 1,590,000.00		48,570.00	42,185.00	171,395.00	681.00	30.00	30.00	910.35	3,412.02		
061000164	Storm Water Detention Ponds Evaluation in the City of Santa Fe	\$ 380,000.00		400.00	306.00	798.00	1.00	9.00	9.00	4.12	12.12		
061000165	Drainage System Analysis for City of Santa Fe	\$ 300,000.00		400.00	306.00	798.00	1.00	9.00	9.00	4.12	12.12		
061000166	City of Stafford Run Creek Detention Pond Construction	\$ 300,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000167	City of Cleveland Drainage Improvements	\$ 410,000.00		261.00	133.00	1,267.00	0.00	1.00	1.00	27.33	28.88		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000168	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.	06000001, 06000015	Harris, Liberty, Montgomery, San Jacinto	12040103	120401030402, 120401030401	06000070, 06000069	Watershed Planning	94.888873	Riverine, Urban/Local	Montgomery County	Montgomery County, Harris, Liberty County, City of Houston, Harris County Flood Control District	N
061000169	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.	06000001, 06000015	Harris, Montgomery	12040101	120401010401, 120401010402, 120401010404	06000020, 06000021, 06000023	Watershed Planning	122.12355	Riverine, Urban/Local	Montgomery County	Montgomery County, Harris, City of Houston, Harris County Flood Control District	N
061000170	Spring Gully Watershed Planning Project Near-Term Planning Project: PA03	Planning-level study needed. PA03 warranted a near-term solution. Flooded structures centralized in a short reach along the main stem O200-00-00 which the best strategy for the area was buyouts.	06000001, 06000015	Harris	12040104, 12040203	120401040705, 120401040706, 120401040704, 120402030105, 120402030104, 120402030106	06000097, 06000098, 06000096, 06000103, 06000102, 06000104	Project Planning	32.661689	Riverine, Urban/local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Baytown	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000168	San Jacinto Watershed and Tributary Barrier and Flood Mitigation - East County Project	\$ 1,160,000.00		3,499.00	2,371.00	4,867.00	3.00	1.00	1.00	101.79	70.63		
061000169	San Jacinto Watershed and Tributary Barrier and Flood Mitigation - West County Project	\$ 1,110,000.00		3,634.00	2,863.00	12,814.00	34.00	8.00	8.00	89.21	278.89		
061000170	Spring Gully Watershed Planning Project Near-Term Planning Project: PA03	\$ 600,000.00		1,883.00	1,509.00	9,371.00	64.00	1.00	1.00	32.82	73.13		



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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000171	Spring Gully Watershed Planning Project- Near-term Planning Project: PA04	Planning-level study. Lowering WSEL in O203-00-00 to around 29 feet MSL. Most benefit when O203-00-00 and Thompson Road Storm drain system upsized, but Thompson road storm drain design.	06000001, 06000015	Harris	12040104, 12040203	120401040705, 120401040706, 120401040704, 120402030105, 120402030104, 120402030106	06000097, 06000098, 06000096, 06000103, 06000102, 06000104	Project Planning	32.661689	Riverine, Urban/local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Baytown	N
061000172	Spring Gully Watershed Planning Project - Near-term planning project: PA05	Planning-level study needed. A stormwater detention basin near confluence of O207-00-00 nd O207-01-00 required to lower WSEL . Reduced flow rates only after relief channel in Phase III implemented.	06000001, 06000015	Harris	12040104, 12040203	120401040705, 120401040706, 120401040704, 120402030105, 120402030104, 120402030106	06000097, 06000098, 06000096, 06000103, 06000102, 06000104	Project Planning	32.661689	Riverine, Urban/local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Baytown	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000171	Spring Gully Watershed Planning Project- Near-term Planning Project: PA04	\$ 210,000.00		1,883.00	1,509.00	9,371.00	64.00	1.00	1.00	32.82	73.13		
061000172	Spring Gully Watershed Planning Project - Near-term planning project: PA05	\$ 170,000.00		1,883.00	1,509.00	9,371.00	64.00	1.00	1.00	32.82	73.13		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000173	Update Liberty County FIRMs to Include Bench Marks	Add bench marks to updated Flood Insurance Rate Maps.	06000001, 06000015	Liberty	12040103, 12040203	120401030201, 120401030108, 120401030109, 120401030205, 120401030402, 120401030203, 120401030204, 120401030202, 120401030401, 120402030104, 120402030103, 120402030102, 120402030101	06000056, 06000053, 06000054, 06000060, 06000070, 06000058, 06000059, 06000057, 06000069, 06000102, 06000101, 06000100, 06000099	Watershed Planning	1169.7636	Urban/Local	Liberty County	Liberty, Dayton, Liberty County Water Control District 1	N
061000174	Carpenters Planning Study N110-00-00 Diversion to P103-00/P103-03	Feasibility study needed to evaluate a designed interconnection to lower Greens Bayou	06000001, 06000015	Harris	12040101, 12040104	120401010502, 120401040605, 120401040703, 120401040705, 120401040702, 120401040606, 120401040704	06000025, 06000091, 06000095, 06000097, 06000094, 06000092, 06000096	Project Planning	31.025701	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N



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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000173	Update Liberty County FIRMs to Include Bench Marks	\$ 50,000.00		3,618.00	2,271.00	4,854.00	8.00	7.00	7.00	144.17	1,379.48		
061000174	Carpenters Planning Study N110-00-00 Diversion to P103-00/P103-03	\$ 1,200,000.00		812.00	489.00	4,689.00	24.00	2.00	2.00	18.83	96.26		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000175	Regional Implementation of Large Diameter Deep Tunnel Systems for Storm Water Management	Further study of regional Implementation of Large Diameter Deep Tunnel Systems for Storm Water Management	06000001, 06000015	Harris	12040101, 12040102, 12040103, 12040104, 12040203, 12040204	120401010502, 120401040605, 120401040703, 120401040705, 120401040702, 120401040606, 120401040704	06000025, 06000091, 06000095, 06000097, 06000094, 06000092, 06000096	Project Planning	1770.8157	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston, Liberty County Water Control District 1	N
061000176	Lower Greens Feasibility Study	Feasibility study will identify the existing causes of flooding and solutions to reduce the risk of flooding in the lower stretch of Greens Bayou. Potential solutions channel conveyance improvements, detention, or bridge adjustments or replacements.	06000001, 06000010, 06000015	Harris	12040101, 12040102, 12040104	120401010502, 120401010501, 120401020106, 120401020107, 120401040605, 120401040703, 120401040601, 120401040702, 120401040302, 120401040604, 120401040606, 120401040304, 120401040301, 120401040602, 120401040603, 120401040701	06000025, 06000024, 06000031, 06000032, 06000091, 06000095, 06000087, 06000094, 06000079, 06000090, 06000092, 06000081, 06000078, 06000088, 06000089, 06000093	Project Planning	210.13953	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston, Humble	N

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000175	Regional Implementation of Large Diameter Deep Tunnel Systems for Storm Water Management	\$ 20,000,000.00		143,642.00	120,807.00	976,798.00	2,332.00	89.00	89.00	2,407.73	5,993.47		
061000176	Lower Greens Feasibility Study	\$ 1,000,000.00		5,930.00	5,094.00	21,011.00	58.00	3.00	3.00	68.03	2.36		



Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000177	Addicks Reservoir Watershed Study	Watershed wide study using latest data, including MAAPnext models and Atlas 14 rainfall. Study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and benefit and cost metrics for each project	06000001, 06000010, 06000015	Harris, Waller	12040102, 12040104	120401020103, 120401040102, 120401040202, 120401040104, 120401040201, 120401040302, 120401040101, 120401040203, 120401040303, 120401040301	06000028, 06000072, 06000076, 06000074, 06000075, 06000079, 06000071, 06000077, 06000080, 06000078	Watershed Planning	137.9631	Riverine	Harris County Flood Control District (HCFCF)	Harris, Waller, Harris County Flood Control District, Katy, Houston	Y
061000178	Barker Reservoir Watershed Study	Watershed wide study using latest data, including MAAPnext models and Atlas 14 rainfall. Study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and benefit and cost metrics for each project	06000001, 06000010, 06000015	Fort Bend, Harris, Waller	12040102, 12040104	120401020103, 120401040102, 120401040103, 120401040104, 120401040101, 120401040203, 120401040303, 120401040401	06000028, 06000072, 06000073, 06000074, 06000071, 06000077, 06000080, 06000083	Watershed Planning	128.15838	Riverine	Harris County Flood Control District (HCFCF)	Fort Bend, Harris, Waller, Harris County Flood Control District, Katy, Houston	Y

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000177	Addicks Reservoir Watershed Study	\$ 670,000.00		3,746.00	3,076.00	11,473.00	53.00	0.00	0.00	114.09	1,607.18		
061000178	Barker Reservoir Watershed Study	\$ 620,000.00		1,052.00	833.00	4,313.00	11.00	5.00	5.00	34.05	753.00		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000179	Buffalo Bayou Watershed Study	Watershed wide study using latest data, including MAAPnext models and Atlas 14 rainfall. Study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and benefit and cost metrics for each project.	06000001, 06000010, 06000015	Fort Bend, Harris	12040104	120401040703, 120401040402, 120401040104, 120401040305, 120401040302, 120401040203, 120401040303, 120401040304, 120401040401, 120401040701	06000095, 06000084, 06000074, 06000082, 06000079, 06000077, 06000080, 06000081, 06000083, 06000093	Watershed Planning	101.50835	Riverine	Harris County Flood Control District (HCFCD)	Fort Bend, Harris, Harris County Flood Control District, Hedwig Village, Hilshire Village, Hunters Creek Village, Piney Point Village, Houston, Bunker Hill Village, Spring Valley Village	Y
061000180	Brays Bayou Watershed Study	Watershed wide study using latest data, including MAAPnext models and Atlas 14 rainfall. Study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and benefit and cost metrics for each project	06000001, 06000010, 06000015	Fort Bend, Harris	12040104	120401040703, 120401040402, 120401040305, 120401040303, 120401040401, 120401040502	06000095, 06000084, 06000082, 06000080, 06000083, 06000086	Watershed Planning	128.20668	Riverine	Harris County Flood Control District (HCFCD)	Fort Bend, Harris, Harris County Flood Control District, Houston, Bellaire, Meadows Place, Southside Place, West University Place, Stafford	Y



Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000179	Buffalo Bayou Watershed Study	\$ 500,000.00		1,999.00	1,533.00	44,477.00	34.00	0.00	0.00	38.71	17.90		
061000180	Brays Bayou Watershed Study	\$ 620,000.00		40,950.00	37,646.00	361,848.00	594.00	2.00	2.00	537.14	45.19		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000181	Cypress Creek Watershed Study	Watershed wide study using latest data, including MAAPnext models and Atlas 14 rainfall. Study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and benefit and cost metrics for each project	06000001, 06000010, 06000015	Harris, Waller	12040102, 12040104	120401020102, 120401020103, 120401020104, 120401020106, 120401020101, 120401020105, 120401020107, 120401020201, 120401020210, 120401020212, 120401020213, 120401040601, 120401040102, 120401040201, 120401040101, 120401040203, 120401040301, 120401040602, 120401040603	06000027, 06000028, 06000029, 06000031, 06000026, 06000030, 06000032, 06000033, 06000042, 06000044, 06000045, 06000087, 06000072, 06000075, 06000071, 06000077, 06000078, 06000088, 06000089	Watershed Planning	266.21205	Riverine	Harris County Flood Control District (HCFCD)	Harris, Waller, Harris County Flood Control District, Waller, Houston, Tomball, Prairie View	Y
061000182	Hunting Bayou Watershed Study	Watershed wide study using latest data, including MAAPnext models and Atlas 14 rainfall. Study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and benefit and cost metrics for each project	06000001, 06000010, 06000015	Harris	12040104	120401040703, 120401040604, 120401040606, 120401040304, 120401040701	06000095, 06000090, 06000092, 06000081, 06000093	Watershed Planning	30.872289	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Galena Park, Jacinto City, Houston	Y

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000181	Cypress Creek Watershed Study	\$ 1,230,000.00		4,162.00	3,210.00	22,497.00	89.00	18.00	18.00	109.48	1,659.60		
061000182	Hunting Bayou Watershed Study	\$ 500,000.00		6,244.00	5,220.00	34,523.00	98.00	6.00	6.00	101.51	21.13		



Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000183	Sims Bayou Watershed Study	Watershed wide study using latest data, including MAAPnext models and Atlas 14 rainfall. Study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and benefit and cost metrics for each project	06000001, 06000010, 06000015	Fort Bend, Harris	12040104, 12040204	120401040703, 120401040402, 120401040502, 120401040501, 120402040400, 120402040100	06000095, 06000084, 06000086, 06000085, 06000109, 06000106	Watershed Planning	93.214971	Riverine	Harris County Flood Control District (HCFCD)	Fort Bend, Harris, Harris County Flood Control District, South Houston, Missouri City, Houston, Pasadena, Stafford	Y
061000184	White Oak Bayou Watershed Study	Watershed wide study using latest data, including MAAPnext models and Atlas 14 rainfall. Study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and benefit and cost metrics for each project	06000001, 06000010, 06000015	Harris	12040102, 12040104	120401020104, 120401020106, 120401040601, 120401040305, 120401040302, 120401040604, 120401040303, 120401040304, 120401040301, 120401040701	06000029, 06000031, 06000087, 06000082, 06000079, 06000090, 06000080, 06000081, 06000078, 06000093	Watershed Planning	110.70228	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Jersey Village, Houston	Y

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000183	Sims Bayou Watershed Study	\$ 470,000.00		5,858.00	4,884.00	34,907.00	74.00	10.00	10.00	102.97	50.51		
061000184	White Oak Bayou Watershed Study	\$ 800,000.00		17,103.00	14,706.00	127,789.00	149.00	4.00	4.00	280.87	28.37		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000185	Upper Greens Bayou Watershed Study	Watershed wide study using latest data, including MAAPnext models and Atlas 14 rainfall. Study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and benefit and cost metrics for each project	06000001, 06000010, 06000015	Harris	12040101, 12040102, 12040104	120401010502, 120401010501, 120401020106, 120401020107, 120401040605, 120401040703, 120401040601, 120401040702, 120401040302, 120401040604, 120401040606, 120401040304, 120401040301, 120401040602, 120401040603, 120401040701	06000025, 06000024, 06000031, 06000032, 06000091, 06000095, 06000087, 06000094, 06000079, 06000090, 06000092, 06000081, 06000078, 06000088, 06000089, 06000093	Watershed Planning	210.13953	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston, Humble	Y
061000186	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 including Atlas 14 rainfalls	06000001, '06000015	Harris	12040104	120401040402	06000084	Project Planning	3.341123	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston, Southside Place, West University Place	N
061000187	Brays Bayou Restore Channel Conveyance Capacity Along D115-00-00	Further study of channel improvements from partnership project to restore channel conveyance including Atlas 14 rainfalls	06000001, '06000015	Harris	12040104	120401040401	06000083	Project Planning	6.317276	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston, Bellaire	N



Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000185	Upper Greens Bayou Watershed Study	\$ 980,000.00		24,236.00	18,993.00	155,940.00	418.00	17.00	17.00	320.20	161.00		
061000186	Brays Bayou - Poor Farm Ditch	\$ 690,000.00		3,295.00	3,096.00	25,842.00	34.00	0.00	0.00	37.21	0.39		
061000187	Brays Bayou Restore Channel Conveyance Capacity Along D115-00-00	\$ 1,020,000.00		5,579.00	5,255.00	34,583.00	75.00	0.00	0.00	59.07	0.97		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000188	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	06000001, '06000015	Fort Bend, Harris	12040104	120401040103, 120401040104, 120401040303, 120401040401	06000073, 06000074, 06000080, 06000083	Project Planning	34.139023	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000191	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	06000001, '06000015	Harris, Waller, Montgomery, Grimes	12040101, 12040102, 12040104	120401040103, 120401040104, 120401040303, 120401040401	06000073, 06000074, 06000080, 06000083	Project Planning	384.39296	Riverine	Harris County Flood Control District (HCFCD)	Harris, Waller, Montgomery County, Grimes, Harris County Flood Control District,	N
061000192	White Oak Bayou - E127-00-00 Fork	Further study of channel improvements from partnership project to restore channel conveyance including Atlas 14 rainfalls.	06000001, '06000015	Harris	12040104	120401040302, 120401040301	06000079, 06000078	Project Planning	2.233715	Riverine	City of Jersey Village	Harris, Harris County Flood Control District	N
061000194	White Oak Bayou - Turkey Gully E106-00-00	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Further study of channel improvements from partnership project to restore channel conveyance including Atlas 14 rainfalls	06000001, '06000015	Harris	12040104	120401040304	06000081	Project Planning	6.78428	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000196	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	06000015	Harris	12040104	120401040304	06000081	Project Planning	0.916348	Riverine	City of Houston	Harris, Harris County Flood Control District, Houston	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000188	Brays Bayou - Partnership Project with Fort Bend County on Right-of-Way Acquisition, Design, and Construction of General Drainage Improvements along Clodine Ditch	\$ 1,020,000.00		328.00	254.00	1,703.00	1.00	0.00	0.00	19.76	217.60		
061000191	Spring Creek - Construction of a Reservoir along Spring Creek	\$ 870,000.00		4,191.00	3,436.00	23,627.00	44.00	27.00	27.00	106.13	231.65		
061000192	White Oak Bayou - E127-00-00 Fork	\$ 150,000.00		395.00	378.00	1,285.00	0.00	0.00	0.00	6.23	0.00		
061000194	White Oak Bayou - Turkey Gully E106-00-00	\$ 1,330,000.00		2,540.00	2,287.00	12,780.00	6.00	0.00	0.00	26.56	2.17		
061000196	White Oak Bayou - General Drainage Improvements along E105-00-00	\$ 120,000.00		160.00	151.00	431.00	0.00	0.00	0.00	3.44	0.67		



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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000197	Harris County Wide Investigation of City of Houston Properties for Conversion to Stormwater Detention Basins	Further study for design and construction of stormwater detention basins on various City of Houston properties could reduce the risk of flooding in the area	06000010, 06000015	Harris	12040101, 12040102, 12040103, 12040104, 12040203, 12040204	120401020104, 120401020106, 120401040601, 120401040305, 120401040302, 120401040604, 120401040303, 120401040304, 120401040301, 120401040701	06000029, 06000031, 06000087, 06000082, 06000079, 06000090, 06000080, 06000081, 06000078, 06000093	Project Planning	1770.8157	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston, Liberty County Water Control District 1	N
061000201	Little Cypress Creek L109-00-00	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040102	120401020104, 120401020105, 120401020210	06000029, 06000030, 06000042	Project Planning	5.57682	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District	N
061000202	Little Cypress Creek L113-00-00	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040102	120401020104, 120401020105, 120401020205	06000029, 06000030, 06000037	Project Planning	14.956413	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District	N
061000203	Little Cypress Creek L103-00-00	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040102	120401020104, 120401020106, 120401020105	06000029, 06000031, 06000030	Project Planning	5.236028	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000197	Harris County Wide Investigation of City of Houston Properties for Conversion to Stormwater Detention Basins	\$ 500,000.00		143,642.00	120,807.00	976,798.00	2,332.00	89.00	89.00	2,407.73	5,993.47		
061000201	Little Cypress Creek L109-00-00	\$ 100,000.00		178.00	104.00	520.00	0.00	0.00	0.00	1.74	12.91		
061000202	Little Cypress Creek L113-00-00	\$ 300,000.00		182.00	162.00	472.00	0.00	3.00	3.00	3.90	7.98		
061000203	Little Cypress Creek L103-00-00	\$ 100,000.00		116.00	92.00	265.00	8.00	0.00	0.00	2.72	4.35		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000204	Greens Bayou - P130-05-02	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040104	120401040602	06000088	Project Planning	0.13498	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000205	Greens Bayou - P142-00-00	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040104	120401040603	06000089	Project Planning	1.634576	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000207	San Jacinto River - G103-46-00	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040101	120401010501	06000024	Project Planning	58.506496	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston, Humble	N
061000208	San Jacinto River - G103-33-04	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040101	120401010501	06000024	Project Planning	1.127667	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000209	San Jacinto River - G103-36-00	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040101	120401010501	06000024	Project Planning	58.506496	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston, Humble	N
061000213	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	06000010	Montgomery	12040101	120401010207, 120401010401, 120401010402	06000011, 06000020, 06000021	Watershed Planning	100.07219	Riverine	City of Conroe	Montgomery County, Conroe	N
061000214	April Sound Subdivision Evaluation	Detailed analysis to be completed for the entire development using detailed storm sewer modeling	06000010, 06000015	Montgomery	12040101	120401010207, 120401010401, 120401010402	06000011, 06000020, 06000021	Project Planning	100.07219	Urban/Local	City of Conroe	Montgomery County, Conroe, San Jacinto River Authority	N



Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000204	Greens Bayou - P130-05-02	\$ 100,000.00		94.00	84.00	130.00	0.00	0.00	0.00	1.39	0.00		
061000205	Greens Bayou - P142-00-00	\$ 100,000.00		997.00	601.00	5,085.00	7.00	0.00	0.00	23.49	1.49		
061000207	San Jacinto River - G103-46-00	\$ 1,000,000.00		3,840.00	3,193.00	22,355.00	61.00	1.00	1.00	81.05	113.95		
061000208	San Jacinto River - G103-33-04	\$ 100,000.00		248.00	221.00	1,580.00	1.00	0.00	0.00	3.74	0.00		
061000209	San Jacinto River - G103-36-00	\$ 1,000,000.00		3,840.00	3,193.00	22,355.00	61.00	1.00	1.00	81.05	113.95		
061000213	City of Conroe Riverine Study and Mapping Improvements	\$ 500,000.00		3,465.00	2,633.00	14,964.00	46.00	18.00	18.00	83.78	98.03		
061000214	April Sound Subdivision Evaluation	\$ 1,700,000.00		3,465.00	2,633.00	14,964.00	46.00	18.00	18.00	83.78	98.03		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000215	City of Conroe Downtown Master Drainage Plan	Full as-built storm sewer inventory survey and a full drainage study recommended.	06000010, 06000015	Montgomery	12040101	120401010207, 120401010401, 120401010402	06000011, 06000020, 06000021	Project Planning	100.07219	Urban/Local	City of Conroe	Montgomery County, Conroe	N
061000216	Greens Bayou - P103-00-00	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040104	120401040703, 120401040702, 120401040606	06000095, 06000094, 06000092	Project Planning	5.545373	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000217	Barker - T101-00-00	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040104	120401040102, 120401040104, 120401040203, 120401040303	06000072, 06000074, 06000077, 06000080	Project Planning	17.28323	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Katy, Houston	N
061000218	Barker - T103-00-00	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040104	120401040102, 120401040104, 120401040203	06000072, 06000074, 06000077	Project Planning	4.068017	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Katy, Houston	N
061000219	Buffalo Bayou - W158-00-00	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040104	120401040303	06000080	Project Planning	2.815745	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000220	Buffalo Bayou - W130-00-00	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040104	120401040305, 120401040303	06000082, 06000080	Project Planning	2.790941	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000221	Buffalo Bayou - W163-00-00	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040104	120401040303	06000080	Project Planning	1.38954	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000215	City of Conroe Downtown Master Drainage Plan	\$ 750,000.00		3,465.00	2,633.00	14,964.00	46.00	18.00	18.00	83.78	98.03		
061000216	Greens Bayou - P103-00-00	\$ 100,000.00		391.00	197.00	1,750.00	5.00	0.00	0.00	6.69	15.07		
061000217	Barker - T101-00-00	\$ 300,000.00		41.00	34.00	521.00	0.00	0.00	0.00	2.58	8.62		
061000218	Barker - T103-00-00	\$ 100,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.63	1.03		
061000219	Buffalo Bayou - W158-00-00	\$ 100,000.00		72.00	63.00	311.00	0.00	0.00	0.00	0.98	0.72		
061000220	Buffalo Bayou - W130-00-00	\$ 100,000.00		27.00	15.00	4,290.00	0.00	0.00	0.00	0.67	0.24		
061000221	Buffalo Bayou - W163-00-00	\$ 100,000.00		70.00	68.00	226.00	0.00	0.00	0.00	0.86	0.44		



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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000222	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	06000010	Fort Bend	12040204	120402040400	06000109	Watershed Planning	2.5980589	Urban/Local	City of Arcola	Fort Bend, City of Arcola	N
061000223	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	06000010	Chambers , Harris	12040104, 12040203	120401040705, 120401040706, 120402030105, 120402030106, 120402030200	06000097, 06000098, 06000103, 06000104, 06000105	Watershed Planning	38.049965	Urban/Local	City of Baytown	Chambers, Harris, Harris County Flood Control District, Baytown,	Y
061000224	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	06000010	Chambers	12040203	120402030200	06000105	Watershed Planning	4.462683	Urban/Local	City of Beach City	Chambers, Beach City	Y
061000225	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 acheive a desired level of service / flood protection.	06000010	Harris	12040104	120401040402, 120401040401	06000084, 06000083	Watershed Planning	3.5849535	Urban/Local	City of Bellaire	Harris, Harris County Flood Control, Bellaire	Y
061000226	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	06000010	Brazoria	12040204	120402040100	06000106	Watershed Planning	2.058597	Urban/Local	City of Brookside Village	Brazoria, West Brazoria County Drainage District, Brookside Village	Y
061000227	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	06000010	Harris	12040104	120401040303	06000080	Watershed Planning	1.4367104	Urban/Local	City of Bunker Hill Village	Harris, Harris County Flood Control, City of Bunker Hill Village	N
061000228	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	06000010	Galveston , Harris	12040204	120402040100	06000106	Watershed Planning	0.710432	Urban/Local	City of Clear Lake Shores	Galveston, Harris, Harris County Flood Control District, Clear Lake Shores	Y

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000222	City of Arcola Master Drainage Plan	\$ 200,000.00		41.00	37.00	39.00	0.00	0.00	0.00	0.22	1.23		
061000223	City of Baytown Master Drainage Plan	\$ 520,000.00		1,185.00	975.00	8,063.00	36.00	1.00	1.00	50.19	78.83		
061000224	City of Beach City Master Drainage Plan	\$ 240,000.00		3.00	2.00	6.00	0.00	0.00	0.00	0.19	4.72		
061000225	City of Bellaire Master Drainage Plan	\$ 1,500,000.00	Bonds/Other Financing (25%)	5,879.00	5,539.00	37,604.00	71.00	0.00	0.00	70.91	0.15		
061000226	City of Brookside Village Master Drainage Plan	\$ 190,000.00		809.00	743.00	1,607.00	0.00	0.00	0.00	12.39	3.07		
061000227	City of Bunker Hill Village Master Drainage Plan	\$ 170,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000228	City of Clear Lake Shores Master Drainage Plan	\$ 140,000.00		633.00	529.00	3,407.00	4.00	0.00	0.00	8.82	0.00		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000229	City of 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	06000010	Liberty	12040103	120401030201, 120401030108, 120401030109, 120401030203, 120401030202, 120401030401	06000056, 06000053, 06000054, 06000058, 06000057, 06000069	Watershed Planning	18.736551	Urban/Local	City of Cleveland	Liberty, City of Cleveland	N
061000230	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	06000010	San Jacinto	12040103	120401030307	06000067	Watershed Planning	1.8528904	Urban/Local	City of Coldspring	San Jacinto, City of Coldspring	N
061000232	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	06000010	Montgomery	12040101, 12040103	120401010403, 120401030102, 120401030104	06000022, 06000047, 06000049	Watershed Planning	2.699701	Urban/Local	City of Cut and Shoot	Montgomery County, City of Cut and Shoot	N
061000233	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	06000010	Liberty	12040203	120402030104, 120402030103, 120402030102, 120402030101	06000102, 06000101, 06000100, 06000099	Watershed Planning	30.584026	Urban/Local	City of Dayton	Liberty, City of Dayton, Liberty County Water Control District 1	N
061000234	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	06000010	Harris	12040104, 12040204	120401040703, 120401040706, 120402040100	06000095, 06000098, 06000106	Watershed Planning	10.529747	Urban/Local	City of Deer Park	Harris, Harris County Flood Control District, Deer Park	Y
061000235	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	06000010	Galveston	12040204	120402040200	06000107	Watershed Planning	10.295134	Urban/Local	City of Dickinson	Galveston, Dickinson	Y
061000236	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	06000010	Harris	12040204	120402040100	06000106	Watershed Planning	0.7062582	Urban/Local	City of El Lago	Harris, City of El Lago	N



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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000229	City of Cleveland Master Drainage Plan	\$ 400,000.00		261.00	133.00	1,267.00	0.00	1.00	1.00	27.33	28.88		
061000230	City of Coldspring Master Drainage Plan	\$ 180,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000232	City of Cut and Shoot Master Drainage Plan	\$ 210,000.00		90.00	52.00	258.00	0.00	0.00	0.00	1.71	2.87		
061000233	City of Dayton Master Drainage Plan	\$ 480,000.00		32.00	26.00	74.00	0.00	0.00	0.00	0.93	65.60		
061000234	City of Deer Park Master Drainage Plan	\$ 320,000.00		469.00	241.00	8,356.00	6.00	1.00	1.00	9.12	4.11		
061000235	City of Dickinson Master Drainage Plan	\$ 320,000.00		5,624.00	4,851.00	22,231.00	78.00	10.00	10.00	78.89	37.73		
061000236	City of El Lago Master Drainage Plan	\$ 140,000.00		743.00	698.00	3,033.00	9.00	0.00	0.00	9.35	0.44		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000237	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	06000010	Galveston , Harris	12040204	120402040200, 120402040100	06000107, 06000106	Watershed Planning	20.829157	Urban/Local	City of Friendswood	Galveston, Harris, Harris County Flood Control District, Friendswood	Y
061000238	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	06000010	Fort Bend	12040104	120401040103	06000073	Watershed Planning	12.058439	Urban/Local	City of Fulshear	Fort Bend, Fulshear	Y
061000239	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	06000010	Harris	12040104	120401040703, 120401040701	06000095, 06000093	Watershed Planning	4.901337	Urban/Local	City of Galena Park	Harris, Harris County Flood Control District, Galena Park	Y
061000241	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	06000010	Harris	12040104	120401040303	06000080	Watershed Planning	0.943083	Urban/Local	City of Hedwig Village	Harris, Harris County Flood Control District, Hedwig Village	Y
061000242	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	06000010	Brazoria	12040204	120402040400	06000109	Watershed Planning	0.438197	Urban/Local	Hillcrest Village	Brazoria, West Brazoria County Drainage District, Hillcrest	Y
061000243	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	06000010	Harris	12040104	120401040303	06000080	Watershed Planning	0.266485	Urban/Local	City of Hilshire Village	Harris, Harris County Flood Control District, Hilshire Village	Y
061000244	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	06000010	Brazoria, Galveston	12040204	120402040300, 120402040200	06000108, 06000107	Watershed Planning	91.212044	Urban/Local	City of Hitchcock	Brazoria, Galveston, West Brazoria County Drainage District, Hitchcock	Y
061000246	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	06000010	Harris	12040101, 12040102, 12040104	120401010501, 120401020213, 120401040602	06000024, 06000045, 06000088	Watershed Planning	9.788425	Urban/Local	City of Humble	Harris, Harris County Flood Control District, Humble	Y
061000247	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	06000010	Harris	12040104	120401040303	06000080	Watershed Planning	1.950556	Urban/Local	City of Hunters Creek Village	Harris, Harris County Flood Control District, Hunters Creek Village	Y

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061000237	City of Friendswood Master Drainage Plan	\$ 750,000.00		1,680.00	1,601.00	5,467.00	2.00	5.00	5.00	37.72	18.37		
061000238	City of Fulshear Master Drainage Plan	\$ 340,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000239	City of Galena Park Master Drainage Plan	\$ 250,000.00		205.00	156.00	712.00	9.00	0.00	0.00	2.63	3.44		
061000241	City of Hedwig Village Master Drainage Plan	\$ 150,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000242	City of Hillcrest Master Drainage Plan	\$ 130,000.00		128.00	121.00	333.00	1.00	0.00	0.00	2.07	0.13		
061000243	City of Hilshire Village Master Drainage Plan	\$ 110,000.00		1.00	1.00	3.00	0.00	0.00	0.00	0.01	0.00		
061000244	City of Hitchcock Master Drainage Plan	\$ 720,000.00		2,655.00	2,270.00	6,415.00	12.00	0.00	0.00	72.51	884.17		
061000246	City of Humble Master Drainage Plan	\$ 320,000.00		652.00	489.00	4,566.00	5.00	1.00	1.00	16.95	25.14		
061000247	City of Hunters Creek Village Master Drainage Plan	\$ 190,000.00		108.00	103.00	369.00	1.00	0.00	0.00	1.16	0.00		



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061000248	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	06000010	Walker	12040101, 12040103	120401010104, 120401010102, 120401010201, 120401010202, 120401030302	06000004, 06000002, 06000005, 06000006, 06000062	Watershed Planning	43.244799	Urban/Local	City of Huntsville	Walker, Huntsville	Y
061000249	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	06000010	Brazoria	12040204	120402040400	06000109	Watershed Planning	9.419504	Urban/Local	City of Iowa Colony	Brazoria, West Brazoria County Drainage District, Iowa Colony	Y
061000250	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	06000010	Harris	12040104	120401040701	06000093	Watershed Planning	1.8480029	Urban/Local	City of Jacinto City	Harris, City of Jacinto City	N
061000251	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	06000010	Galveston	12040204	120402040300	06000108	Watershed Planning	0.7148475	Urban/Local	City of Jamaica Beach	Galveston, City of Jamaica Beach	N
061000252	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	06000010	Harris	12040104	120401040302, 120401040301	06000079, 06000078	Watershed Planning	3.416892	Urban/Local	City of Jersey Village	Harris, Harris County Flood Control District, Jersey Village	Y
061000253	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	06000010	Fort Bend, Harris, Waller	12040104	120401040102, 120401040103, 120401040104, 120401040101, 120401040203	06000072, 06000073, 06000074, 06000071, 06000077	Watershed Planning	14.52125	Urban/Local	City of Katy	Fort Bend, Harris, Waller, Harris County Flood Control District, Katy,	Y
061000254	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	06000010	Galveston , Chambers	12040204	120402040200, 120402040100	06000107, 06000106	Watershed Planning	1.907838	Urban/Local	City of Kemah	Galveston, Kemah	Y

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061000248	City of Huntsville Master Drainage Plan	\$ 349,000.00		114.00	96.00	349.00	1.00	1.00	1.00	2.70	9.26		
061000249	City of Iowa Colony Master Drainage Plan	\$ 310,000.00		1,162.00	1,030.00	1,448.00	1.00	0.00	0.00	28.46	338.53		
061000250	City of Jacinto City Master Drainage Plan	\$ 180,000.00		10.00	5.00	41.00	0.00	0.00	0.00	0.13	0.00		
061000251	City of Jamaica Beach Master Drainage Plan	\$ 140,000.00		1,276.00	1,238.00	395.00	4.00	0.00	0.00	13.81	2.82		
061000252	City of Jersey Village Master Drainage Plan	\$ 220,000.00		896.00	864.00	8,252.00	12.00	0.00	0.00	13.99	0.00		
061000253	City of Katy Master Drainage Plan	\$ 360,000.00		546.00	444.00	2,216.00	8.00	4.00	4.00	10.03	21.65		
061000254	City of Kemah Master Drainage Plan	\$ 190,000.00		562.00	425.00	3,492.00	7.00	0.00	0.00	12.01	0.72		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000255	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	06000001, 06000011, 06000012, 06000015	Galveston	12040204	120402040200	06000107	Watershed Planning	14.232827	Urban/Local	City of La Marque	Galveston, La Marque	Y
061000256	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	06000001, 06000011, 06000012, 06000015	Harris	12040104, 12040204	120401040706, 120402040100	06000098, 06000106	Watershed Planning	19.833013	Urban/Local	City of La Porte	Harris, Harris County Flood Control District, La Porte	Y
061000257	City of League 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	06000001, 06000011, 06000012, 06000015	Galveston , Harris	12040204	120402040200, 120402040100	06000107, 06000106	Watershed Planning	52.888211	Urban/Local	City of League City	Galveston, League City	Y
061000258	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	06000001, 06000011, 06000012, 06000015	Brazoria	12040204	120402040400	06000109	Watershed Planning	1.090863	Urban/Local	City of Liverpool	Brazoria, Liverpool	Y
061000259	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	06000010	Montgomery	12040102	120401020204, 120401020207, 120401020208	06000036, 06000039, 06000040	Watershed Planning	2.8702002	Urban/Local	City of Magnolia	Montgomery County, City of Magnolia	N
061000260	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	06000001, 06000011, 06000012, 06000015	Brazoria	12040204	120402040200, 120402040400, 120402040100	06000107, 06000109, 06000106	Watershed Planning	27.409399	Urban/Local	City of Manvel	Brazoria, Manvel	Y
061000261	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	06000010	Fort Bend	12040104	120401040401	06000083	Watershed Planning	0.930411	Urban/Local	City of Meadows Place	Fort Bend, Meadows Place	Y
061000262	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	06000010	Fort Bend	12040104, 12040204	120401040401, 120401040501, 120402040400	06000083, 06000085, 06000109	Watershed Planning	30.291001	Urban/Local	City of Missouri City	Fort Bend, City of Missouri City	N
061000263	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	06000010	Chambers	12040203	120402030105, 120402030104	06000103, 06000102	Watershed Planning	17.19752	Urban/Local	City of Mont Belvieu	Chambers, City of Mont Belvieu, Liberty County Water Control District 1	N



Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000255	City of La Marque Master Drainage Plan	\$ 360,000.00		829.00	767.00	1,612.00	8.00	1.00	1.00	31.11	37.85		
061000256	City of La Porte Master Drainage Plan	\$ 410,000.00		2,533.00	2,250.00	10,336.00	32.00	0.00	0.00	54.14	15.27		
061000257	City of League City Master Drainage Plan	\$ 580,000.00		5,251.00	4,835.00	20,978.00	25.00	2.00	2.00	104.56	1,308.19		
061000258	City of Liverpool Master Drainage Plan	\$ 160,000.00		130.00	110.00	104.00	0.00	0.00	0.00	3.32	5.29		
061000259	City of Magnolia Master Drainage Plan	\$ 210,000.00		23.00	19.00	60.00	0.00	0.00	0.00	0.57	0.43		
061000260	City of Manvel Master Drainage Plan	\$ 460,000.00		1,250.00	966.00	8,190.00	8.00	0.00	0.00	43.31	178.80		
061000261	City of Meadows Place Master Drainage Plan	\$ 150,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000262	City of Missouri City Master Drainage Plan	\$ 470,000.00		213.00	162.00	1,060.00	1.00	0.00	0.00	2.62	2.09		
061000263	City of Mont Belvieu Master Drainage Plan	\$ 390,000.00		30.00	11.00	30.00	0.00	0.00	0.00	1.54	5.10		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000264	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	06000010	Montgomery	12040101	120401010307, 120401010206	06000018, 06000010	Watershed Planning	5.0976169	Urban/Local	City of Montgomery	Montgomery County, City of Montgomery	N
061000265	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	06000010	Harris	12040104, 12040204	120401040706, 120402040100	06000098, 06000106	Watershed Planning	2.224312	Urban/Local	City of Morgan's Point	Harris, Harris County Flood Control District, Morgan's Point	Y
061000266	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	06000010	Galveston , Harris	12040204	120402040100	06000106	Watershed Planning	1.738752	Urban/Local	City of Nassau Bay	Galveston, Harris, Harris County Flood Control District, Nassau Bay	Y
061000267	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	06000010	Walker	12040103	120401030101	06000046	Watershed Planning	2.2131193	Urban/Local	City of New Waverly	Walker, City of New Waverly	N
061000268	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	06000010	Liberty	12040103	120401030201, 120401030401	06000056, 06000069	Watershed Planning	1.9085858	Urban/Local	City of North Cleveland	Liberty, City of North Cleveland	N
061000269	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	06000010	Montgomery	12040101, 12040102	120401010404, 120401020212	06000023, 06000044	Watershed Planning	1.440423	Urban/Local	City of Oak Ridge North	Montgomery County, Oak Ridge North	Y
061000270	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	06000010	Montgomery	12040101	120401010207, 120401010401	06000011, 06000020	Watershed Planning	1.0879521	Urban/Local	City of Panorama Village	Montgomery County, City of Panorama Village	N
061000271	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	06000010	Harris	12040104, 12040204	120401040703, 120401040502, 120402040100	06000095, 06000086, 06000106	Watershed Planning	44.584056	Urban/Local	City of Pasadena	Harris, Harris County Flood Control District, Pasadena	Y
061000272	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	06000010	Montgomery	12040103	120401030109, 120401030402	06000054, 06000070	Watershed Planning	2.398274	Urban/Local	City of Patton Village	Montgomery County, Patton Village	Y

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000264	City of Montgomery Master Drainage Plan	\$ 250,000.00		27.00	18.00	11.00	0.00	0.00	0.00	0.86	2.72		
061000265	City of Morgan's Point Master Drainage Plan	\$ 190,000.00		48.00	46.00	330.00	0.00	0.00	0.00	0.07	1.00		
061000266	City of Nassau Bay Master Drainage Plan	\$ 180,000.00		1,022.00	945.00	7,735.00	19.00	0.00	0.00	17.52	0.51		
061000267	City of New Waverly Master Drainage Plan	\$ 190,000.00		23.00	18.00	19.00	0.00	0.00	0.00	0.48	0.89		
061000268	City of North Cleveland Master Drainage Plan	\$ 190,000.00		52.00	37.00	44.00	0.00	0.00	0.00	3.30	6.17		
061000269	City of Oak Ridge North Master Drainage Plan	\$ 170,000.00		85.00	73.00	578.00	0.00	0.00	0.00	1.04	0.00		
061000270	City of Panorama Village Master Drainage Plan	\$ 160,000.00		77.00	65.00	136.00	10.00	0.00	0.00	0.66	0.22		
061000271	City of Pasadena Master Drainage Plan	\$ 550,000.00		3,591.00	2,839.00	26,560.00	58.00	6.00	6.00	73.85	81.95		
061000272	City of Patton Village Master Drainage Plan	\$ 200,000.00		441.00	374.00	537.00	0.00	0.00	0.00	14.43	4.10		



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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000274	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	06000010	Harris	12040104	120401040303	06000080	Watershed Planning	2.125369	Urban/Local	City of Piney Point Village	Harris, Harris County Flood Control District, Piney Point Village	Y
061000275	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	06000010	Grimes	12040101, 12040102	120401010305, 120401010306, 120401020206	06000016, 06000017, 06000038	Watershed Planning	1.9800558	Urban/Local	City of Plantersville	Grimes, City of Plantersville	N
061000276	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	06000010	Liberty	12040103	120401030402	06000070	Watershed Planning	3.6130924	Urban/Local	City of Plum Grove	Liberty, City of Plum Grove	N
061000277	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	06000010	Waller	12040102	120401020101	06000026	Watershed Planning	7.3209222	Urban/Local	City of Prairie View	Waller, City of Prairie View	N
061000278	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	06000010	Montgomery	12040103	120401030109, 120401030402	06000054, 06000070	Watershed Planning	2.19068	Urban/Local	City of Roman Forest	Montgomery County, Roman Forest	Y
061000279	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	06000010	Galveston	12040204	120402040300, 120402040200	06000108, 06000107	Watershed Planning	17.035296	Urban/Local	City of Santa Fe	Galveston, Santa Fe	Y
061000280	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	06000010	Galveston , Harris, Chambers	12040204	120402040100	06000106	Watershed Planning	21.192059	Urban/Local	City of Seabrook	Galveston, Harris, Harris County Flood Control District, Seabrook	Y
061000281	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	06000010	Montgomery	12040101, 12040102	120401010402, 120401010404, 120401020211, 120401020212	06000021, 06000023, 06000043, 06000044	Watershed Planning	1.946162	Urban/Local	City of Shenandoah	Montgomery County, Shenandoah	Y
061000282	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	06000010	Chambers , Harris	12040204	120402040100	06000106	Watershed Planning	0.9583577	Urban/Local	City of Shoreacres	Harris, Harris County Flood Control, City of Shoreacres	N

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000274	City of Piney Point Village Master Drainage Plan	\$ 190,000.00		129.00	124.00	989.00	1.00	0.00	0.00	1.27	0.40		
061000275	City of Plantersville Master Drainage Plan	\$ 190,000.00		28.00	16.00	34.00	0.00	0.00	0.00	0.60	0.94		
061000276	City of Plum Grove Master Drainage Plan	\$ 230,000.00		363.00	267.00	589.00	1.00	0.00	0.00	8.98	9.22		
061000277	City of Prairie View Master Drainage Plan	\$ 290,000.00		32.00	25.00	46.00	0.00	0.00	0.00	1.65	15.27		
061000278	City of Roman Forest Master Drainage Plan	\$ 190,000.00		86.00	73.00	270.00	0.00	0.00	0.00	3.18	0.00		
061000279	City of Santa Fe Master Drainage Plan	\$ 380,000.00		400.00	306.00	798.00	1.00	9.00	9.00	4.12	12.12		
061000280	City of Seabrook Master Drainage Plan	\$ 420,000.00		3,570.00	3,177.00	16,087.00	59.00	0.00	0.00	52.06	11.47		
061000281	City of Shenandoah Master Drainage Plan	\$ 190,000.00		10.00	9.00	45.00	0.00	0.00	0.00	0.02	0.26		
061000282	City of Shoreacres Master Drainage Plan	\$ 150,000.00		801.00	787.00	2,456.00	3.00	1.00	1.00	17.16	0.22		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000283	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	06000010	Harris	12040104	120401040703, 120401040502	06000095, 06000086	Watershed Planning	3.036131	Urban/Local	City of South Houston	Harris, Harris County Flood Control District, South Houston	Y
061000284	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	06000010	Harris	12040104	120401040402	06000084	Watershed Planning	0.2484638	Urban/Local	City of Southside Place	Harris, City of Southside Place	N
061000285	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	06000010	Montgomery	12040103	120401030109, 120401030402, 120401030401	06000054, 06000070, 06000069	Watershed Planning	3.056112	Urban/Local	City of Splendora	Montgomery County, Splendora	Y
061000286	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	06000010	Harris	12040104	120401040303	06000080	Watershed Planning	1.21107	Urban/Local	City of Spring Valley Village	Harris, Harris County Flood Control District, Spring Valley Village	Y
061000287	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	06000010	Fort Bend, Harris	12040104, 12040204	120401040401, 120401040501, 120402040400	06000083, 06000085, 06000109	Watershed Planning	7.020157	Urban/Local	City of Stafford	Fort Bend, Harris, Harris County Flood Control District, Stafford,	Y
061000288	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	06000010	Montgomery	12040102	120401020204, 120401020208	06000036, 06000040	Watershed Planning	1.1749288	Urban/Local	City of Stagecoach	Montgomery County, Stagecoach	N
061000289	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	06000010	Fort Bend	12040104	120401040401	06000083	Watershed Planning	42.756285	Urban/Local	City of Sugar Land	Fort Bend, Sugar Land	Y
061000290	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	06000010	Harris	12040204	120402040100	06000106	Watershed Planning	1.3029077	Urban/Local	City of Taylor Lake Village	Harris, Harris County Flood Control, City of Taylor Lake Village	N
061000291	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	06000010	Chambers, Galveston	12040204	120402040200	06000107	Watershed Planning	185.07809	Urban/Local	City of Texas City	Galveston, Texas City	Y

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000283	City of South Houston Master Drainage Plan	\$ 210,000.00		1,422.00	945.00	9,644.00	22.00	0.00	0.00	19.35	0.00		
061000284	City of Southside Place Master Drainage Plan	\$ 110,000.00		500.00	476.00	2,317.00	5.00	0.00	0.00	3.84	0.00		
061000285	City of Splendora Master Drainage Plan	\$ 210,000.00		231.00	119.00	522.00	0.00	0.00	0.00	8.37	1.67		
061000286	City of Spring Valley Village Master Drainage Plan	\$ 160,000.00		22.00	22.00	70.00	0.00	0.00	0.00	0.56	0.00		
061000287	City of Stafford Master Drainage Plan	\$ 280,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000288	City of Stagecoach Master Drainage Plan	\$ 160,000.00		18.00	16.00	28.00	0.00	0.00	0.00	0.76	0.01		
061000289	City of Sugar Land Master Drainage Plan	\$ 540,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000290	City of Taylor Lake Village Master Drainage Plan	\$ 170,000.00		852.00	838.00	2,000.00	0.00	0.00	0.00	13.32	0.00		
061000291	City of Texas City Master Drainage Plan	\$ 950,000.00		1,285.00	701.00	3,595.00	16.00	3.00	3.00	46.22	569.91		



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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000292	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	06000010	Galveston	12040204	120402040200	06000107	Watershed Planning	1.5865	Urban/Local	City of Tiki Island	Galveston, Tiki Island	Y
061000293	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	06000010	Grimes	12040102	120401020203, 120401020206	06000035, 06000038	Watershed Planning	2.0043346	Urban/Local	City of Todd Mission	Grimes, City of Todd Mission	N
061000294	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	06000010	Harris	12040102	120401020106, 120401020205, 120401020210, 120401020209	06000031, 06000037, 06000042, 06000041	Watershed Planning	13.040888	Urban/Local	City of Tomball	Harris, Harris County Flood Control, City of Tomball	N
061000295	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	06000010	Harris, Waller	12040102	120401020101, 120401020105, 120401020201	06000026, 06000030, 06000033	Watershed Planning	3.7085369	Urban/Local	City of Waller	Waller, City of Waller	N
061000296	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	06000010	Harris	12040204	120402040100	06000106	Watershed Planning	6.597666	Urban/Local	City of Webster	Harris, Harris County Flood Control District, Webster	Y
061000297	City of West University Place Master Drainage Plan	Study to refine Master Drainage Plan and Projects using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Harris	12040104	120401040402	06000084	Watershed Planning	1.9971792	Urban/Local	City of West University Place	Harris, Harris County Flood Control, City of West University Place	N
061000298	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	06000010	Montgomery	12040101, 12040103	120401010403, 120401010401, 120401010204, 120401010205, 120401030102, 120401030101	06000022, 06000020, 06000008, 06000009, 06000047, 06000046	Watershed Planning	4.71567	Urban/Local	City of Willis	Montgomery County, City of Willis	N

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000292	City of Tiki Island Master Drainage Plan	\$ 180,000.00		1,006.00	978.00	1,721.00	6.00	0.00	0.00	9.64	3.91		
061000293	City of Todd Mission Master Drainage Plan	\$ 190,000.00		17.00	11.00	19.00	0.00	0.00	0.00	0.00	1.12		
061000294	City of Tomball Master Drainage Plan	\$ 350,000.00		47.00	29.00	607.00	0.00	0.00	0.00	3.71	4.60		
061000295	City of Waller Master Drainage Plan	\$ 100,000.00	General Revenue (0%)	149.00	83.00	666.00	4.00	7.00	7.00	5.33	47.50		
061000296	City of Webster Master Drainage Plan	\$ 280,000.00		209.00	164.00	2,809.00	0.00	1.00	1.00	8.48	18.74		
061000297	City of West University Place Master Drainage Plan	\$ 190,000.00	Internal CIP Dollars	940.00	923.00	4,613.00	6.00	0.00	0.00	11.89	0.00		
061000298	City of Willis Master Drainage Plan	\$ 250,000.00		61.00	18.00	372.00	0.00	0.00	0.00	1.66	0.92		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000299	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.	06000010	Montgomery	12040103	120401030105, 120401030109	06000050, 06000054	Watershed Planning	2.000628	Urban/Local	Woodbranch Village	Montgomery County, Woodbranch	Y
061000300	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.	06000010	Montgomery	12040101	120401010402	06000021	Watershed Planning	0.084055	Urban/Local	Town of Woodloch	Montgomery County, Woodloch	Y
061000301	Brazoria Flood Mapping Updates	County wide study to produce flood mapping updates including Atlas 14 rainfall.	06000010	Brazoria	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Watershed Planning	1481.8698	Riverine, Urban/Local	Brazoria County	Brazoria, West Brazoria County Drainage District, Pearland, Manvel, Iowa Colony, Alvin, Brookside Village, Hillcrest, Liverpool, Hitchcock	Y
061000302	Chambers Flood Mapping Updates	County wide study to produce flood mapping updates including Atlas 14 rainfall.	06000010	Chambers	12040203	120402030105, 120402030104, 120402030106, 120402030200	06000103, 06000102, 06000104, 06000105	Watershed Planning	865.54779	Riverine, Urban/Local	Chambers County	Chambers, Morgan's Point, Pasadena, Baytown, Beach City, Texas City, Kemah, Seabrook, Shoreacres, Mont Belvieu, Southeast Texas Flood Control District, Liberty County Water Control District 1	Y

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000299	City of Woodbranch Master Drainage Plan	\$ 190,000.00		197.00	189.00	398.00	0.00	0.00	0.00	3.53	0.00		
061000300	Town of Woodloch Master Drainage Plan	\$ 50,000.00		85.00	80.00	233.00	0.00	0.00	0.00	1.01	0.00		
061000301	Brazoria Flood Mapping Updates	\$ 6,440,000.00		18,848.00	14,344.00	65,547.00	248.00	0.00	0.00	328.06	8,584.16		
061000302	Chambers Flood Mapping Updates	\$ 631,000.00		151.00	56.00	797.00	0.00	0.00	0.00	7.30	354.08		



Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000304	Galveston Flood Mapping Updates	County wide study to produce flood mapping updates including Atlas 14 rainfall.	06000010	Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Watershed Planning	664.94832	Riverine, Urban/Local	Galveston County	Galveston, Nassau Bay, Bayou Vista, Clear Lake Shores, Galveston, Jamaica Beach, Friendswood, Hitchcock, La Marque, League City, Santa Fe, Texas City, Kemah, Tiki Island, Dickinson, Seabrook	Y
061000305	Grimes Flood Mapping Updates	County wide study to produce flood mapping updates including Atlas 14 rainfall.	06000010	Grimes	12040101, 12040102	120401010101, 120401010301, 120401010302, 120401010303, 120401010103, 120401010304, 120401010305, 120401010306, 120401020202, 120401020203, 120401020207, 120401020206	06000001, 06000012, 06000013, 06000014, 06000003, 06000015, 06000016, 06000017, 06000034, 06000035, 06000039, 06000038	Watershed Planning	798.87368	Riverine, Urban/Local	Grimes County	Grimes, Plantersville, Todd Mission	Y

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000304	Galveston Flood Mapping Updates	\$ 2,960,000.00		48,570.00	42,185.00	171,395.00	681.00	30.00	30.00	910.35	3,412.02		
061000305	Grimes Flood Mapping Updates	\$ 3,530,000.00		145.00	76.00	120.00	0.00	1.00	1.00	10.81	151.27		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000307	Montgomery Flood Mapping Updates	County wide study to produce flood mapping updates including Atlas 14 rainfall.	06000010	Montgomery	12040101, 12040102, 12040103	120401010101, 120401010301, 120401010302, 120401010303, 120401010103, 120401010304, 120401010305, 120401010306, 120401020202, 120401020203, 120401020207, 120401020206	06000001, 06000012, 06000013, 06000014, 06000003, 06000015, 06000016, 06000017, 06000034, 06000035, 06000039, 06000038	Watershed Planning	1072.611	Riverine, Urban/Local	Montgomery County	Montgomery, Montgomery County Drainage District 9, Patton Village, Roman Forest, Shenandoah, Woodbranch, Cleveland, Magnolia, Oak Ridge North, Panorama Village, Willis, Stagecoach, Houston, Cut and Shoot, Conroe, Splendora, Woodloch, Montgomery, Tomball	Y

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000307	Montgomery Flood Mapping Updates	\$ 4,700,000.00		21,195.00	16,931.00	67,706.00	125.00	72.00	72.00	409.33	852.39		



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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000308	San Jacinto Flood Mapping Updates	County wide study to produce flood mapping updates including Atlas 14 rainfall.	06000010	San Jacinto	12040103	120401030201, 120401030108, 120401030106, 120401030107, 120401030303, 120401030305, 120401030202, 120401030301, 120401030302, 120401030304, 120401030306, 120401030401, 120401030307, 120401030308	06000056, 06000053, 06000051, 06000052, 06000063, 06000065, 06000057, 06000061, 06000062, 06000064, 06000066, 06000069, 06000067, 06000068	Watershed Planning	625.68533	Riverine, Urban/Local	San Jacinto County	San Jacinto	Y

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000308	San Jacinto Flood Mapping Updates	\$ 1,419,000.00		1,028.00	933.00	1,376.00	0.00	1.00	1.00	47.92	63.12		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000309	Walker Flood Mapping Updates	County wide study to produce flood mapping updates including Atlas 14 rainfall.	06000010	Walker	12040101, 12040103	120401010104, 120401010101, 120401010102, 120401010103, 120401010201, 120401010202, 120401010203, 120401010204, 120401030101, 120401030106, 120401030303, 120401030305, 120401030301, 120401030302	060000004, 060000001, 060000002, 060000003, 060000005, 060000006, 060000007, 060000008, 060000046, 060000051, 060000063, 060000065, 060000061, 060000062	Watershed Planning	797.83651	Riverine, Urban/Local	Walker County	Walker, Huntsville, New Waverly	Y

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000309	Walker Flood Mapping Updates	\$ 1,747,000.00		505.00	437.00	657.00	1.00	2.00	2.00	25.43	180.46		



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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000310	Waller Flood Mapping Updates	County wide study to produce flood mapping updates including Atlas 14 rainfall.	06000010	Waller	12040102, 12040104	120401020102, 120401020103, 120401020204, 120401020101, 120401020201, 120401020202, 120401020203, 120401020205, 120401020207, 120401020206, 120401040102, 120401040103, 120401040101, 120401040203	06000027, 06000028, 06000036, 06000026, 06000033, 06000034, 06000035, 06000037, 06000039, 06000038, 06000072, 06000073, 06000071, 06000077	Watershed Planning	515.94831	Riverine, Urban/Local	Waller County	Waller, Katy, Waller, Houston, Prairie View	Y
061000311	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.	06000015	Brazoria, Galveston	12040204	120402040200	06000107	Project Planning	253.17076	Coastal, Urban/Local	City of Galveston	Galveston, City of Galveston	N
061000312	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.	06000015	Harris	12040104	120401040102, 120401040202, 120401040104, 120401040203, 120401040303	06000072, 06000076, 06000074, 06000077, 06000080	Project Planning	15.50179	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000310	Waller Flood Mapping Updates	\$ 2,300,000.00	General Revenue (10%)	1,067.00	708.00	2,410.00	6.00	19.00	19.00	40.91	1,357.32		
061000311	37th Street, Galveston, Drainage Project	\$ 30,000.00		40,153.00	34,123.00	150,807.00	648.00	26.00	26.00	722.77	2,683.21		
061000312	Addicks Reservoir - Right-Of-Way Acquisition, Design and Construction of a Stormwater Detention Basin on South Mayde Creek	\$ 30,000.00		692.00	638.00	3,061.00	12.00	0.00	0.00	11.65	27.29		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000313	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.	06000015	Harris	12040104	120401040102, 120401040202, 120401040104, 120401040203, 120401040303	06000072, 06000076, 06000074, 06000077, 06000080	Project Planning	15.50179	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000315	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.	06000015	Harris	12040104	120401040202, 120401040104, 120401040203, 120401040303	06000076, 06000074, 06000077, 06000080	Project Planning	13.198958	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000317	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.	06000015	Harris	12040104	120401040704	06000096	Project Planning	0.318941	Urban/Local	Harris County	Harris, Harris County Flood Control District	N
061000318	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.	06000015	Fort Bend, Harris, Waller	12040104	120401040102, 120401040103, 120401040104, 120401040101, 120401040401	06000072, 06000073, 06000074, 06000071, 06000083	Project Planning	46.099246	Riverine	Fort Bend County Drainage District	Fort Bend, Harris, Waller, Harris County Flood Control District	N

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061000313	Addicks Reservoir - Design and Construction of Dinner Creek Stormwater Detention Basin	\$ 30,000.00		692.00	638.00	3,061.00	12.00	0.00	0.00	11.65	27.29		
061000315	Addicks Reservoir - Right-Of-Way Acquisition, Design and Construction of Channel Conveyance Improvements, Bypass Channel, and Detention for South Mayde Creek	\$ 30,000.00		944.00	854.00	5,217.00	21.00	0.00	0.00	15.66	19.43		
061000317	Arcadian Gardens Subdivision Drainage Improvements	\$ 30,000.00		5.00	4.00	5.00	0.00	0.00	0.00	0.01	0.00		
061000318	Fort Bend County Willow Fork Channel Improvements	\$ 30,000.00		404.00	288.00	1,450.00	10.00	2.00	2.00	8.47	80.03		



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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000319	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.	06000015	Harris	12040204	120402040100	06000106	Project Planning	4.791723	Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, La Porte, Pasadena	N
061000320	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.	06000013, 060000140 6000015	Harris	12040102	120401020103	06000028	Project Planning	2.111615	Riverine, Urban/Local	Coastal Prairie Conserva ncy	Harris, Harris County Flood Control District	N
061000321	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,	06000015	Harris	12040204	120402040100	06000106	Project Planning	1.092433	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Pasadena	N
061000322	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.	06000015	Harris	12040104	120401040704	06000096	Project Planning	0.514018	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District	N
061000323	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	06000015	Harris	12040104, 12040204	120401040706, 120402040100	06000098, 06000106	Project Planning	9.773826	Riverine, Urban/Local	Harris County	Harris, Harris County Flood Control District, La Porte, Pasadena	N
061000324	Barker Reservoir Flood Risk Reduction and Park Project	Study to further the proposed project. FIF application information unavailable.	06000015	Fort Bend, Harris	12040104	120401040103	06000073	Project Planning	27.075978	Riverine, Urban/Local	Willow Fork Drainage District	Harris, Harris County Flood Control District, Houston	N
061000325	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.	06000015	Harris	12040104	120401040606	06000092	Project Planning	1.413715	Urban/Local	Harris County	Harris, Harris County Flood Control District, Houston	N

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061000319	Armand Bayou - Design and Construction of the B509-03-00 and B509-04-00 Stormwater Detention Basins	\$ 30,000.00		63.00	16.00	468.00	0.00	0.00	0.00	2.80	6.16		
061000320	Warren Lake and Dam Retrofit	\$ 30,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	183.19		
061000321	Armand Bayou Watershed- Basin Expansion and Extension and H&H Study (Phases 1 + 2)	\$ 30,000.00		371.00	291.00	2,154.00	0.00	0.00	0.00	3.84	0.00		
061000322	Jackson Bayou Watershed Planning Project- Immediate: First Street Crossing Mitigation	\$ 30,000.00		111.00	83.00	598.00	8.00	0.00	0.00	1.40	1.74		
061000323	B106-WP01 & WP02 for Armand Bayou Watershed	\$ 30,000.00		473.00	344.00	2,199.00	0.00	0.00	0.00	7.05	20.93		
061000324	Barker Reservoir Flood Risk Reduction and Park Project	\$ 30,000.00		115.00	105.00	306.00	2.00	0.00	0.00	1.41	20.45		
061000325	Beaumont Place Subdivision Drainage Improvement Phase 2	\$ 30,000.00		103.00	94.00	868.00	3.00	0.00	0.00	1.58	4.21		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000326	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.	06000015	Harris	12040104, 12040204	120401040703, 120402040100	06000095, 06000106	Project Planning	2.070646	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Pasadena	N
061000327	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.	06000015	Harris	12040104	120401040302, 120401040303	06000079, 06000080	Project Planning	6.697842	Urban/Local	City of Piney Point Village	Harris, Harris County Flood Control District, Houston	N
061000328	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.	06000003, 06000004, 06000015	Fort Bend, Harris	12040104	120401040401	06000083	Project Planning	22.877639	Urban/Local	Harris County Flood Control District (HCFCD)	Fort Bend, Harris, Harris County Flood Control District	N
061000329	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	06000015	Harris	12040104, 12040204	120401040703, 120401040502, 120402040100	06000095, 06000086, 06000106	Project Planning	4.42385	Riverine, Urban/Local	Harris County	Harris, Harris County Flood Control District, Pasadena	N
061000330	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.	06000015	Harris	12040104, 12040204	120401040703, 120401040502, 120402040100	06000095, 06000086, 06000106	Project Planning	4.42385	Urban/Local	Harris County	Harris, Harris County Flood Control District, Pasadena	N
061000331	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.	06000015	Harris	12040104, 12040204	120401040703, 120401040502, 120402040100	06000095, 06000086, 06000106	Project Planning	4.42385	Urban/Local	Harris County	Harris, Harris County Flood Control District, Pasadena	N

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000326	I100-WP01 Vince Bayou Watershed Planning Project Recommendation	\$ 30,000.00		766.00	571.00	3,202.00	5.00	0.00	0.00	7.61	0.22		
061000327	Blalock Road Drainage Improvement Project	\$ 30,000.00		35.00	25.00	365.00	1.00	0.00	0.00	0.29	0.00		
061000328	Brays Bayou - Keegans Bayou (D118-00-00) Flood Risk Reduction	\$ 30,000.00		2,549.00	2,257.00	30,383.00	27.00	0.00	0.00	39.29	3.39		
061000329	I100-WP06 for Vince Bayou Watershed Planning Project	\$ 30,000.00		948.00	709.00	4,153.00	8.00	1.00	1.00	14.08	1.55		
061000330	I100-WP10 for Vince Bayou Watershed Planning Project	\$ 30,000.00		948.00	709.00	4,153.00	8.00	1.00	1.00	14.08	1.55		
061000331	I100-WP07 for Vince Bayou Watershed Planning Project	\$ 30,000.00		948.00	709.00	4,153.00	8.00	1.00	1.00	14.08	1.55		



Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000332	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	06000015	Harris	12040104, 12040204	120401040703, 120401040502, 120402040100	06000095, 06000086, 06000106	Project Planning	4.42385	Urban/Local	Harris County	Harris, Harris County Flood Control District, Pasadena	N
061000333	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.	06000015	Harris	12040104	120401040702, 120401040606	06000094, 06000092	Project Planning	0.7363	Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000334	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"	06000015	Harris	12040104	120401040705, 120401040706	06000097, 06000098	Project Planning	6.220677	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Baytown	N
061000335	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"	06000015	Harris	12040104	120401040705, 120401040706	06000097, 06000098	Project Planning	7.320117	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Baytown	N
061000336	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	06000015	Harris	12040104	120401040705	06000097	Project Planning	1.389927	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Baytown	N
061000337	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.	06000015	Harris	12040102	120401020209	06000041	Project Planning	0.301652	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Tomball	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000332	I100-WP11 for Vince Bayou Watershed Planning Project	\$ 30,000.00		948.00	709.00	4,153.00	8.00	1.00	1.00	14.08	1.55		
061000333	Carpenters Planning Study Cloverleaf Community Flood Risk Reduction Project (Phase 1 and 2)	\$ 30,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000334	Goose Creek Flood Risk Reduction Phase 1	\$ 30,000.00		1,883.00	1,509.00	9,371.00	64.00	1.00	1.00	32.82	73.13		
061000335	Goose Creek Flood Risk Reduction Phase 2	\$ 30,000.00		1,883.00	1,509.00	9,371.00	64.00	1.00	1.00	32.82	73.13		
061000336	Goose Creek Flood Risk Reduction Phase 3	\$ 30,000.00		1,883.00	1,509.00	9,371.00	64.00	1.00	1.00	32.82	73.13		
061000337	Spring Creek Watershed Plan-Recommended Alternative for PA-02: J131-01-00 Storm Sewer improvements & channel modification	\$ 30,000.00		6.00	6.00	7.00	0.00	1.00	1.00	0.34	0.00		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000338	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.	06000015	Harris	12040102	120401020106, 120401020105, 120401020210	06000031, 06000030, 06000042	Project Planning	55.366101	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000339	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.	06000015	Harris	12040102	120401020106, 120401020105, 120401020210	06000031, 06000030, 06000042	Project Planning	55.366101	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000340	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	06000015	Harris	12040102	120401020106, 120401020105, 120401020210	06000031, 06000030, 06000042	Project Planning	55.366101	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000341	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	06000015	Harris	12040102	120401020106, 120401020105, 120401020210	06000031, 06000030, 06000042	Project Planning	55.366101	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000342	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	06000015	Harris	12040102	120401020106, 120401020105, 120401020210	06000031, 06000030, 06000042	Project Planning	55.366101	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000343	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.	06000015	Harris	12040204	120402040100	06000106	Project Planning	1.133011	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Morgan's Point, La Porte	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000338	Willow Creek Watershed Plan- Immediate: Selective Clearing BNRR to Mouth	\$ 30,000.00	2018 Bond Fund	828.00	581.00	2,443.00	6.00	5.00	5.00	24.85	55.81		
061000339	Willow Creek Watershed Plan - M120 Detention/Preservation Site	\$ 30,000.00	2018 Bond Fund	828.00	581.00	2,443.00	6.00	5.00	5.00	24.85	55.81		
061000340	Willow Creek Watershed Plan- FM2920 Stormwater Detention Basin	\$ 30,000.00		828.00	581.00	2,443.00	6.00	5.00	5.00	24.85	55.81		
061000341	Willow Creek Watershed Plan- Kuykendahl Basin	\$ 30,000.00		828.00	581.00	2,443.00	6.00	5.00	5.00	24.85	55.81		
061000342	Willow Creek Watershed Plan- M121 Basin Stormwater Detention Basin	\$ 30,000.00		828.00	581.00	2,443.00	6.00	5.00	5.00	24.85	55.81		
061000343	Galveston Bay Watershed Plan- PA01 (N+6) Channel & Crossing Improvements	\$ 30,000.00		259.00	234.00	648.00	7.00	0.00	0.00	5.10	0.14		



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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000344	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.	06000015	Harris	12040102, 12040104	120401020104, 120401020106, 120401040601, 120401040302, 120401040604, 120401040303, 120401040304, 120401040301	06000029, 06000031, 06000087, 06000079, 06000090, 06000080, 06000081, 06000078	Project Planning	79.44794	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000345	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.	06000015	Harris	12040104	120401040705	06000097	Project Planning	0.488588	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District	N
061000346	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.	06000015	Harris	12040104	120401040705	06000097	Project Planning	0.488588	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District	N
061000347	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.	06000015	Harris	12040104	120401040705	06000097	Project Planning	0.488588	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000344	White Oak Bayou - Design and Construction of Woodland Trails Stormwater Detention Basin	\$ 30,000.00		11,098.00	9,581.00	90,865.00	90.00	0.00	0.00	163.80	24.31		
061000345	Spring Gully Watershed Planning Project- Project Phase I	\$ 30,000.00		346.00	266.00	917.00	0.00	0.00	0.00	2.41	0.00		
061000346	Spring Gully Watershed Planning Project- Project Phase II	\$ 30,000.00		346.00	266.00	917.00	0.00	0.00	0.00	2.41	0.00		
061000347	Spring Gully Watershed Planning Project- Project Phase III	\$ 30,000.00		346.00	266.00	917.00	0.00	0.00	0.00	2.41	0.00		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000348	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.	06000015	Harris	12040104, 12040204	120401040706, 120402040100	06000098, 06000106	Project Planning	0.751132	Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, La Porte	N
061000349	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.	06000015	Harris	12040104, 12040204	120401040706, 120402040100	06000098, 06000106	Project Planning	2.014503	Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, La Porte	N
061000350	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.	06000015	Chambers , Harris	12040204	120402040100	06000106	Project Planning	0.499986	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Pasadena, Seabrook	N
061000353	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.	06000015	Harris	12040102, 12040104	120401020106, 120401020107, 120401020210, 120401020212, 120401020213, 120401040601, 120401040602, 120401040603	06000031, 06000032, 06000042, 06000044, 06000045, 06000087, 06000088, 06000089	Project Planning	92.806157	Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000348	Galveston Bay - Right-of-Way Acquisition, Design and Construction of General Drainage Improvements Along F216-00-00	\$30,000.00		215.00	124.00	604.00	0.00	0.00	0.00	4.09	0.22		
061000349	Galveston Bay - Right-of-Way Acquisition, Design and Construction of General Drainage Improvements Along F101-06-00	\$30,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000350	Galveston Bay Watershed Plan-PA04 (S+4) Crossing Improvements	\$30,000.00		190.00	185.00	391.00	0.00	0.00	0.00	2.76	0.41		
061000353	TC Jester Detention Basin	\$30,000.00		2,995.00	2,413.00	18,540.00	53.00	4.00	4.00	59.86	44.07		



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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000354	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.	06000015	Harris	12040104	120401040605, 120401040601, 120401040302, 120401040604, 120401040606, 120401040304, 120401040603, 120401040701	06000091, 06000087, 06000079, 06000090, 06000092, 06000081, 06000089, 06000093	Project Planning	44.447506	Other	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000355	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.	06000015	Harris	12040104	120401040605, 120401040601, 120401040302, 120401040604, 120401040606, 120401040304, 120401040603, 120401040701	06000091, 06000087, 06000079, 06000090, 06000092, 06000081, 06000089, 06000093	Project Planning	44.447506	Other	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000354	Halls Bayou Drainage Project Bond C-26 & C-27	\$ 30,000.00		1,432.00	1,009.00	5,511.00	8.00	1.00	1.00	9.65	0.00		
061000355	Halls Bayou Drainage Project Bond C-01	\$ 30,000.00		3,188.00	2,296.00	10,940.00	13.00	1.00	1.00	31.84	0.22		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000356	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.	06000015	Harris	12040102, 12040104	120401020106, 120401020107, 120401020210, 120401020212, 120401020213, 120401040601, 120401040602, 120401040603	06000031, 06000032, 06000042, 06000044, 06000045, 06000087, 06000088, 06000089	Project Planning	92.806157	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000357	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.	06000015	Harris	12040102, 12040104	120401020104, 120401020106, 120401020105, 120401020107, 120401020210, 120401020213, 120401040601, 120401040201, 120401040301, 120401040602	06000029, 06000031, 06000030, 06000032, 06000042, 06000045, 06000087, 06000075, 06000078, 06000088	Project Planning	118.36246	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N

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061000356	Westador Stormwater Detention Basin	\$ 30,000.00		2,995.00	2,413.00	18,540.00	53.00	4.00	4.00	59.86	44.07		
061000357	Cypress Creek Implementation Plan - Various Detention Sites	\$ 30,000.00		4,100.00	3,398.00	21,959.00	73.00	3.00	3.00	80.20	75.16		



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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000358	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.	06000015	Harris	12040102	120401020103, 120401020104, 120401020106, 120401020101, 120401020105, 120401020205, 120401020210	06000028, 06000029, 06000031, 06000026, 06000030, 06000037, 06000042	Project Planning	52.098532	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000360	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.	06000015	Harris, Montgomery	12040101, 12040103	120401010501, 120401010404, 120401030110, 120401030402	06000024, 06000023, 06000055, 06000070	Project Planning	21.653692	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000361	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.	06000015	Harris	12040101, 12040103	120401010501, 120401010404, 120401030110, 120401030402	06000024, 06000023, 06000055, 06000070	Project Planning	21.653692	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000362	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	06000015	Harris	12040104, 12040203	120401040705, 120402030104	06000097, 06000102	Project Planning	0.2278	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000363	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	06000015	Harris	12040104, 12040203	120401040705, 120402030104	06000097, 06000102	Project Planning	0.2278	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N



Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000364	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.	06000015	Harris	12040104	120401040502	06000086	Project Planning	1.392267	Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000365	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)	06000015	Harris	12040101, 12040102, 12040104	120401010502, 120401010501, 120401020106, 120401020107, 120401040605, 120401040703, 120401040601, 120401040702, 120401040302, 120401040604, 120401040606, 120401040301, 120401040602, 120401040603, 120401040701	06000025, 06000024, 06000031, 06000032, 06000091, 06000095, 06000087, 06000094, 06000079, 06000090, 06000092, 06000078, 06000088, 06000089, 06000093	Project Planning	165.69202	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District	N

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000364	Sims Bayou C116 Storm Sewer Improvement (C116-00-00-P001) From Mykawa Road to Telephone Road	\$ 30,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000365	Greens Bayou (P100-00-00) Mid-Reach Channel Conveyance Improvements From John F. Kennedy Blvd to Veterans Memorial Drive (Ultimate Project (Alternative 3) )	\$ 30,000.00		3,247.00	2,193.00	58,451.00	72.00	0.00	0.00	70.92	14.15		



Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000366	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.	06000015	Harris	12040104	120401040604, 120401040603	06000090, 06000089	Project Planning	1.019924	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District	N
061000367	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	06000015	Chambers , Harris	12040104, 12040203	120401040706, 120402030106, 120402030200	06000098, 06000104, 06000105	Project Planning	28.41582	Urban/Local	Harris County Flood Control District (HCFCD)	Chambers, Harris, Harris County Flood Control District	N
061000368	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	06000015	Harris, Liberty	12040103, 12040104, 12040203	120401030205, 120401040705, 120401040706, 120401040704, 120402030105, 120402030104, 120402030103, 120402030106, 120402030102, 120402030200, 120402030101	06000060, 06000097, 06000098, 06000096, 06000103, 06000102, 06000101, 06000104, 06000100, 06000105, 06000099	Project Planning	198.30912	Riverine	Harris County Flood Control District (HCFCD)	Chambers, Harris, Liberty, Harris County Flood Control District	N

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000366	Greens Bayou - Planning, Right-of-Way Acquisition, Design and Construction of Channel Conveyance Improvements along P138-01-01	\$ 30,000.00		7.00	5.00	74.00	0.00	0.00	0.00	0.02	0.00		
061000367	Cedar Bayou Flood Risk Reduction Study - Property Acquisition in segment from SH 146 to Galveston Bay along Cedar Bayou (Q100-00-00)	\$ 30,000.00		230.00	174.00	1,046.00	7.00	0.00	0.00	7.62	47.40		
061000368	Cedar Bayou Flood Risk Reduction Study - Q130 Channel improvements from Crosby Eastgate Rd. to Q100 Confluence	\$ 30,000.00		174.00	138.00	241.00	0.00	0.00	0.00	3.13	141.08		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000369	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	06000015	Chambers , Harris	12040104, 12040203	120401040706, 120402030105, 120402030106	06000098, 06000103, 06000104	Project Planning	18.714066	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Chambers, Harris, Harris County Flood Control District, Baytown	N
061000370	City of Pasadena - Hurricane Harvey Drainage Mitigation Project 1	Further study to develop this project into a FMP. FIF application information unavailable.	06000015	Harris	12040101, 12040102, 12040103, 12040104, 12040203, 12040204	120401040706, 120402030105, 120402030106	06000098, 06000103, 06000104	Project Planning	1770.8157	Other	City of Pasadena	Harris, Harris County Flood Control District, Pasadena, Liberty County Water Control District 1	N
061000371	City of Pasadena - Hurricane Harvey Drainage Mitigation Project 2	Further study to develop this project into a FMP. FIF application information unavailable.	06000015	Harris	12040101, 12040102, 12040103, 12040104, 12040203, 12040204	120401010501, 120401030205, 120401030402	06000024, 06000060, 06000070	Project Planning	1770.8157	Other	City of Pasadena	Harris, Harris County Flood Control District, Pasadena, Liberty County Water Control District 1	N
061000372	City of Pasadena - Hurricane Harvey Drainage Mitigation Project 3	Further study to develop this project into a FMP. FIF application information unavailable.	06000015	Harris	12040101, 12040102, 12040103, 12040104, 12040203, 12040204	120401010501, 120401030205, 120401030402	06000024, 06000060, 06000070	Project Planning	1770.8157	Other	City of Pasadena	Harris, Harris County Flood Control District, Pasadena, Liberty County Water Control District 1	N
061000373	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.	06000015	Harris, Montgomery	12040102	120401020106, 120401020205, 120401020210, 120401020209	06000031, 06000037, 06000042, 06000041	Project Planning	13.040888	Urban/Local	City of Tomball	Harris, Harris County Flood Control District, Tomball	N

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000369	Cedar Bayou Flood Risk Reduction Study - Property Acquisition in segment from IH-10 to SH 146 along Cedar Bayou (Q100-00-00)	\$ 30,000.00		319.00	260.00	1,274.00	0.00	0.00	0.00	5.25	25.33		
061000370	City of Pasadena - Hurricane Harvey Drainage Mitigation Project 1	\$ 30,000.00		143,642.00	120,807.00	976,798.00	2,332.00	89.00	89.00	2,407.73	5,993.47		
061000371	City of Pasadena - Hurricane Harvey Drainage Mitigation Project 2	\$ 30,000.00		143,642.00	120,807.00	976,798.00	2,332.00	89.00	89.00	2,407.73	5,993.47		
061000372	City of Pasadena - Hurricane Harvey Drainage Mitigation Project 3	\$ 30,000.00		143,642.00	120,807.00	976,798.00	2,332.00	89.00	89.00	2,407.73	5,993.47		
061000373	City of Tomball Drainage Improvements	\$ 30,000.00		47.00	29.00	607.00	0.00	0.00	0.00	3.71	4.60		



Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000374	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	06000015	Harris	12040103, 12040104, 12040203	120401030205, 120401040705, 120401040706, 120401040704, 120402030105, 120402030104, 120402030103, 120402030106, 120402030102, 120402030200, 120402030101	06000060, 06000097, 06000098, 06000096, 06000103, 06000102, 06000101, 06000104, 06000100, 06000105, 06000099	Project Planning	198.30912	Riverine, Urban/Local	Harris County Flood Control District (HCFCF)	Harris, Liberty, Harris County Flood Control District	N
061000376	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	06000015	Chambers , Harris, Liberty	12040103, 12040104, 12040203	120401030205, 120401040705, 120401040706, 120401040704, 120402030105, 120402030104, 120402030103, 120402030106, 120402030102, 120402030200, 120402030101	06000060, 06000097, 06000098, 06000096, 06000103, 06000102, 06000101, 06000104, 06000100, 06000105, 06000099	Project Planning	198.30912	Riverine, Urban/Local	Harris County Flood Control District (HCFCF)	Harris, Liberty, Harris County Flood Control District, Liberty County Water Control District 1	N

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000374	Cedar Bayou Flood Risk Reduction Study - Q128 Channel Improvements from US 90 to Q100 Confluence	\$ 30,000.00		142.00	81.00	199.00	0.00	0.00	0.00	6.25	160.96		
061000376	Cedar Bayou Flood Risk Reduction Study - Channel improvements from US 90 to FM 1942	\$ 30,000.00		228.00	119.00	345.00	0.00	0.00	0.00	11.84	891.78		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000379	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	06000015	Harris, Liberty	12040103, 12040104, 12040203	120401030205, 120401040705, 120401040706, 120401040704, 120402030105, 120402030104, 120402030103, 120402030106, 120402030102, 120402030200, 120402030101	06000060, 06000097, 06000098, 06000096, 06000103, 06000102, 06000101, 06000104, 06000100, 06000105, 06000099	Project Planning	198.30912	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Liberty, Harris County Flood Control District, Liberty County Water Control District 1	N
061000384	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.	06000015	Fort Bend, Harris	12040104	120401040401	06000083	Project Planning	95.570721	Urban/Local	City of Houston	Harris, Harris County Flood Control District, Houston	N
061000388	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.	06000015	Montgomery	12040103	120401030109, 120401030402	06000054, 06000070	Project Planning	2.19068	Riverine	Montgomery County	Montgomery County, Roman Forest	N
061000389	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.	06000015	Harris	12040104	120401040302, 120401040304	06000079, 06000081	Project Planning	6.897598	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000379	Cedar Bayou Flood Risk Reduction Study - Channel improvements upstream of FM 1960	\$ 30,000.00		75.00	51.00	147.00	0.00	0.00	0.00	4.92	463.48		
061000384	Houston Braeburn Glen Area Flood Mitigation	\$ 30,000.00		32,129.00	29,534.00	267,993.00	448.00	1.00	1.00	412.20	41.83		
061000388	Roman Forest Boulevard Bridge Elevation Project	\$ 30,000.00		86.00	73.00	270.00	0.00	0.00	0.00	3.18	0.00		
061000389	White Oak - SPT and E116 (E116-00-00) Improvements : PA01 thru PA-05	\$ 30,000.00		1,174.00	1,074.00	4,852.00	7.00	0.00	0.00	14.80	4.95		



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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000394	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.	06000015	Harris	12040104	120401040605, 120401040601, 120401040302, 120401040604, 120401040606, 120401040304, 120401040603, 120401040701	06000091, 06000087, 06000079, 06000090, 06000092, 06000081, 06000089, 06000093	Project Planning	44.40505	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000395	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.	06000015	Harris	12040104	120401040605, 120401040601, 120401040302, 120401040604, 120401040606, 120401040304, 120401040603, 120401040701	06000091, 06000087, 06000079, 06000090, 06000092, 06000081, 06000089, 06000093	Project Planning	44.40505	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000394	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-08-00	\$ 30,000.00		39.00	36.00	64.00	2.00	0.00	0.00	0.67	0.05		
061000395	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-09-00	\$ 30,000.00		260.00	211.00	446.00	3.00	0.00	0.00	4.39	0.19		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000396	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.	06000015	Harris	12040104	120401040605, 120401040601, 120401040302, 120401040604, 120401040606, 120401040304, 120401040603, 120401040701	06000091, 06000087, 06000079, 06000090, 06000092, 06000081, 06000089, 06000093	Project Planning	44.40505	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000397	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-23-00 and P118-23-02	Study to develop a BCR required for this project to become a FMP. Would reduce flood risk for 300+ structures, size of floodplain by 200+ acres. Facilitates future drainage projects by more outfall depth.	06000015	Harris	12040104	120401040605, 120401040601, 120401040302, 120401040604, 120401040606, 120401040304, 120401040603, 120401040701	06000091, 06000087, 06000079, 06000090, 06000092, 06000081, 06000089, 06000093	Project Planning	44.40505	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000396	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-21-00	\$ 30,000.00		3,555.00	3,132.00	12,360.00	35.00	1.00	1.00	29.31	1.67		
061000397	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-23-00 and P118-23-02	\$ 30,000.00		1,432.00	1,009.00	5,511.00	8.00	1.00	1.00	9.65	0.00		



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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000399	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.	06000015	Harris	12040104	120401040605, 120401040601, 120401040302, 120401040604, 120401040606, 120401040304, 120401040603, 120401040701	06000091, 06000087, 06000079, 06000090, 06000092, 06000081, 06000089, 06000093	Project Planning	44.40505	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000400	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.	06000015	Harris	12040104	120401040605, 120401040601, 120401040302, 120401040604, 120401040606, 120401040304, 120401040603, 120401040701	06000091, 06000087, 06000079, 06000090, 06000092, 06000081, 06000089, 06000093	Project Planning	44.40505	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000402	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.	06000015	Harris	12040104	120401040702	06000094	Project Planning	0.848558	Riverine, Urban/Local	Harris County	Harris, Harris County Flood Control District, Houston	N

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000399	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-25-00 & P118-25-01	\$ 30,000.00		3,188.00	2,296.00	10,940.00	13.00	1.00	1.00	31.84	0.22		
061000400	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-27-00	\$ 30,000.00		3,188.00	2,296.00	10,940.00	13.00	1.00	1.00	31.84	0.22		
061000402	Carpenters (N100-00-00) Channel Improvements	\$ 30,000.00		153.00	148.00	531.00	3.00	0.00	0.00	2.02	0.00		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000403	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.	06000015	Harris	12040104	120401040605, 120401040601, 120401040302, 120401040604, 120401040606, 120401040304, 120401040603, 120401040701	06000091, 06000087, 06000079, 06000090, 06000092, 06000081, 06000089, 06000093	Project Planning	44.40505	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000404	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.	06000015	Harris	12040104	120401040605, 120401040601, 120401040302, 120401040604, 120401040606, 120401040304, 120401040603, 120401040701	06000091, 06000087, 06000079, 06000090, 06000092, 06000081, 06000089, 06000093	Other	44.40505	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000405	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.	06000015	Harris	12040104	120401040606, 120401040701	06000092, 06000093	Project Planning	4.929197	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000406	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.	06000015	Harris	12040104	120401040606, 120401040701	06000092, 06000093	Project Planning	4.929197	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000403	Halls Bayou - Design and Construction of a Stormwater Detention Basin in Brock Park	\$ 30,000.00		12,422.00	10,065.00	43,171.00	98.00	7.00	7.00	121.99	9.64		
061000404	Halls Bayou - Planning, Right-Of-Way, Design and Construction of Halls Bayou Flood Risk Management Project	\$ 30,000.00		12,422.00	10,065.00	43,171.00	98.00	7.00	7.00	121.99	9.64		
061000405	Hunting Bayou Wallisville Outfall (H103-00-00) - Gellhorn Drive	\$ 30,000.00		396.00	328.00	10,304.00	1.00	2.00	2.00	13.03	0.66		
061000406	Hunting Bayou Wallisville Outfall (H103-00-00) - Denver Harbor	\$ 30,000.00		396.00	328.00	10,304.00	1.00	2.00	2.00	13.03	0.66		



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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000407	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	06000015	Harris	12040101, 12040103, 12040104, 12040203	120401010502, 120401010501, 120401030205, 120401030402, 120401040704, 120402030103, 120402030102	06000025, 06000024, 06000060, 06000070, 06000096, 06000101, 06000100	Project Planning	74.887326	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston, Liberty County Water Control District 1	N
061000412	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	06000015	Harris	12040101, 12040103, 12040104, 12040203	120401010502, 120401010501, 120401030205, 120401030402, 120401040704, 120402030103, 120402030102	06000025, 06000024, 06000060, 06000070, 06000096, 06000101, 06000100	Project Planning	74.887326	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston, Liberty County Water Control District 1	N
061000413	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	06000015	Harris	12040101, 12040103, 12040104, 12040203	120401010502, 120401010501, 120401030205, 120401030402, 120401040704, 120402030103, 120402030102	06000025, 06000024, 06000060, 06000070, 06000096, 06000101, 06000100	Project Planning	74.887326	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston, Liberty County Water Control District 1	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000407	Luce Bayou (Z100-00-00-P026) Bypass Channel	\$ 30,000.00		1,939.00	1,465.00	5,763.00	25.00	0.00	0.00	39.77	1,122.39		
061000412	Luce Bayou (Z100-00-00-P026) Channelization	\$ 30,000.00		1,939.00	1,465.00	5,763.00	25.00	0.00	0.00	39.77	1,122.39		
061000413	Luce Bayou (Z100-00-00-P026) Upstream Detention	\$ 30,000.00		1,939.00	1,465.00	5,763.00	25.00	0.00	0.00	39.77	1,122.39		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000414	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.	06000015	Harris	12040104	120401040604, 120401040603	06000090, 06000089	Project Planning	0.262348	Urban/Local	Harris County	Harris, Harris County Flood Control District	N
061000415	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.	06000015	Brazoria	12040204, 12040204, 12040204	120402040100, 120402040400, 120402040200	06000106, 06000107, 06000109	Project Planning	0.262348	Urban/Local	City of Manvel	City of Manvel, Brazoria County	N
061000416	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.	06000015	Harris	12040104	120401040604, 120401040603	06000090, 06000089	Project Planning	1.961867	Urban/Local	Harris County	Harris, Harris County Flood Control District, Houston	N
061000417	Houston Fifth Area Flood Mitigation	Further study to develop this project into a FMP. This unfunded CDBG-MIT application involves installing various storm sewer infrastructure in the Fifth Ward within the City of Houston.	06000015	Harris	12040104	120401040701	06000093	Project Planning	40.595013	Urban/Local	City of Houston	Harris, Harris County Flood Control District, Houston	N
061000418	Houston Port Area Flood Mitigation	Further study to develop this project into a FMP. The project includes storm sewer improvements on nearly every street in the Pleasantville neighborhood to improve conveyance capacity and construction of a detention basin.	06000015	Harris	12040104	120401040701	06000093	Project Planning	40.595013	Urban/Local	City of Houston	Harris, Harris County Flood Control District, Houston	N
061000419	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.	06000015	Fort Bend, Harris	12040104	120401040401	06000083	Project Planning	95.570721	Urban/Local	City of Houston	Harris, Harris County Flood Control District, Houston	N
061000420	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.	06000015	Brazoria, Galveston , Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	102.40845	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000414	Planning Phase Study Report for Fairgreen & Eastex Freeway Forest Subdivisions Drainage Improvements 2019	\$ 30,000.00	Harris County Bond Program 2018	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00		
061000415	City of Manvel Rogers Rd. Drainage Improvements	\$ 30,000.00		1,250.00	966.00	8,190.00	8.00	0.00	0.00	43.31	178.80		
061000416	Fallbrook, Ridgepoint and Westpoint Subdivision Drainage Improvements	\$ 30,000.00		114.00	59.00	366.00	5.00	0.00	0.00	0.60	0.00		
061000417	Houston Fifth Area Flood Mitigation	\$ 30,000.00		6,262.00	5,220.00	34,532.00	112.00	6.00	6.00	100.92	20.48		
061000418	Houston Port Area Flood Mitigation	\$ 30,000.00		6,262.00	5,220.00	34,532.00	112.00	6.00	6.00	100.92	20.48		
061000419	Houston Huntington Village Area Flood Mitigation	\$ 30,000.00		32,129.00	29,534.00	267,993.00	448.00	1.00	1.00	412.20	41.83		
061000420	Clear Creek - Friendswood Detention Basin Near FM 528 in Friendswood	\$ 30,000.00		14,917.00	13,124.00	72,758.00	155.00	9.00	9.00	264.18	161.82		



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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000421	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.	06000015	Brazoria, Galveston , Fort Bend, Harris	12040104, 12040204	120401040502, 120401040501, 120402040200, 120402040400, 120402040100	06000086, 06000085, 06000107, 06000109, 06000106	Project Planning	200.27326	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District	N
061000422	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.	06000015	Chambers , Harris	12040203	120402030106	06000104	Project Planning	48.362501	Urban/Local	City of Baytown	Harris, Harris County Flood Control District, Baytown	N
061000423	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.	06000015	Chambers , Harris	12040203	120402030106	06000104	Project Planning	48.362501	Urban/Local	City of Baytown	Harris, Harris County Flood Control District, Baytown	N
061000424	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.	06000015	Galveston , Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	20.829157	Urban/Local	City of Friendswood	Galveston, Harris, Harris County Flood Control District, Friendswood	N
061000425	Clear Creek - Rehabilitation of the A214-00-00 channel to Restore Channel Conveyance Capacity	Major maintenance to restore channel conveyance capacity.	06000015	Harris, Galveston	12040104, 12040204	120401040502, 120401040501, 120402040200, 120402040400, 120402040100	06000086, 06000085, 06000107, 06000109, 06000106	Project Planning	200.27326	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Friendswood	N

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FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000421	Clear Creek - Hughes Stormwater Detention (SWD) Basin	\$ 30,000.00		27,164.00	22,913.00	120,966.00	233.00	12.00	12.00	458.14	532.72		
061000422	Danubina Drainage Improvements	\$ 30,000.00		550.00	440.00	2,324.00	7.00	0.00	0.00	13.82	98.24		
061000423	North Alexander Drainage Improvements	\$ 30,000.00		550.00	440.00	2,324.00	7.00	0.00	0.00	13.82	98.24		
061000424	City of Friendswood - Clear Creek Inline & Offline Detention - Bay Area Blvd. Phase I	\$ 30,000.00		1,680.00	1,601.00	5,467.00	2.00	5.00	5.00	37.72	18.37		
061000425	Clear Creek - Rehabilitation of the A214-00-00 channel to Restore Channel Conveyance Capacity	\$ 30,000.00		424.00	421.00	1,319.00	0.00	0.00	0.00	8.91	3.38		

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FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000426	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.	06000015	Harris, Montgomery	12040101, 12040102	120401010402, 120401010404, 120401020107, 120401020210, 120401020209, 120401020211, 120401020212, 120401020213	06000021, 06000023, 06000032, 06000042, 06000041, 06000043, 06000044, 06000045	Project Planning	32.94456	Riverine	Montgomery County	Montgomery County,	N
061000427	Sandpiper Village Subdivision Drainage Improvements	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.	06000015	Harris	12040102	120401020107	06000032	Project Planning	2.311659	Urban/Local	Harris County	Harris, Harris County Flood Control District, Houston	N
061000431	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.	06000015	Harris	12040104	120401040604, 120401040304	06000090, 06000081	Project Planning	6.011309	Urban/Local	Harris County	Harris, Harris County Flood Control District, Houston	N
061000432	Northfield Place Subdivision Drainage Improvements	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.	06000015	Harris	12040104	120401040604, 120401040304	06000090, 06000081	Project Planning	6.011309	Urban/Local	Harris County	Harris, Harris County Flood Control District, Houston	N
061000433	Spring Shadows South	Study to develop a Benefit Cost Analysis needed to elevate project to a FMP. FIF application information unavailable.	06000015	Harris	12040104	120401040302, 120401040303	06000079, 06000080	Project Planning	5.819687	Urban/Local	City of Houston	Harris, Harris County Flood Control District, Houston	N
061000434	Houston Kashmere Gardens Area Flood Mitigation	Further study to develop this project into a FMP. The project includes improvements to storm sewer, roadside ditch systems, culverts, sewer inlets, and the construction of detention basins.	06000015	Harris	12040104	120401040703, 120401040604, 120401040606, 120401040304, 120401040701	06000095, 06000090, 06000092, 06000081, 06000093	Project Planning	30.87229	Urban/Local	City of Houston	Harris, Harris County Flood Control District, Houston	N

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061000426	Sawdust Road Bridge Elevation Project	\$ 30,000.00		794.00	633.00	5,042.00	5.00	0.00	0.00	18.37	15.15		
061000427	Sandpiper Village Subdivision Drainage Improvements	\$ 30,000.00		196.00	140.00	519.00	2.00	0.00	0.00	3.17	1.75		
061000431	Oak Glen Place Subdivision Drainage Improvements	\$ 30,000.00		3,188.00	2,296.00	10,940.00	13.00	1.00	1.00	31.84	0.22		
061000432	Northfield Place Subdivision Drainage Improvements	\$ 30,000.00		3,188.00	2,296.00	10,940.00	13.00	1.00	1.00	31.84	0.22		
061000433	Spring Shadows South	\$ 30,000.00		1,006.00	935.00	4,553.00	6.00	0.00	0.00	11.76	0.00		
061000434	Houston Kashmere Gardens Area Flood Mitigation	\$ 30,000.00		6,244.00	5,220.00	34,523.00	98.00	6.00	6.00	101.51	21.13		



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061000435	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).	06000015	Harris	12040104	120401040402	06000084	Project Planning	45.60118	Urban/Local	City of Southsid e Place	Harris, Harris County Flood Control District, Southside Place	N
061000436	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.	06000015	Galveston , Chambers	12040204	120402040200	06000107	Project Planning	6.949026	Urban/Local	Galvesto n County	Galveston, Chambers	N
061000437	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.	06000015	Harris, Liberty, Montgom ery	12040101, 12040103	120401010501, 120401030205, 120401030402	06000024, 06000060, 06000070	Project Planning	155.77614	Urban/Local	Harris County	North Harris County Regional Water Authority, San Jacinto River Authority, Harris County Flood Control District, USACE, Liberty County Water Control District 1	N
061000438	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.	06000015	Harris, Waller, Liberty, Montgom ery	12040101, 12040102, 12040103, 12040104, 12040203, 12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Project Planning	722.66	Urban/Local	Harris County	Harris, Harris County Flood Control District,	N
061000439	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.	06000015	Harris	12040101, 12040102, 12040104	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Project Planning	542.60774	Urban/Local	Harris County	Harris, Waller, Harris County Flood Control District, Jersey Village, Waller, Houston, Tomball, Prairie View, Humble	N

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000435	City of Southside Place - Auden Street Drainage Improvement Project	\$ 30,000.00		8,855.00	8,148.00	93,959.00	146.00	1.00	1.00	124.97	8.68		
061000436	Unincorporated Areas of Bacliff and San Leon Roadside Ditches & Driveway Culverts Improvements	\$ 30,000.00		3,337.00	2,777.00	5,906.00	5.00	0.00	0.00	50.36	48.62		
061000437	Evaluation of Dredging of Channels that Exit Into Lake Houston	\$ 30,000.00		6,662.00	5,121.00	25,574.00	64.00	1.00	1.00	169.08	326.65		
061000438	Greens Bayou, Jackson Bayou, White Oak Bayou, Cypress Creek and San Jacinto River Areas Subdivision Drainage Mitigation Project	\$ 30,000.00		53,765.00	42,231.00	335,950.00	937.00	47.00	47.00	1,051.74	2,742.04		
061000439	Greens Bayou, White Oak Bayou and Cypress Creek Areas Subdivision Drainage Mitigation Project	\$ 30,000.00		33,860.00	27,436.00	267,186.00	562.00	32.00	32.00	601.41	1,841.86		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000440	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.	06000015	Brazoria	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Project Planning	1481.8698	Urban/Local	Brazoria County	Brazoria West Brazoria County Drainage District, Pearland, Manvel, Iowa Colony, Alvin, Brookside Village, Hillcrest, Liverpool, Hitchcock	N
061000441	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.	06000015	Harris	12040104	120401040102, 120401040202, 120401040104, 120401040203, 120401040303	06000072, 06000076, 06000074, 06000077, 06000080	Project Planning	15.50179	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston	N
061000442	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.	06000015	Montgomery	12040101	120401010207, 120401010401	06000011, 06000020	Project Planning	20.072024	Riverine, Urban/Local	City of Conroe	Montgomery County, Conroe	N
061000443	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.	06000013, 06000014, 06000015	Montgomery	12040101	120401010207	06000011	Project Planning	2.484597	Riverine, Urban/Local	City of Conroe	Montgomery County, Conroe	N
061000444	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.	06000015	Montgomery	12040101	120401010207	06000011	Project Planning	1.401927	Riverine, Urban/Local	City of Conroe	Montgomery County, Conroe	N
061000445	Lilly - Alligator Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000015	Montgomery	12040101	120401010207, 120401010401	06000011, 06000020	Project Planning	1.401927	Riverine, Urban/Local	City of Conroe	Montgomery County, Conroe	N
061000446	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.	06000015	Montgomery	12040101	120401010207, 120401010401	06000011, 06000020	Project Planning	6.008916	Riverine, Urban/Local	City of Conroe	Montgomery County, Conroe	N

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000440	Brazoria County Camp Mohawk County Park Development	\$ 30,000.00		18,848.00	14,344.00	65,547.00	248.00	0.00	0.00	328.06	8,584.16		
061000441	Addicks Reservoir - Design and Construction of a Bridge Replacement for Greenhouse Road at South Mayde Creek	\$ 30,000.00		692.00	638.00	3,061.00	12.00	0.00	0.00	11.65	27.29		
061000442	Forest Estates - Live Oak Creek Watershed Artesian Forest 1 - Artesian Creek Watershed	\$ 30,000.00		99.00	83.00	531.00	0.00	0.00	0.00	2.26	0.70		
061000443	Artesian Forest 1 - Artesian Creek Watershed	\$ 30,000.00		40.00	36.00	69.00	1.00	0.00	0.00	0.89	6.58		
061000444	Artesian Forest East - Artesian Creek Watershed	\$ 30,000.00		40.00	36.00	69.00	1.00	0.00	0.00	0.89	6.58		
061000445	Lilly - Alligator Creek Watershed	\$ 30,000.00		516.00	426.00	3,099.00	2.00	9.00	9.00	9.90	2.45		
061000446	East Fork North - Alligator Creek Watershed "	\$ 30,000.00		516.00	426.00	3,099.00	2.00	9.00	9.00	9.90	2.45		



Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000447	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.	06000015	Montgomery	12040101	120401010207, 120401010401	06000011, 06000020	Project Planning	6.008916	Riverine, Urban/Local	City of Conroe	Montgomery County, Conroe	N
061000448	West Branch - Alligator Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000015	Montgomery	12040101	120401010207, 120401010401	06000011, 06000020	Project Planning	6.008916	Riverine, Urban/Local	City of Conroe	Montgomery County, Conroe	N
061000449	Oak Hollow - Alligator Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000015	Montgomery	12040101	120401010207, 120401010401	06000011, 06000020	Project Planning	6.008916	Riverine, Urban/Local	City of Conroe	Montgomery County, Conroe	N
061000450	Cable - Alligator Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000015	Montgomery	12040101	120401010207, 120401010401	06000011, 06000020	Project Planning	6.008916	Riverine, Urban/Local	City of Conroe	Montgomery County, Conroe	N
061000451	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.	06000015	Montgomery	12040101	120401010207, 120401010401	06000011, 06000020	Project Planning	6.008916	Riverine, Urban/Local	City of Conroe	Montgomery County, Conroe	N
061000452	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.	06000015	Montgomery	12040101	120401010207, 120401010401	06000011, 06000020	Project Planning	3.50546	Riverine, Urban/Local	City of Conroe	Montgomery County, Conroe	N
061000453	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.	06000013, 06000014, 06000015	Montgomery	12040101	120401010207, 120401010401	06000011, 06000020	Project Planning	3.50546	Riverine, Urban/Local	City of Conroe	Montgomery County, Conroe	N
061000454	Baretta - Grand Lake Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000015	Montgomery	12040101	120401010401	06000020	Project Planning	9.514375	Riverine, Urban/Local	City of Conroe	Montgomery County, Conroe	N
061000455	Valley - Stewarts Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000015	Montgomery	12040101	120401010207, 120401010403, 120401010401, 120401010402, 120401010205, 120401010206	06000011, 06000022, 06000020, 06000021, 06000009, 06000010	Project Planning	3.592233	Riverine, Urban/Local	City of Conroe	Montgomery County, Conroe	N

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000447	East Fork South - Alligator Creek Watershed "	\$ 30,000.00		516.00	426.00	3,099.00	2.00	9.00	9.00	9.90	2.45		
061000448	West Branch - Alligator Creek Watershed	\$ 30,000.00		516.00	426.00	3,099.00	2.00	9.00	9.00	9.90	2.45		
061000449	Oak Hollow - Alligator Creek Watershed	\$ 30,000.00		516.00	426.00	3,099.00	2.00	9.00	9.00	9.90	2.45		
061000450	Cable - Alligator Creek Watershed	\$ 30,000.00		516.00	426.00	3,099.00	2.00	9.00	9.00	9.90	2.45		
061000451	South Frazier - Grand Lake Creek Watershed	\$ 30,000.00		365.00	257.00	1,873.00	6.00	0.00	0.00	6.66	2.98		
061000452	Rivershire East - Grand Lake Creek Watershed	\$ 30,000.00		365.00	257.00	1,873.00	6.00	0.00	0.00	6.66	2.98		
061000453	Rivershire West - Grand Lake Creek Watershed	\$ 30,000.00		879.00	682.00	4,662.00	6.00	9.00	9.00	16.56	5.43		
061000454	Baretta - Grand Lake Creek Watershed	\$ 30,000.00		102.00	63.00	283.00	0.00	1.00	1.00	5.95	3.95		
061000455	Valley - Stewarts Creek Watershed	\$ 30,000.00		374.00	277.00	2,384.00	7.00	7.00	7.00	10.31	6.72		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000456	Hunnington - Stewarts Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000013, 06000014, 06000015	Montgomery	12040101	120401010207, 120401010403, 120401010401, 120401010402, 120401010205, 120401010206	06000011, 06000022, 06000020, 06000021, 06000009, 06000010	Project Planning	19.659163	Riverine, Urban/Local	City of Conroe	Montgomery County, Conroe	N
061000457	Avenue M - Stewarts Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000013, 06000014, 06000015	Montgomery	12040101	120401010207, 120401010403, 120401010401, 120401010402, 120401010205, 120401010206	06000011, 06000022, 06000020, 06000021, 06000009, 06000010	Project Planning	19.659163	Riverine, Urban/Local	City of Conroe	Montgomery County, Conroe	N
061000458	South 3rd - Stewarts Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000015	Montgomery	12040101	120401010207, 120401010403, 120401010401, 120401010402, 120401010205, 120401010206	06000011, 06000022, 06000020, 06000021, 06000009, 06000010	Project Planning	19.659163	Riverine, Urban/Local	City of Conroe	Montgomery County, Conroe	N
061000459	Toby - Little Caney Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000013, 06000014, 06000015	Montgomery	12040101	120401010403, 120401010401, 120401010402	06000022, 06000020, 06000021	Project Planning	19.659163	Riverine, Urban/Local	City of Conroe	Montgomery County, Conroe	N

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000456	Hunnington - Stewarts Creek Watershed	\$ 30,000.00		374.00	277.00	2,384.00	7.00	7.00	7.00	10.31	6.72		
061000457	Avenue M - Stewarts Creek Watershed	\$ 30,000.00		374.00	277.00	2,384.00	7.00	7.00	7.00	10.31	6.72		
061000458	South 3rd - Stewarts Creek Watershed	\$ 30,000.00		374.00	277.00	2,384.00	7.00	7.00	7.00	10.31	6.72		
061000459	Toby - Little Caney Creek Watershed	\$ 30,000.00		271.00	204.00	571.00	0.00	0.00	0.00	6.53	3.90		



Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000460	Southern Oak - Little Laney Creek	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000013, 06000014, 06000015	Montgomery	12040101	120401010403, 120401010401, 120401010402	06000022, 06000020, 06000021	Project Planning	8.613266	Riverine, Urban/Local	City of Conroe	Montgomery County, Conroe	N
061000461	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.	06000013, 06000014, 06000015	Montgomery	12040101	120401010207, 120401010206	06000011, 06000010	Project Planning	8.613266	Riverine, Urban/Local	City of Conroe	Montgomery County, Conroe	N
061000462	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.	06000015	Montgomery	12040101	120401010207, 120401010401	06000011, 06000020	Project Planning	2.380182	Riverine, Urban/Local	City of Conroe	Montgomery County, Conroe	N
061000463	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	06000010	Montgomery	12040101, 12040102, 12040103	120401010403, 120401010401, 120401010402, 120401010501, 120401010404, 120401020212, 120401030110, 120401030102, 120401030108, 120401030104, 120401030103, 120401030105, 120401030106, 120401030107, 120401030109, 120401030402, 120401030401	06000022, 06000020, 06000021, 06000024, 06000023, 06000044, 06000055, 06000047, 06000053, 06000049, 06000048, 06000050, 06000051, 06000052, 06000054, 06000070, 06000069	Watershed Planning	312.72239	Riverine, Urban/Local	Montgomery County	Montgomery County	Y

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000460	Southern Oak - Little Laney Creek	\$ 30,000.00		271.00	204.00	571.00	0.00	0.00	0.00	6.53	3.90		
061000461	Rush Creek Lake - Lake Conroe Estates Watershed	\$ 30,000.00		80.00	73.00	130.00	0.00	1.00	1.00	0.38	1.17		
061000462	Longmire and SH-105 - Live Oak Creek Watershed	\$ 30,000.00		99.00	83.00	531.00	0.00	0.00	0.00	2.26	0.70		
061000463	Southeast Montgomery County Master Drainage Plan	\$ 1,170,000.00		10,021.00	7,836.00	22,126.00	39.00	17.00	17.00	212.79	296.67		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need
061000464	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.	06000015	Harris	12040101, 12040104	120401010502, 120401040605, 120401040703, 120401040705, 120401040702, 120401040606, 120401040704	06000025, 06000091, 06000095, 06000097, 06000094, 06000092, 06000096	Project Planning	31.025701	Urban/Local	Harris County	Harris, Harris County Flood Control District, Houston	N
061000465	Catalina	Study to develop a BCR and other data needed to elevate project to a FMP. FIF application information unavailable.	06000015	Harris	12040204	120402040100	06000106	Project Planning	261.60004	Other	City of Houston	Harris, Harris County Flood Control District	N
061000466	Ralston Acres Subdivision Drainage Improvements	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.	06000015	Harris	12040104	120401040605, 120401040604, 120401040606	06000091, 06000090, 06000092	Project Planning	1.86111	Urban/Local	Harris County	Harris, Harris County Flood Control District, Houston	N
061000467	Middle Armand Bayou Protection Project	Further study to develop this project into a FMP. FIF application information unavailable.	06000015	Harris	12040204	120402040100	06000106	Other	261.60004	Urban/Local	City of Pasadena	Harris County Flood Control District, Pasadena	N
061000468	Houston Sunnyside Area Flood Mitigation	Further study to develop into a FMP. 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.	06000015	Harris	12040104, 12040204	120401040402, 120401040502, 120401040501, 120402040100	06000084, 06000086, 06000085, 06000106	Project Planning	23.571218	Urban/Local	City of Houston	Harris, Harris County Flood Control District, Houston	N
061000469	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.	06000015	Harris	12040104	120401040604, 120401040603	06000090, 06000089	Project Planning	10.484136	Urban/Local	Harris County	Harris, Harris County Flood Control District, Houston,	N

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000464	Carpenters Bayou (West Acres, Shadowglen & Old River Terrace Neighborhood)	\$ 30,000.00		812.00	489.00	4,689.00	24.00	2.00	2.00	18.83	96.26		
061000465	Catalina	\$ 30,000.00		33,653.00	28,408.00	155,360.00	395.00	16.00	16.00	578.02	596.69		
061000466	Ralston Acres Subdivision Drainage Improvements	\$ 30,000.00		80.00	64.00	217.00	0.00	0.00	0.00	1.71	1.91		
061000467	Middle Armand Bayou Protection Project	\$ 30,000.00		33,653.00	28,408.00	155,360.00	395.00	16.00	16.00	578.02	596.69		
061000468	Houston Sunnyside Area Flood Mitigation	\$ 30,000.00		1,640.00	1,580.00	5,236.00	5.00	0.00	0.00	22.13	10.29		
061000469	Eastex Freeway Forest Sections 3 & 4 Subdivision Improvements	\$ 30,000.00		6,515.00	5,497.00	24,456.00	60.00	3.00	3.00	71.50	12.08		



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**Appendix 4-5:**  
**Table 13 - Potential FMPs**

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Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC12s	Watersheds	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight
063000026	Lower Clear Creek & Dickinson Bayou Flood Mitigation Plan - Lower Clear Creek Alternative 3	Further refine 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.	06000001, 06000005, 06000006, 06000015	Brazoria, Galveston, Harris	120402040200, 120402040100	06000107, 06000106	Comprehensive	109.51	Riverine	City of League City	Brazoria, Galveston, Harris, Harris County Flood Control District
063000027	Brays Bayou Watershed Mitigation Project CDBG MIT Application - Bintliff Ditch Improvements D133-00-00 & Sharpstown	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	06000001, 06000005, 06000006, 06000015	Harris	120401040401	06000083	Comprehensive	2.17	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
063000037	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	06000001, 06000005, 06000006, 06000015	Fort Bend, Harris	120401040703, 120401040402, 120401040502, 120401040501, 120402040400, 120402040100	06000095, 06000084, 06000086, 06000085, 06000109, 06000106	Comprehensive	93.21	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
063000040	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, C30, and C23	06000001, 06000005, 06000006, 06000015	Harris	120401040605, 120401040601, 120401040302, 120401040604, 120401040606, 120401040304, 120401040603, 120401040701	06000091, 06000087, 06000079, 06000090, 06000092, 06000081, 06000089, 06000093	Comprehensive	44.45	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

					Flood Risk								
FMP ID	FMP Name	Emergency Need (Y/N)	Estimated Project Cost (\$)	Potential Funding Sources and Amount	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at 100-year flood risk	Estimated Population at 100-year flood risk	Critical Facilities at 100-year flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at 100-year flood risk (miles)
063000026	Lower Clear Creek & Dickinson Bayou Flood Mitigation Plan - Lower Clear Creek Alternative 3	N	\$ 1,150,000,000.00		22.08	11.46	3,642.00	3,035.00	15,959.00	18.00	9.00	9.00	118.62
063000027	Brays Bayou Watershed Mitigation Project CDBG MIT Application - Bintliff Ditch Improvements D133-00-00 & Sharpstown	Y	\$ 107,061,000.00		0.62	0.43	267.00	182.00	8,121.00	26.00	0.00	0.00	34.18
063000037	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	Y	\$ 99,653,000.00		2.76	0.92	4,367.00	4,032.00	18,899.00	59.00	4.00	4.00	55.45
063000040	Halls Bayou Watershed Mitigation Application 1 - CDBG MIT	Y	\$ 99,653,000.00		12.04	3.73	15,541.00	13,009.00	55,015.00	96.00	7.00	7.00	138.50

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

		Flood Risk	Reduction in Flood Risk							
FMP ID	FMP Name	Estimated farm & ranch land at 100-year flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk	Residential structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences
063000026	Lower Clear Creek & Dickinson Bayou Flood Mitigation Plan - Lower Clear Creek Alternative 3	130.58	1,358.00	911.00	2,610.00	835.00	3,653.00	8.00	1.00	1.00
063000027	Brays Bayou Watershed Mitigation Project CDBG MIT Application - Bintliff Ditch Improvements D133-00-00 & Sharpstown	0.41	78.00	160.00	279.00	118.00	2,890.00	4.00	0.00	0.00
063000037	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	5.38	1,328.00	2,283.00	970.00	2,127.00	9,352.00	32.00	2.00	2.00
063000040	Halls Bayou Watershed Mitigation Application 1 - CDBG MIT	15.10	3,259.00	3,023.00	1,336.00	2,652.00	9,386.00	6.00	0.00	0.00



Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

		Reduction in Flood Risk													
FMP ID	FMP Name	Estimated length of roads removed from 100-year flood risk (miles)	Estimated farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if applicable)	Pre-Project Level of Service	Post-Project Level of Service	Cost/Structure removed	Percent Nature-Based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Social Vulnerability Index (SVI)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	BCR
063000026	Lower Clear Creek & Dickinson Bayou Flood Mitigation Plan - Lower Clear Creek Alternative 3	26.00	16.11			Unknown	Unknown	1,545,698.92	0.00	N	N	0.33	N	0.00	0.06
063000027	Brays Bayou Watershed Mitigation Project CDBG MIT Application - Bintliff Ditch Improvements D133-00-00 & Sharpstown	5.00	0.00			Unknown	Unknown	0.00	0.00	N	N	0.76	N	0.00	0.13
063000037	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	17.00	2.46			Unknown	Unknown	43,650.02	0.00	N	N	0.80	N	0.00	1.80
063000040	Halls Bayou Watershed Mitigation Application 1 - CDBG MIT	17.00	0.03			Unknown	0.01	196,554.24	0.00	N	N	0.78	N	0.00	1.46

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC12s	Watersheds	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight
063000046	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.	06000001, 06000005, 06000006, 06000015	Harris	120401020104, 120401020106, 120401040601, 120401040305, 120401040302, 120401040604, 120401040303, 120401040304, 120401040301, 120401040701	06000029, 06000031, 06000087, 06000082, 06000079, 06000090, 06000080, 06000081, 06000078, 06000093	Comprehensive	110.71	Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Jersey Village, Houston
063000058	Caney Creek - Channelization at IH-69 & Detention at FM1097 + SH105	Reduce flooding in the Caney Creek watershed by benching/widening a 7.8-mile-long stretch to increase conveyance capacity. Must be constructed with detention at FM1097 or detention at SH105 to capture runoff from Caney Creek.	06000001, 06000005, 06000006, 06000015	Harris, Liberty, Montgomery, San Jacinto, Walker			Comprehensive	370.50	Riverine	Montgomery County	Montgomery, Harris, Houston, Harris County Flood Control District, San Jacinto San Jacinto River Authority
063000059	East Fork San Jacinto River - Winters Bayou Detention	The goal of the detention facility is to reduce flooding in the East Fork watershed by constructing a 1.60-mile-long earthen impoundment that captures runoff from Winters Bayou.	06000001, 06000011, 06000012, 06000015	Harris, Liberty, Montgomery, San Jacinto, Walker			Detention Pond	408.79	Riverine	San Jacinto County	Montgomery, Liberty, Harris, Harris County Flood Control District, San Jacinto San Jacinto River Authority
063000060	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.	06000001, 06000011, 06000012, 06000015	Montgomery, Grimes	120401010101, 120401010301, 120401010302, 120401010303, 120401010103, 120401010203, 120401010304, 120401010205	06000001, 06000012, 06000013, 06000014, 06000003, 06000007, 06000015, 06000009	Detention Pond	103.90	Riverine	Montgomery County	Montgomery, Grimes, San Jacinto San Jacinto River Authority

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

					Flood Risk								
FMP ID	FMP Name	Emergency Need (Y/N)	Estimated Project Cost (\$)	Potential Funding Sources and Amount	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at 100-year flood risk	Estimated Population at 100-year flood risk	Critical Facilities at 100-year flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at 100-year flood risk (miles)
063000046	White Oak Bayou CDBG MIT Application Projects: Kolbe Road Drainage Improvements, Barwood, E132-00-00, Tower Oaks, & Little White Oak	Y	\$ 120,015,000.00		2.31	1.04	2,937.00	2,413.00	15,842.00	41.00	4.00	4.00	47.31
063000058	Caney Creek - Channelization at IH-69 & Detention at FM1097 + SH105	Y	\$ 469,000,000.00		37.66	6.74	3,641.00	2,853.00	5,743.00	1.00	9.00	9.00	91.44
063000059	East Fork San Jacinto River - Winters Bayou Detention	N	\$ 134,000,000.00		47.75	6.29	1,896.00	1,442.00	3,705.00	3.00	1.00	1.00	73.49
063000060	Lake Creek - Detention on Garretts Creek, Little Caney Creek, & Caney Creek	Y	\$ 291,000,000.00		32.68	3.19	479.00	368.00	488.00	0.00	5.00	5.00	18.21

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

		Flood Risk	Reduction in Flood Risk							
FMP ID	FMP Name	Estimated farm & ranch land at 100-year flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk	Residential structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences
063000046	White Oak Bayou CDBG MIT Application Projects: Kolbe Road Drainage Improvements, Barwood, E132-00-00, Tower Oaks, & Little White Oak	0.21	549.00	670.00	381.00	605.00	3,899.00	3.00	0.00	0.00
063000058	Caney Creek - Channelization at IH-69 & Detention at FM1097 + SH105	79.13	336.00	2,422.00	2,068.00	1,827.00	4,049.00	1.00	0.00	0.00
063000059	East Fork San Jacinto River - Winters Bayou Detention	72.04	297.00	651.00	1,005.00	506.00	1,412.00	1.00	0.00	0.00
063000060	Lake Creek - Detention on Garretts Creek, Little Caney Creek, & Caney Creek	198.35	41.00	355.00	397.00	265.00	383.00	0.00	1.00	1.00



Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

		Reduction in Flood Risk													
FMP ID	FMP Name	Estimated length of roads removed from 100-year flood risk (miles)	Estimated farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if applicable)	Pre-Project Level of Service	Post-Project Level of Service	Cost/Structure removed	Percent Nature-Based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Social Vulnerability Index (SVI)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	BCR
063000046	White Oak Bayou CDBG MIT Application Projects: Kolbe Road Drainage Improvements, Barwood, E132-00-00, Tower Oaks, & Little White Oak	7.00	0.00			Unknown	0.01	179,126.87	0.00	N	N	0.92	N	0.00	0.80
063000058	Caney Creek - Channelization at IH-69 & Detention at FM1097 + SH105	42.00	27.32			Varies by Roadways	Varies by Roadways	193,641.62	0.00	N	N	0.55	N	0.00	0.30
063000059	East Fork San Jacinto River - Winters Bayou Detention	17.00	5.86			Varies by Roadways	Varies by Roadways	205,837.17	0.00	N	N	0.60	N	0.00	0.47
063000060	Lake Creek - Detention on Garretts Creek, Little Caney Creek, & Caney Creek	5.00	-4.00			Varies by Roadways	Varies by Roadways	819,718.31	0.00	N	N	0.17	N	0.00	0.26

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC12s	Watersheds	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight
063000061	Peach Creek-Channelization at IH-69 & Detention at SH105 + Walker Creek	Widen 4.3-mile-long stretch to increase conveyance capacity. Must be completed with 4.7-mile-long detention at SH105 and 3.2-mile-long at Walker Creek to reduce flooding in Peach Creek watershed.	06000001, 06000005, 06000006, 06000015	Liberty, Montgomery, San Jacinto, Walker	120401030110, 120401030102, 120401030108, 120401030101, 120401030103, 120401030105, 120401030106, 120401030107, 120401030109, 120401030402, 120401030303, 120401030304, 120401030401	06000055, 06000047, 06000053, 06000046, 06000048, 06000050, 06000051, 06000052, 06000054, 06000070, 06000063, 06000064, 06000069	Comprehensive	157.95	Riverine	Montgomery County	Montgomery, San Jacinto San Jacinto River Authority, Harris, Harris County Flood Control District
063000062	Spring Creek - Woodland (200-ft) and I-45 Channelization with detention at Birch Creek and Walnut Creek	8.9-mile, 200-foot-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.	06000001, 06000005, 06000006, 06000015	Harris, Waller, Montgomery, Grimes	120401030110, 120401030102, 120401030108, 120401030101, 120401030103, 120401030105, 120401030106, 120401030107, 120401030109, 120401030402, 120401030303, 120401030304, 120401030401	06000055, 06000016, 06000017, 06000018, 06000019, 06000020, 06000021, 06000024, 06000023, 06000036, 06000026, 06000030, 06000032, 06000033, 06000034, 06000035, 06000037, 06000039, 06000038, 06000042, 06000040, 06000041, 06000043, 06000044, 06000045, 06000088	Comprehensive	386.26	Riverine	Montgomery County	Harris, Montgomery, San Jacinto River Authority, Harris County Flood Control District
063000064	West Fork San Jacinto River - Kingwood Benching & HW 242 Channelization	Channel improvement is to reduce flooding in the West Fork watershed by benching/widening to increase conveyance capacity of West Fork in order to lower the water surface elevation. Conduct after or in conjunction with detention on Lake Creek or Spring Creek.	06000001, 06000011, 06000012, 06000015	Harris, Montgomery	120401010502, 120401010501, 120401010404, 120401020213, 120401030110, 120401030402, 120401040705, 120401040702, 120401040602, 120401040704, 120402030104, 120402030102	06000025, 06000025, 06000024, 06000023, 06000045, 06000055, 06000070, 06000097, 06000094, 06000088, 06000096, 06000102, 06000100	Channel	141.08	Riverine	Harris County Flood Control District (HCFCD)	Harris, Montgomery, San Jacinto River Authority, Harris County Flood Control District, Houston

Appendix 4-5: Table 12. Potentially Feasible Flood Mitigation Projects Identified by BFC

Flood Risk													
FMP ID	FMP Name	Emergency Need (Y/N)	Estimated Project Cost (\$)	Potential Funding Sources and Amount	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at 100-year flood risk	Estimated Population at 100-year flood risk	Critical Facilities at 100-year flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at 100-year flood risk (miles)
063000061	Peach Creek-Channelization at IH-69 & Detention at SH105 + Walker Creek	Y	\$ 810,000,000.00		14.81	2.41	1,516.00	1,172.00	2,394.00	1.00	6.00	6.00	45.11
063000062	Spring Creek - Woodland (200-ft) and I-45 Channelization with detention at Birch Creek and Walnut Creek	Y	\$ 393,000,000.00		39.44	9.60	7,487.00	6,355.00	24,721.00	15.00	7.00	7.00	120.97
063000064	West Fork San Jacinto River - Kingwood Benching & HW 242 Channelization	N	\$ 994,000,000.00		55.06	6.17	4,364.00	3,689.00	21,983.00	50.00	0.00	0.00	106.58

		Flood Risk	Reduction in Flood Risk							
FMP ID	FMP Name	Estimated farm & ranch land at 100-year flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk	Residential structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences
063000061	Peach Creek-Channelization at IH-69 & Detention at SH105 + Walker Creek	15.52	98.00	1,146.00	533.00	842.00	1,855.00	1.00	0.00	0.00
063000062	Spring Creek - Woodland (200-ft) and I-45 Channelization with detention at Birch Creek and Walnut Creek	131.71	680.00	5,479.00	5,639.00	4,732.00	18,240.00	8.00	0.00	0.00
063000064	West Fork San Jacinto River - Kingwood Benching & HW 242 Channelization	380.90	1,209.00	1,638.00	2,860.00	1,460.00	7,636.00	10.00	0.00	0.00



Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG															
Reduction in Flood Risk															
FMP ID	FMP Name	Estimated length of roads removed from 100-year flood risk (miles)	Estimated farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if applicable)	Pre-Project Level of Service	Post-Project Level of Service	Cost/Structure removed	Percent Nature-Based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Social Vulnerability Index (SVI)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	BCR
063000061	Peach Creek-Channelization at IH-69 & Detention at SH105 + Walker Creek	24.00	2.86			Varies by Roadways	Varies by Roadways	706,806.28	0.00	N	N	0.59	N	0.00	0.26
063000062	Spring Creek - Woodland (200-ft) and I-45 Channelization with detention at Birch Creek and Walnut Creek	69.00	12.83			Varies by Roadways	Varies by Roadways	71,728.42	0.00	N	N	0.17	N	0.00	0.73
063000064	West Fork San Jacinto River - Kingwood Benching & HW 242 Channelization	28.00	19.39			Varies by Roadways	Varies by Roadways	742,899.85	0.00	N	N	0.25	N	0.00	0.10

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC12s	Watersheds	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight
063000113	City of Friendswood Ordinances and Regulation Update	Adopt higher codes and update ordinances and regulation to promote hazard mitigation strategies	06000001, 06000007, 06000010, 06000015	Galveston, Harris	120402040200, 120402040100	06000107, 06000106	Preparedness	20.83	Urban/Local	City of Friendswood	Friendswood
063000114	City of Bayou Vista Regulations and Permit Requirements Update	Update regulations and permit requirements to address enhances hazard mitigation strategies.	06000001, 06000007, 06000010, 06000015	Galveston	120402040200	06000107	Preparedness	0.45	Urban/Local	City of Bayou Vista	Galveston, Bayou Vista
063000115	City of League City Freeboard Ordinance	Update city ordinance to require 24" of freeboard in the floodplain.	06000001, 06000007, 06000010, 06000015	Galveston, Harris	120402040200, 120402040100	06000107, 06000106	Preparedness	52.89	Riverine, Urban/Local	City of League City	Galveston, League City
063000123	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	06000001, 06000007, 06000010, 06000015	Liberty, Montgomery , San Jacinto	120401030201, 120401030108, 120401030109, 120401030203, 120401030202, 120401030401	06000056, 06000053, 06000054, 06000058, 06000057, 06000069	Preparedness	18.74	Urban/Local	City of Cleveland	Cleveland
063000124	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	06000001, 06000007, 06000010, 06000015	Liberty, Montgomery , San Jacinto	120401030201, 120401030108, 120401030109, 120401030203, 120401030202, 120401030401	06000056, 06000053, 06000054, 06000058, 06000057, 06000069	Preparedness	18.74	Urban/Local	City of Cleveland	Cleveland
063000126	City of Cleveland Ordinance Update Pipeline Right-of-Way	Adopt 25-foot setback from pipeline right-of-way	06000001, 06000007, 06000010, 06000015	Liberty, Montgomery , San Jacinto	120401030201, 120401030108, 120401030109, 120401030203, 120401030202, 120401030401	06000056, 06000053, 06000054, 06000058, 06000057, 06000069	Preparedness	18.74	Urban/Local	City of Cleveland	Cleveland

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

					Flood Risk								
FMP ID	FMP Name	Emergency Need (Y/N)	Estimated Project Cost (\$)	Potential Funding Sources and Amount	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at 100-year flood risk	Estimated Population at 100-year flood risk	Critical Facilities at 100-year flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at 100-year flood risk (miles)
063000113	City of Friendswood Ordinances and Regulation Update	N	\$ 109,000.00		5.12	2.80	1,680.00	1,601.00	5,467.00	2.00	5.00	5.00	37.72
063000114	City of Bayou Vista Regulations and Permit Requirements Update	N	\$ 109,000.00		0.45	0.00	1,122.00	1,095.00	1,502.00	3.00	0.00	0.00	7.71
063000115	City of League City Freeboard Ordinance	N	\$ 109,000.00		16.74	10.14	5,251.00	4,835.00	20,978.00	25.00	2.00	2.00	104.56
063000123	City of Cleveland Floodplain Land-Use Ordinance	N	\$ 109,000.00		6.83	1.08	261.00	133.00	1,267.00	0.00	1.00	1.00	27.33
063000124	City of Cleveland Floodplain Ordinance Update	N	\$ 109,000.00		6.83	1.08	261.00	133.00	1,267.00	0.00	1.00	1.00	27.33
063000126	City of Cleveland Ordinance Update Pipeline Right-of-Way	N	\$ 55,000.00		6.83	1.08	261.00	133.00	1,267.00	0.00	1.00	1.00	27.33

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

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Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

		Reduction in Flood Risk													
FMP ID	FMP Name	Estimated length of roads removed from 100-year flood risk (miles)	Estimated farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if applicable)	Pre-Project Level of Service	Post-Project Level of Service	Cost/Structure removed	Percent Nature-Based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Social Vulnerability Index (SVI)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	BCR
063000113	City of Friendswood Ordinances and Regulation Update	0.00	0.00			Unknown	0.01	0.00	0.00	N	N	0.27	N	0.00	5.00
063000114	City of Bayou Vista Regulations and Permit Requirements Update	0.00	0.00			Unknown	0.01	0.00	0.00	N	N	0.14	N	0.00	5.00
063000115	City of League City Freeboard Ordinance	0.00	0.00			Unknown	Unknown	0.00	0.00	N	N	0.19	N	0.00	5.00
063000123	City of Cleveland Floodplain Land-Use Ordinance	0.00	0.00			Unknown	Unknown	0.00	0.00	N	N	0.75	N	0.00	5.00
063000124	City of Cleveland Floodplain Ordinance Update	0.00	0.00			Unknown	Unknown	0.00	0.00	N	N	0.75	N	0.00	0.00
063000126	City of Cleveland Ordinance Update Pipeline Right-of-Way	0.00	0.00			Unknown	Unknown	0.00	0.00	N	N	0.75	N	0.00	0.00

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC12s	Watersheds	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight
063000127	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	06000011, 06000012, 06000013, 06000014	Brazoria, Galveston, Fort Bend, Chambers, Harris, Liberty	120401030201, 120401030108, 120401030109, 120401030203, 120401030202, 120401030401	06000056, 06000091, 06000095, 06000084, 06000097, 06000098, 06000094, 06000082, 06000090, 06000092, 06000081, 06000086, 06000085, 06000093, 06000096, 06000103, 06000102, 06000104, 06000105, 06000108, 06000107, 06000109, 06000110, 06000106	Coastal	1559.02	Coastal	Gulf Coast Protection District	Galveston, Galveston, Chambers, Houston, Gulf Coast Protection District, USACE, Liberty County Water Control District 1
063000128	Bolivar Peninsula and West Bay Gulf Intracoastal Waterway (GIWW) Shoreline and Island Protection	This project involves 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.	06000011, 06000012, 06000013, 06000014	Brazoria, Galveston, Fort Bend, Chambers, Harris, Liberty	120401030201, 120401030108, 120401030109, 120401030203, 120401030202, 120401030401	06000056, 06000091, 06000095, 06000084, 06000097, 06000098, 06000094, 06000082, 06000090, 06000092, 06000081, 06000086, 06000085, 06000093, 06000096, 06000103, 06000102, 06000104, 06000105, 06000108, 06000107, 06000109, 06000110, 06000106	Coastal	1559.02	Coastal	Gulf Coast Protection District	Brazoria, Galveston, Chambers, Gulf Coast Protection District, Liberty County Water Control District 1
063000129	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.	06000001, 06000007, 06000010, 06000015	Brazoria	120402040200, 120402040400, 120402040100	06000107, 06000109, 06000106	Preparedness	27.41	Urban/Local	City of Manvel	Brazoria, West Brazoria County Drainage District, Manvel
063000130	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	06000001, 06000007, 06000010, 06000015	Brazoria	120402040200, 120402040400, 120402040100	06000107, 06000109, 06000106	Preparedness	27.41	Urban/Local	City of Manvel	Brazoria, West Brazoria County Drainage District, Manvel

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

					Flood Risk								
FMP ID	FMP Name	Emergency Need (Y/N)	Estimated Project Cost (\$)	Potential Funding Sources and Amount	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at 100-year flood risk	Estimated Population at 100-year flood risk	Critical Facilities at 100 year flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at 100-year flood risk (miles)
063000127	Galveston Bay Surge Protection Coastal Storm Risk Management	Y	\$ 24,107,064,000.00	Other	340.47	169.42	103,716.00	85,312.00	438,685.00	3,158.00	39.00	39.00	1,680.63
063000128	Bolivar Peninsula and West Bay Gulf Intracoastal Waterway (GIWW) Shoreline and Island Protection	Y	\$ 1,200,169,000.00		491.48	250.98	141,236.00	117,117.00	687,152.00	2,320.00	82.00	82.00	2,431.94
063000129	City of Manvel City Ordinance	N	\$ 103,000.00		8.41	0.78	1,250.00	967.00	8,190.00	8.00	0.00	0.00	43.31
063000130	City of Manvel Land-Use Ordinance Adoption	N	\$ 103,000.00		8.41	0.78	1,250.00	966.00	8,190.00	8.00	0.00	0.00	43.31





Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

		Reduction in Flood Risk													
FMP ID	FMP Name	Estimated length of roads removed from 100-year flood risk (miles)	Estimated farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if applicable)	Pre-Project Level of Service	Post-Project Level of Service	Cost/Structure removed	Percent Nature-Based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Social Vulnerability Index (SVI)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	BCR
063000127	Galveston Bay Surge Protection Coastal Storm Risk Management	1,056.00	4,693.63			Unknown	0.01	305,014.46	0.00	N	N	0.47	N	0.00	1.91
063000128	Bolivar Peninsula and West Bay Gulf Intracoastal Waterway (GIWW) Shoreline and Island Protection	0.00	0.00			Unknown	0.01	0.00	100.00	N	N	0.49	N	0.00	0.00
063000129	City of Manvel City Ordinance	0.00	0.00			Unknown	Unknown	0.00	0.00	N	N	0.42	N	0.00	5.00
063000130	City of Manvel Land-Use Ordinance Adoption	0.00	0.00			Unknown	0.01	0.00	0.00	N	N	0.42	N	0.00	5.00

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC12s	Watersheds	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight
063000132	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.	06000001, 06000007, 06000010, 06000015	Brazoria	120402040200, 120402040400, 120402040100	06000107, 06000109, 06000106	Preparedness	27.41	Urban/Local	City of Manvel	Brazoria, West Brazoria County Drainage District, Manvel
063000136	Brazoria County NFIP Technical Material	Place copies of FEMA Flood-related technical bulletins in County libraries.	06000001, 06000005, 06000006, 06000010, 06000015	Brazoria	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Other	1481.87	Urban/Local	Brazoria County	Brazoria
063000139	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.	06000001, 06000007, 06000010, 06000015	Galveston, Harris	120402040100	06000106	Preparedness	0.71	Riverine, Urban/Local	City of Clear Lake Shores	Galveston, Clear Lake Shores
063000140	City of Clear Lake Shores - Improve Regulations and Permit Requirements	Update regulations and permit requirements	06000001, 06000007, 06000010, 06000015	Galveston, Harris	120402040100	06000106	Preparedness	0.71	Urban/Local	City of Clear Lake Shores	Galveston, Clear Lake Shores
063000142	City of Hitchcock - Improve Regulations and Permit Requirements	Improve regulations and permit requirements to promote hazard mitigation strategies.	06000001, 06000007, 06000010, 06000015	Brazoria, Galveston	120402040300, 120402040200	06000108, 06000107	Preparedness	91.21	Urban/Local	City of Hitchcock	Galveston, Hitchcock
063000143	City of Jamaica Beach - Improve Regulations and Permit Requirements	Improve regulations and permit requirements to promote hazard mitigation strategies.	06000001, 06000007, 06000010, 06000015	Galveston	120402040300	06000108	Preparedness	0.71	Urban/Local	City of Jamaica Beach	Galveston, Jamaica Beach
063000144	City of Kemah - Improve Regulations and Permit Requirements	Improve regulations and permit requirements to promote hazard mitigation strategies.	06000001, 06000007, 06000010, 06000015	Galveston, Chambers	120402040200, 120402040100	06000107, 06000106	Preparedness	1.91	Urban/Local	City of Kemah	Galveston, Kemah

Appendix 4-5: Table 4-10					Flood Risk								
FMP ID	FMP Name	Emergency Need (Y/N)	Estimated Project Cost (\$)	Potential Funding Sources and Amount	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at 100-year flood risk	Estimated Population at 100-year flood risk	Critical Facilities at 100-year flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at 100-year flood risk (miles)
063000132	City of Manvel GIS Database Improvements	N	\$ 21,000.00		8.41	0.78	1,250.00	966.00	8,190.00	8.00	0.00	0.00	43.31
063000136	Brazoria County NFIP Technical Material	N	\$ 21,000.00		179.06	46.51	18,848.00	14,344.00	65,547.00	248.00	0.00	0.00	328.06
063000139	City of Clear Lake Shores - Implement Stormwater Management Practices	N	\$ 109,000.00		0.70	0.01	633.00	529.00	3,407.00	4.00	0.00	0.00	8.82
063000140	City of Clear Lake Shores - Improve Regulations and Permit Requirements	N	\$ 109,000.00		0.70	0.01	633.00	529.00	3,407.00	4.00	0.00	0.00	8.82
063000142	City of Hitcock - Improve Regulations and Permit Requirements	N	\$ 109,000.00		78.65	11.88	2,655.00	2,270.00	6,415.00	12.00	0.00	0.00	72.51
063000143	City of Jamicia Beach - Improve Regulations and Permit Requirements	N	\$ 109,000.00		0.71	0.00	1,276.00	1,238.00	395.00	4.00	0.00	0.00	13.81
063000144	City of Kemah - Improve Regulations and Permit Requirements	N	\$ 109,000.00		0.64	0.99	562.00	425.00	3,492.00	7.00	0.00	0.00	12.01

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		Reduction in Flood Risk				Potentially Feasible Flood Mitigation Projects Identified by RFPG									
FMP ID	FMP Name	Estimated length of roads removed from 100-year flood risk (miles)	Estimated farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if applicable)	Pre-Project Level of Service	Post-Project Level of Service	Cost/Structure removed	Percent Nature-Based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Social Vulnerability Index (SVI)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	BCR
063000132	City of Manvel GIS Database Improvements	0.00	0.00			Unknown	Unknown	0.00	0.00	N	N	0.42	N	0.00	0.00
063000136	Brazoria County NFIP Technical Material	0.00	0.00			Unknown	Unknown	0.00	0.00	N	N	0.36	N	0.00	0.00
063000139	City of Clear Lake Shores - Implement Stormwater Management Practices	0.00	0.00			Unknown	0.01	0.00	0.00	N	N	0.20	N	0.00	0.00
063000140	City of Clear Lake Shores - Improve Regulations and Permit Requirements	0.00	0.00			Unknown	0.01	0.00	0.00	N	N	0.20	N	0.00	5.00
063000142	City of Hitcock - Improve Regulations and Permit Requirements	0.00	0.00			Unknown	0.01	0.00	0.00	N	N	0.55	N	0.00	5.00
063000143	City of Jamicia Beach - Improve Regulations and Permit Requirements	0.00	0.00			Unknown	0.01	0.00	0.00	N	N	0.03	N	0.00	5.00
063000144	City of Kemah - Improve Regulations and Permit Requirements	0.00	0.00			Unknown	0.01	0.00	0.00	N	N	0.42	N	0.00	5.00

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC12s	Watersheds	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight
063000145	City of Kemah - Update Floodplain Ordinance	Update floodplain ordinance to ensure compliance with minimum standard of NFIP.	06000001, 06000007, 06000010, 06000015	Galveston, Chambers	120402040200, 120402040100	06000107, 06000106	Preparedness	1.91	Urban/Local	City of Kemah	Galveston, Kemah
063000146	City of La Marque - Improve Regulations and Permit Requirements	Improve regulations and permit requirements to promote hazard mitigation strategies	06000001, 06000007, 06000010, 06000015	Galveston	120402040200	06000107	Preparedness	14.23	Urban/Local	City of La Marque	Galveston, La Marque
063000148	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.	06000001, 06000007, 06000010, 06000015	Galveston	120402040200	06000107	Preparedness	1.59	Urban/Local	City of Tiki Island	Galveston, Tiki Island
063000149	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	06000001, 06000007, 06000010, 06000015	Galveston	120402040300, 120402040200	06000108, 06000107	Preparedness	17.04	Riverine, Urban/Local	City of Santa Fe	Galveston, Santa Fe
063000152	City of Galveston Land Use Mapping	Develop proposed land use mapping to allow easier consideration of hazards	06000001, 06000007, 06000010, 06000015	Galveston	120402040300, 120402040200, 120402040400, 120402040500	06000108, 06000107, 06000109, 06000110	Preparedness	211.08	Urban/Local	City of Galveston	Galveston, City of Galveston
063000153	City of Galveston Freeboard Requirement Enforcement	Consider adoption and enforcement of freeboard requirement into City's Flood Damage Prevention Ordinance	06000001, 06000007, 06000010, 06000015	Galveston	120402040300, 120402040200, 120402040400, 120402040500	06000108, 06000107, 06000109, 06000110	Preparedness	211.08	Riverine, Urban/Local	City of Galveston	Galveston, City of Galveston
063000167	Greens CDBG MIT Projects: Castlewood, Fountainview, Humble Rd Place, North Forest, Mid-Reach	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.	06000001, 06000005, 06000006, 06000015	Harris			Comprehensive	165.69	Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

					Flood Risk								
FMP ID	FMP Name	Emergency Need (Y/N)	Estimated Project Cost (\$)	Potential Funding Sources and Amount	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at 100-year flood risk	Estimated Population at 100-year flood risk	Critical Facilities at 100-year flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at 100-year flood risk (miles)
063000145	City of Kemah - Update Floodplain Ordinance	N	\$ 109,000.00		0.64	0.99	562.00	425.00	3,492.00	7.00	0.00	0.00	12.01
063000146	City of La Marque - Improve Regulations and Permit Requirements	N	\$ 109,000.00		3.75	9.13	829.00	767.00	1,612.00	8.00	1.00	1.00	31.11
063000148	City of Tiki Island - Improve Regulations and Permit Requirements	N	\$ 109,000.00		1.59	0.00	1,006.00	978.00	1,721.00	6.00	0.00	0.00	9.64
063000149	City of Santa Fe - Improve Regulations and Permit Requirements	N	\$ 109,000.00		0.68	2.37	400.00	306.00	798.00	1.00	9.00	9.00	4.12
063000152	City of Galveston Land Use Mapping	N	\$ 11,000.00		76.41	2.28	21,858.00	19,143.00	93,583.00	509.00	0.00	0.00	408.63
063000153	City of Galveston Freeboard Requirement Enforcement	N	\$ 100,000.00		76.41	2.28	21,858.00	19,143.00	93,583.00	509.00	0.00	0.00	408.63
063000167	Greens CDBG MIT Projects: Castlewood, Fountainview, Humble Rd Place, North Forest, Mid-Reach	N	\$ 120,284,000.00		34.46	22.94	6,644.00	4,979.00	82,257.00	112.00	2.00	2.00	1,557.84

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

		Flood Risk	Reduction in Flood Risk							
FMP ID	FMP Name	Estimated farm & ranch land at 100-year flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk	Residential structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences
063000145	City of Kemah - Update Floodplain Ordinance	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
063000146	City of La Marque - Improve Regulations and Permit Requirements	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
063000148	City of Tiki Island - Improve Regulations and Permit Requirements	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
063000149	City of Santa Fe - Improve Regulations and Permit Requirements	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
063000152	City of Galveston Land Use Mapping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
063000153	City of Galveston Freeboard Requirement Enforcement	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
063000167	Greens CDBG MIT Projects: Castlewood, Fountainview, Humble Rd Place, North Forest, Mid-Reach	126.96	2,076.00	1,816.00	1,550.00	1,508.00	21,508.00	21.00	0.00	0.00



Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

		Reduction in Flood Risk													
FMP ID	FMP Name	Estimated length of roads removed from 100-year flood risk (miles)	Estimated farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if applicable)	Pre-Project Level of Service	Post-Project Level of Service	Cost/Structure removed	Percent Nature-Based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Social Vulnerability Index (SVI)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	BCR
063000145	City of Kemah - Update Floodplain Ordinance	0.00	0.00			Unknown	0.01	0.00	0.00	N	N	0.42	N	0.00	5.00
063000146	City of La Marque - Improve Regulations and Permit Requirements	0.00	0.00			Unknown	0.01	0.00	0.00	N	N	0.67	N	0.00	5.00
063000148	City of Tiki Island - Improve Regulations and Permit Requirements	0.00	0.00			Unknown	0.01	0.00	0.00	N	N	0.14	N	0.00	5.00
063000149	City of Santa Fe - Improve Regulations and Permit Requirements	0.00	0.00			Unknown	0.01	0.00	0.00	N	N	0.35	N	0.00	5.00
063000152	City of Galveston Land Use Mapping	0.00	0.00			Varies by Roadways	Unknown	0.00	0.00	N	N	0.42	N	0.00	0.00
063000153	City of Galveston Freeboard Requirement Enforcement	0.00	0.00			Unknown	Unknown	0.00	0.00	N	N	0.42	N	0.00	5.00
063000167	Greens CDBG MIT Projects: Castlewood, Fountainview, Humble Rd Place, North Forest, Mid-Reach	2,501,851.00	-3.22			Unknown	Unknown	0.00	0.00	N	N	0.70	N	0.00	2.13

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC12s	Watersheds	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight
063000201	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.	06000001, 06000007, 06000010, 06000015	Brazoria, Galveston, Fort Bend	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Preparedness	25.09	Urban/Local	City of Alvin	Brazoria, Alvin
063000417	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.	06000015	Harris	12040104	06000093	Infrastructure	40.60	Urban/Local	City of Houston	Harris, Harris County Flood Control District, Houston
063000468	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.	06000015	Harris	12040104,12040204	06000084, 06000086, 06000085, 06000106	Infrastructure	23.57	Urban/Local	City of Houston	Harris, Harris County Flood Control District, Houston
063000434	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.	06000015	Harris	12040104	06000095, 06000090, 06000092, 06000081, 06000093	Infrastructure	30.87	Urban/Local	City of Houston	Harris, Harris County Flood Control District, Houston
063000418	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.	06000015	Harris	12040104	06000093	Infrastructure	40.60	Urban/Local	City of Houston	Harris, Harris County Flood Control District, Houston

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

					Flood Risk								
FMP ID	FMP Name	Emergency Need (Y/N)	Estimated Project Cost (\$)	Potential Funding Sources and Amount	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at 100-year flood risk	Estimated Population at 100-year flood risk	Critical Facilities at 100-year flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at 100-year flood risk (miles)
063000201	City of Alvin Unified Development Ordinance	N	\$ 100,000.00	Entity/ Budget Funds (100%)	8.79	0.87	3,445.00	2,605.00	21,569.00	18.00	0.00	0.00	56.81
063000417	Houston Fifth Area Flood Mitigation	N	\$ 89,753,487.00		0.80		2,162.00	1,973.00	8,005.00	19.00	0.00	0.00	35.53
063000468	Houston Sunnyside Area Flood Mitigation	N	\$ 111,281,647.00		3.89		7,876.00	7,293.00	29,877.00	97.00	0.00	0.00	104.71
063000434	Houston Kashmere Gardens Area Flood Mitigation	N	\$ 94,879,859.00		0.56		1,221.00	1,135.00	3,569.00	5.00	0.00	0.00	20.60
063000418	Houston Port Area Flood Mitigation	N	\$ 99,021,350.00		0.31		765.00	706.00	4,119.00	20.00	0.00	0.00	13.57

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

		Flood Risk	Reduction in Flood Risk							
FMP ID	FMP Name	Estimated farm & ranch land at 100-year flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk	Residential structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences
063000201	City of Alvin Unified Development Ordinance	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
063000417	Houston Fifth Area Flood Mitigation	0.00	634.00	1,306.00	0.00	1,202.00	4,125.00	16.00	0.00	0.00
063000468	Houston Sunnyside Area Flood Mitigation	4.33	2,704.00	1,410.00	0.00	1,273.00	4,760.00	20.00	0.00	0.00
063000434	Houston Kashmere Gardens Area Flood Mitigation	0.00	238.00	457.00	0.00	370.00	1,494.00	1.00	0.00	0.00
063000418	Houston Port Area Flood Mitigation	0.27	193.00	538.00	0.00	514.00	1,912.00	0.00	0.00	0.00



Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

		Reduction in Flood Risk													
FMP ID	FMP Name	Estimated length of roads removed from 100-year flood risk (miles)	Estimated farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if applicable)	Pre-Project Level of Service	Post-Project Level of Service	Cost/Structure removed	Percent Nature-Based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Social Vulnerability Index (SVI)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	BCR
063000201	City of Alvin Unified Development Ordinance	0.00	0.00			Unknown	Unknown	0.00	0.00	N	N	0.51	N	0.00	5.00
063000417	Houston Fifth Area Flood Mitigation	16.00	0.00			Unknown	Unknown		0.00	N	N		N		1.87
063000468	Houston Sunnyside Area Flood Mitigation	9.00	0.03			Unknown	Unknown		0.00	N	N		N		1.20
063000434	Houston Kashmere Gardens Area Flood Mitigation	0.00	0.00			Unknown	Unknown		0.00	N	N		N		1.09
063000418	Houston Port Area Flood Mitigation	2.00	0.24			Unknown	Unknown		0.00	N	N		N		0.30

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**Appendix 4-6:**  
**Table 14 - Potential FMSs**

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FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000001	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.	06000001, 06000015	Harris	120401040402,1 20401040401	06000084, 06000083	Other	3.58	Urban/Local	City of Bellaire	Harris, Bellaire, Harris County Flood Control District	N	3,000,000	Bonds/Other Financing (25%)
062000002	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.	06000001, 06000015	Harris	120401040402,1 20401040401	06000084, 06000083	Other	3.58	Urban/Local	City of Bellaire	Harris, Bellaire	N	50,000	Other (25%)
062000003	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.	06000001, 06000015	Harris	120401040402,1 20401040401	06000084, 06000083	Other	3.58	Urban/Local	City of Bellaire	Harris, Harris County Flood Control District, Bellaire	N	50,000	General Revenue (25%)
062000004	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.	06000001, 06000015	Harris	120401040402,1 20401040401	06000084, 06000083	Other	3.58	Urban/Local	City of Bellaire	Harris, Harris County Flood Control District, Bellaire	N	100,000	General Revenue (25%)
062000005	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.	06000001, 06000005, 06000006, 06000010, 06000015	Harris	120401040402,1 20401040401	06000084, 06000083	Education and Outreach	3.58	Urban/Local	City of Bellaire	Bellaire	N	50,000	General Revenue (25%)

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000001	City of Bellaire Roadway and Drainage Improvements	2.96	0.54	5,879	5,539	37,604	71	0	0	71.00	0.15	0	0	0
062000002	City of Bellaire Non-Structural Flood Risk Reduction Strategies	2.96	0.54	5,879	5,539	37,604	71	0	0	71.00	0.15	0	0	0
062000003	City of Bellaire Drainage Requirements and Flood Damage Prevention Ordinance	2.96	0.54	5,879	5,539	37,604	71	0	0	71.00	0.15	0	0	0
062000004	City of Bellaire Surrounding Area Drainage Improvements	2.96	0.54	5,879	5,539	37,604	71	0	0	71.00	0.15	0	0	0
062000005	City of Bellaire Floodwater Public Awareness Initiatives	2.96	0.54	5,879	5,539	37,604	71	0	0	71.00	0.15	0	0	0



		Reduction in Flood Risk													
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000001	City of Bellaire Roadway and Drainage Improvements	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000002	City of Bellaire Non-Structural Flood Risk Reduction Strategies	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000003	City of Bellaire Drainage Requirements and Flood Damage Prevention Ordinance	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000004	City of Bellaire Surrounding Area Drainage Improvements	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000005	City of Bellaire Floodwater Public Awareness Initiatives	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000006	City of Bunker Hill Community Outreach	Community Outreach (flooded street identification, marking and signage)	06000001, 06000005, 06000006, 06000010, 06000015	Harris	120401040303	06000080	Education and Outreach	1.44	Urban/Local	City of Bunker Hill Village	Harris, Harris County Flood Control District, Bunker Hill Village	N	100,000	
062000007	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.	06000001,06000015	Harris	120401040303	06000080	Other	1.44	Riverine, Urban/Local	City of Bunker Hill Village	Harris, Harris County Flood Control District, Houston, Bunker Hill Village	N	500,000	
062000008	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.	06000001, 06000005, 06000006, 06000010, 06000015	Harris	N/A	N/A	Education and Outreach	1,770.82	Riverine, Urban/Local	Harris County	Harris, Liberty County Water Control District 1	N	100,000	
062000009	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.	06000001, 06000010, 06000015	Harris	N/A	N/A	Flood Measurement and Warning	1,770.82	Riverine, Urban/Local	Harris County	Harris, Liberty County Water Control District 1	N	300,000	

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000006	City of Bunker Hill Community Outreach	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0	0	0
062000007	City of Bunker Hill Dam/Levee Maintenance and Monitoring Plan	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0	0	0
062000008	Harris County Hazard Mitigation Action AW-3	444.51	200.09	143,642	120,807	976,798	2,332	89	89	2,408.00	5,993.47	0	0	0
062000009	Harris County Hazard Mitigation Action AW-4	444.51	200.09	143,642	120,807	976,798	2,332	89	89	2,408.00	5,993.47	0	0	0

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

		Reduction in Flood Risk													
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000006	City of Bunker Hill Community Outreach	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000007	City of Bunker Hill Dam/Levee Maintenance and Monitoring Plan	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000008	Harris County Hazard Mitigation Action AW-3	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000009	Harris County Hazard Mitigation Action AW-4	0	0	0	0	0	0	0	0	0	0	N	N	N	N



Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000010	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.	06000001, 06000010, 06000015	Harris	N/A	N/A	Flood Measurement and Warning	1,770.82	Riverine, Urban/Local	Harris County	Harris, Liberty County Water Control District 1	N	100,000	
062000011	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.	06000001, 06000010, 06000015	Harris	N/A	N/A	Flood Measurement and Warning	1,770.82	Riverine, Urban/Local	Harris County	Harris, Liberty County Water Control District 1	N	500,000	
062000012	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.	06000001, 06000015	Brazoria	120402040200,120402040400,120402040100	06000107, 06000109, 06000106	Other	15.74	Riverine, Urban/Local	City of Alvin	Brazoria, Alvin	N	25000	Entity Budget/Funds (100%)
062000013	Brazoria County Increased Cost of Compliance Education	Implement campaign on public education of ICC (Increased Cost of Compliance) coverage.	06000001, 06000005, 06000006, 06000010, 06000015	Brazoria	120402040300,120402040200,120402040400,120402040100	06000108, 06000107, 06000109, 06000106	Education and Outreach	1,481.63	Riverine, Coastal, Urban/Local	Brazoria County	Brazoria	N	20000	
062000014	City of Galveston NFIP CRS Rating	Maintain membership of the NFIP's CRS	06000001, 06000015	Galveston	120402040300,120402040200,120402040400,120402040500	06000108, 06000107, 06000109, 06000110	Other	53.42	Riverine, Coastal, Urban/Local	City of Galveston	Galveston	N	10,000	

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000010	Harris County Hazard Mitigation Action AW-5	444.51	200.09	143,642	120,807	976,798	2,332	89	89	2,408.00	5,993.47	0	0	0
062000011	Harris County Hazard Mitigation Action AW-6	444.51	200.09	143,642	120,807	976,798	2,332	89	89	2,408.00	5,993.47	0	0	0
062000012	City of Alvin CRS Application	7.53	0.63	3,428	2,588	21,551	18	0	0	52.00	176.13	0	0	0
062000013	Brazoria County Increased Cost of Compliance Education	178.90	46.42	18,845	14,341	65,536	248	0	0	328.00	8,576.76	0	0	0
062000014	City of Galveston NFIP CRS Rating	49.33	2.26	23,123	20,373	93,965	513	0	0	408.00	262.80	0	0	0

		Reduction in Flood Risk													
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000010	Harris County Hazard Mitigation Action AW-5	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000011	Harris County Hazard Mitigation Action AW-6	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000012	City of Alvin CRS Application	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000013	Brazoria County Increased Cost of Compliance Education	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000014	City of Galveston NFIP CRS Rating	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 – Potentially Feasible Flood Mitigation Strategies Identified by PERG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000015	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.	06000001, 06000007, 06000015	Galveston	120402040300,120402040200,120402040400,120402040100	06000108, 06000107, 06000109, 06000106	Regulatory and Guidance	665.15	Riverine, Coastal, Urban/Local	Galveston County	Galveston	N	100000	
062000016	Waller County Elevation Certificate Requirement	Require and maintain FEMA elevation certificates for all new/improved building in the SFHA. Finished construction Ecs must be submitted prior to OSSF permitting.	06000001, 06000007, 06000010, 06000015	Waller	120401010104,120401010101,120401010102,120401010103,120401010201,120401010202,120401010203,1204010204,120401030101,120401030106,120401030303,120401030305,120401030301,120401030302	06000004, 06000001, 06000002, 06000003, 06000005, 06000006, 06000007, 06000008, 06000046, 06000051, 06000063, 06000065, 06000061, 06000062	Regulatory and Guidance	797.91	Riverine, Urban/Local	Waller County	Waller, Waller, Hempstead, Brooksire, Brookshire Katy Drainage District, Katy	N	50,000	General Revenue (50%)
062000017	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.	06000001, 06000007, 06000010, 06000015	Galveston	120402040200,120402040100	06000107, 06000106	Regulatory and Guidance	1.88	Riverine, Coastal, Urban/Local	City of Kemah	Galveston, Harris County Flood Control District, Kemah	N	100,000	
062000018	Galveston County-wide Education and Outreach	Provide educational information related to preparedness, mitigation, response, and recovery to the public.	06000001, 06000005, 06000006, 06000010, 06000015	Galveston, Harris	120402040300,120402040200,120402040400,120402040100	06000107, 06000109, 06000106	Education and Outreach	664.96	Riverine, Coastal, Urban/Local	Galveston County	Galveston	N	50000	



		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000015	Develop Applicable Plans and Studies to Address Hazard Mitigation in Galveston County	307.84	87.01	48,566	42,184	171,345	680	30	30	910.00	3,412.44	0	0	0
062000016	Waller County Elevation Certificate Requirement	61.21	10.47	505	437	657	1	2	2	25.00	180.47	0	0	0
062000017	Develop Program to Optimize Operation of the Flood Gates at Second Cut Outlet in City of Kemah	0.64	0.96	560	425	3,492	7	0	0	13.00	0.59	0	0	0
062000018	Galveston County-wide Education and Outreach	307.73	87.02	48,564	42,182	171,338	680	30	30	910.00	3,414.69	0	0	0

Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000015	Develop Applicable Plans and Studies to Address Hazard Mitigation in Galveston County	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000016	Waller County Elevation Certificate Requirement	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000017	Develop Program to Optimize Operation of the Flood Gates at Second Cut Outlet in City of Kemah	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000018	Galveston County-wide Education and Outreach	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 – Potentially Feasible Flood Mitigation Strategies Identified by PERG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000019	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.	06000001, 06000005, 06000006, 06000010, 06000015	Walker	120401030101	06000046	Education and Outreach	2.21	Urban/Local	City of New Waverly	Walker, New Waverly	N	10,000	
062000020	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.	06000001, 06000005, 06000006, 06000010, 06000015	Fort Bend	120402040400	06000109	Education and Outreach	2.60	Riverine, Urban/Local	City of Arcola	Fort Bend, Arcola	N	50000	
062000021	City of Todd Mission Public Outreach & Education	Provide educational information related to preparedness, mitigation, response, and recovery to the public.	06000001, 06000005, 06000006, 06000010, 06000015	Grimes	120401020203,120401020206	06000035, 06000038	Education and Outreach	1.95	Riverine, Urban/Local	City of Todd Mission	Todd Mission	N	20000	
062000022	Increase Public Awareness of Hazards in City of Arcola	Increase public awareness of hazards and hazardous areas. Distribute public awareness information regarding flood hazards.	06000001, 06000005, 06000006, 06000010, 06000015	Fort Bend	120402040400	06000109	Education and Outreach	2.60	Riverine, Urban/Local	City of Arcola	Arcola	N	50000	
062000023	Expand Development of Emergency Notification System in Liberty County	Expand development of emergency notification system/work to establish public awareness of emergency notification process.	06000001, 06000005, 06000006, 06000010, 06000015	Liberty	120401030201,120401030108,120401030109,120401030205,120401030402,120401030203,120401030204,120401030202,120401030202,120401030401,120402030104,120402030103,120402030102,120402030101	06000056, 06000053, 06000054, 06000060, 06000070, 06000058, 06000059, 06000057, 06000069, 06000102, 06000101, 06000100, 06000099	Education and Outreach	1,169.77	Riverine, Urban/Local	Liberty County	Liberty, Liberty County Water Control District 1	N	10000	
062000025	Galveston County Stormproof/Retrofit Infrastructure	Stormproof/retrofit critical facilities and infrastructure for county-owned properties and unincorporated areas.	06000001, 06000003, 06000004, 06000015	Galveston	120402040300,120402040200,120402040400,120402040100	06000108, 06000107, 06000109, 06000106	Infrastructure Projects	665.24	Riverine, Coastal, Urban/Local	Galveston County	Galveston, Galveston	Y	5000000	

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000019	Public Information and Awareness in City of New Waverly	0.29	0.08	23	18	19	0	0	0	0.00	0.90	0	0	0
062000020	Promotion of Flood Insurance in City of Arcola	0.08	0.00	41	37	39	0	0	0	0.00	1.23	0	0	0
062000021	City of Todd Mission Public Outreach & Education	0.31	0.00	20	11	25	0	0	0	0.00	1.28	0	0	0
062000022	Increase Public Awareness of Hazards in City of Arcola	0.08	0.00	41	37	39	0	0	0	0.00	1.23	0	0	0
062000023	Expand Development of Emergency Notification System in Liberty County	84.49	27.97	3,617	2,271	4,854	8	7	7	144.00	1,379.38	0	0	0
062000025	Galveston County Stormproof/Retr ofit Infrastructure	307.85	87.04	48,564	42,183	171,340	680	30	30	909.00	3,415.79	0	0	0



Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000019	Public Information and Awareness in City of New Waverly	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000020	Promotion of Flood Insurance in City of Arcola	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000021	City of Todd Mission Public Outreach & Education	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000022	Increase Public Awareness of Hazards in City of Arcola	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000023	Expand Development of Emergency Notification System in Liberty County	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000025	Galveston County Stormproof/Retr ofit Infrastructure	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000026	Implement Stormwater Management Plan in City of Bayou Vista	Implement stormwater management plan to improve drainage during flood and other weather events.	06000001, 06000007, 06000015	Galveston	120402040200	06000107	Regulatory and Guidance	0.44	Riverine, Coastal, Urban/Local	City of Bayou Vista	Bayou Vista	N	25000	
062000027	Walker County Public Information and Awareness	Purchase high water (flood) indicators for low water river crossing for county roads.	06000001, 06000010, 06000015	Walker	120401010104,120401010101,120401010102,120401010103,120401010201,120401010202,120401010203,1204010204,120401030101,120401030106,120401030303,120401030305,120401030301,120401030302	06000004, 06000001, 06000002, 06000003, 06000005, 06000006, 06000007, 06000008, 06000046, 06000051, 06000063, 06000065, 06000061, 06000062	Flood Measurement and Warning	797.69	Riverine, Urban/Local	Walker County	Walker	N	248000	
062000028	City of Bayou Vista Severe Weather Warning Systems	Purchase and install severe weather warning systems	06000001, 06000010, 06000015	Galveston	120402040200	06000107	Flood Measurement and Warning	0.44	Riverine, Coastal, Urban/Local	City of Bayou Vista	Bayou Vista	N	35000	
062000029	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.	06000001, 06000013, 06000014	Waller	120401020103,120401040101	06000028, 06000071	Property Acquisition and Structural Elevation	1.76	Riverine, Urban/Local	Coastal Prairie Conservancy	Harris, Waller, Harris County Flood Control District	N	33000000	

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000026	Implement Stormwater Management Plan in City of Bayou Vista	0.44	0.00	1,121	1,095	1,500	3	0	0	8.00	0.00	0	0	0
062000027	Walker County Public Information and Awareness	61.21	10.47	505	437	657	1	2	2	25.00	180.47	0	0	0
062000028	City of Bayou Vista Severe Weather Warning Systems	0.44	0.00	1,121	1,095	1,500	3	0	0	8.00	0.00	0	0	0
062000029	Natural Infrastructure Project Barker Reservoir Headwater Acquisition and Restoration	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0	0	0

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000026	Implement Stormwater Management Plan in City of Bayou Vista	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000027	Walker County Public Information and Awareness	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000028	City of Bayou Vista Severe Weather Warning Systems	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000029	Natural Infrastructure Project Barker Reservoir Headwater Acquisition and Restoration	0	0	0	0	0	0	0	0	0	0	N	N	N	N



Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000030	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.	06000001, 06000013, 06000014	Harris, Waller	120401020103,120401020101	06000028, 06000026	Property Acquisition and Structural Elevation	3.29	Riverine, Urban/Local	Coastal Prairie Conservancy	Harris, Waller, Harris County Flood Control District	N	32000000	
062000031	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	06000001, 06000015	Brazoria	120402040300,120402040200,120402040400,120402040100	06000108, 06000107, 06000109, 06000106	Property Acquisition and Structural Elevation	1,481.87	Riverine, Urban/Local, Coastal	Brazoria County	Brazoria, Alvin, Iowa Colony, Pearland	Y	60000000	
062000032	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.	06000001, 06000015	Brazoria	120402040300,120402040200,120402040400,120402040100	06000108, 06000107, 06000109, 06000106	Property Acquisition and Structural Elevation	1,481.87	Riverine, Urban/Local, Coastal	Brazoria County	Brazoria, Alvin, Iowa Colony, Pearland	Y	65000000	
062000033	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.	06000001, 06000007, 06000010, 06000015	Harris	120401040402,120401040401	06000084, 06000083	Regulatory and Guidance	3.58	Riverine, Urban/Local	City of Bellaire	Bellaire	N	200000	General Revenue (25%)

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000030	Natural Infrastructure Project Mound Creek Conservation	1.85	0.05	0	0	0	0	0	0	0.00	41.39	0	0	0
062000031	Brazoria County Structure Elevation	179.06	46.51	18,848	14,344	65,547	248	0	0	328.00	8,584.16	0	0	0
062000032	Brazoria County Non-structural Mitigation / Land Preservation	179.06	46.51	18,848	14,344	65,547	248	0	0	328.00	8,584.16	0	0	0
062000033	City of Bellaire Flood Rescue Plan	2.96	0.54	5,879	5,539	37,604	71	0	0	71.00	0.15	0	0	0

Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000030	Natural Infrastructure Project Mound Creek Conservation	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000031	Brazoria County Structure Elevation	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000032	Brazoria County Non-structural Mitigation / Land Preservation	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000033	City of Bellaire Flood Rescue Plan	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000034	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.	06000001, 06000005, 06000006, 06000010, 06000015	Brazoria	120402040300,120402040200,120402040400,120402040100	06000108, 06000107, 06000109, 06000106	Education and Outreach	1,481.87	Riverine, Urban/Local, Coastal	Brazoria County	Brazoria, Alvin, Iowa Colony, Pearland	N	20000	
062000035	Amending Grimes County Floodplain Ordinance	Prohibit the building of any new structures located down-stream of high hazard dams by amending the floodplain ordinance.	06000001, 06000007, 06000015	Grimes	120401010101,120401010301,120401010302,120401010303,120401010103,120401010304,120401010305,120401010306,120401020202,120401020203,120401020207,120401020206	06000001, 06000012, 06000013, 06000014, 06000003, 06000015, 06000016, 06000017, 06000034, 06000035, 06000039, 06000038	Regulatory and Guidance	798.87	Riverine, Urban/Local	Grimes County	Grimes, Todd Mission	N	20000	
062000036	Grimes County Property Acquisition	Per NFIP participation, the acquisition of structures located in the 100-year flood plain and in dam inundation areas.	06000001, 06000015	Grimes	120401010101,120401010301,120401010302,120401010303,120401010103,120401010304,120401010305,120401010306,120401020202,120401020203,120401020207,120401020206	06000012, 06000013, 06000014, 06000003, 06000015, 06000016, 06000017, 06000034, 06000035, 06000039, 06000038	Property Acquisition and Structural Elevation	798.87	Riverine, Urban/Local	Grimes County	Grimes, Todd Mission	Y	95000	



Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000034	Brazoria County Dam and Levee Failure Outreach and Education campaign	179.06	46.51	18,848	14,344	65,547	248	0	0	328.00	8,584.16	0	0	0
062000035	Amending Grimes County Floodplain Ordinance	24.84	3.89	145	76	120	0	1	1	11.00	151.27	0	0	0
062000036	Grimes County Property Acquisition	24.84	3.89	145	76	120	0	1	1	11.00	151.27	0	0	0

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000034	Brazoria County Dam and Levee Failure Outreach and Education campaign	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000035	Amending Grimes County Floodplain Ordinance	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000036	Grimes County Property Acquisition	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000037	Property Acquisition Down-Stream of High Hazard Dams in Grimes County	Acquire homes located down-stream of high hazard dams	06000001, 06000015	Grimes	120401010101,120401010301,120401010302,120401010303,120401010103,120401010304,120401010305,120401010306,1204010202,120401020203,120401020207,120401020206	06000001, 06000012, 06000013, 06000014, 06000003, 06000015, 06000016, 06000017, 06000034, 06000035, 06000039, 06000038	Property Acquisition and Structural Elevation	798.87	Riverine, Urban/Local	Grimes County	Walker	Y	1000000	
062000038	Walker County Property Acquisition in Deep River Plantation Subdivision	Acquire flood loss properties and properties prone to flooding in the Deep River Plantation Subdivision.	06000001, 06000015	Walker	120401010104,120401010101,120401010102,120401010103,120401010201,120401010202,120401010203,120401010204,120401030101,120401030106,120401030303,120401030305,120401030301,120401030302	06000004, 06000001, 06000002, 06000003, 06000005, 06000006, 06000007, 06000008, 06000046, 06000051, 06000063, 06000065, 06000061, 06000062	Property Acquisition and Structural Elevation	797.84	Riverine, Urban/Local	Walker County	Walker	Y	2475000	
062000039	City of Santa Fe Stormproof/reetrofit New Critical Infrastructure	New construction and existing critical facilities and infrastructure should include advanced mitigation techniques.	06000001, 06000007, 06000015	Galveston	120402040300,120402040200	06000108, 06000107	Regulatory and Guidance	17.04	Riverine, Urban/Local	City of Santa Fe	Santa Fe	N	5000000	

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000037	Property Acquisition Down-Stream of High Hazard Dams in Grimes County	24.84	3.89	145	76	120	0	1	1	11.00	151.27	0	0	0
062000038	Walker County Property Acquisition in Deep River Plantation Subdivision	61.21	10.47	505	437	657	1	2	2	25.00	180.46	0	0	0
062000039	City of Santa Fe Stormproof/retr ofit New Critical Infrastructure	0.68	2.37	400	306	798	1	9	9	4.00	12.12	0	0	0



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Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000037	Property Acquisition Down-Stream of High Hazard Dams in Grimes County	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000038	Walker County Property Acquisition in Deep River Plantation Subdivision	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000039	City of Santa Fe Stormproof/retr ofit New Critical Infrastructure	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000040	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.	06000001, 06000003, 06000004, 06000015	Waller	120401020102,120401020103,120401020204,120401020101,120401020201,120401020202,120401020203,120401020205,120401020207,120401020206,120401040102,120401040103,120401040101,120401040203	06000027, 06000028, 06000036, 06000026, 06000033, 06000034, 06000035, 06000037, 06000039, 06000038, 06000072, 06000073, 06000071, 06000077	Infrastructure Projects	515.95	Riverine, Urban/Local	Waller County	Waller, Waller, Hempstead, Brooksire, Brookshire Katy Drainage District, Katy	0	2500000	General Revenue (50%)
062000041	Waller County Flood Hazard Public Information Campaign	Posting of signage at high profile locations and use of social media to communicate threats/concurs. Flood gauges for common flooded road crossings. Burn ban signs.	06000001, 06000005, 06000006, 06000010, 06000015	Waller	120401020102,120401020103,120401020204,120401020101,120401020201,120401020202,120401020203,120401020205,120401020207,120401020206,120401040102,120401040103,120401040101,120401040203	06000027, 06000028, 06000036, 06000026, 06000033, 06000034, 06000035, 06000037, 06000039, 06000038, 06000072, 06000073, 06000071, 06000077	Education and Outreach	515.95	Riverine, Urban/Local	Waller County	Waller, Waller, Hempstead, Brooksire, Brookshire Katy Drainage District, Katy	N	20000	General Revenue (50%)

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000040	Waller County Drainage System Maintenance	28.48	5.59	1,067	708	2,410	6	19	19	41.00	1,357.32	0	0	0
062000041	Waller County Flood Hazard Public Information Campaign	28.48	5.59	1,067	708	2,410	6	19	19	41.00	1,357.32	0	0	0

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000040	Waller County Drainage System Maintenance	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000041	Waller County Flood Hazard Public Information Campaign	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000042	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.	06000001, 06000007, 06000015	Waller	120401020102,120401020103,120401020204,120401020101,120401020201,120401020202,120401020203,120401020205,120401020207,120401020206,120401040102,120401040103,120401040101,120401040203	06000027, 06000028, 06000036, 06000026, 06000033, 06000034, 06000035, 06000037, 06000039, 06000038, 06000072, 06000073, 06000071, 06000077	Regulatory and Guidance	515.95	Riverine, Urban/Local	Waller County	Waller, Waller, Hempstead, Brooksire, Brookshire Katy Drainage District, Katy	N	100000	General Revenue (100%)
062000043	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.	06000001, 06000005, 06000006, 06000010, 06000015	Walker	120401010104,120401010101,120401010102,120401010103,120401010201,120401010202,120401010203,1204010204,120401030101,120401030106,120401030303,120401030305,120401030301,120401030302	06000004, 06000004, 06000001, 06000002, 06000003, 06000005, 06000006, 06000007, 06000008, 06000046, 06000051, 06000063, 06000065, 06000061, 06000062	Education and Outreach	797.84	Riverine, Urban/Local	Walker County	Walker, Huntsville, New Waverly	N	850000	



Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000042	Waller County Freeboard Requirement Update	28.48	5.59	1,067	708	2,410	6	19	19	41.00	1,357.32	0	0	0
062000043	Install Outdoor Early warning System in Walker County	61.21	10.47	505	437	657	1	2	2	25.00	180.46	0	0	0

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000042	Waller County Freeboard Requirement Update	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000043	Install Outdoor Early warning System in Walker County	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000044	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.	06000001, 06000005, 06000006, 06000010, 06000015	Walker	120401010104,120401010101,120401010102,120401010103,120401010201,120401010202,120401010203,120401010204,120401030101,120401030106,120401030303,120401030305,120401030301,120401030302	06000004, 06000001, 06000002, 06000003, 06000005, 06000006, 06000007, 06000008, 06000046, 06000051, 06000063, 06000065, 06000061, 06000062	Education and Outreach	797.84	Riverine, Urban/Local	Walker County	Walker, Huntsville, New Waverly	N	20000	
062000045	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.	06000001, 06000005, 06000006, 06000010, 06000015	Walker	120401010104,120401010101,120401010102,120401010103,120401010201,120401010202,120401010203,120401010204,120401030101,120401030106,120401030303,120401030305,120401030301,120401030302	06000004, 06000001, 06000002, 06000003, 06000005, 06000006, 06000007, 06000008, 06000046, 06000051, 06000063, 06000065, 06000061, 06000062	Education and Outreach	797.84	Riverine, Urban/Local	Walker County	Walker, Huntsville	N	4000000	
062000046	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	06000001, 06000003, 06000004, 06000015	Liberty, Montgomery, San Jacinto	120401030201,120401030108,120401030109,120401030203,120401030202,120401030401	06000056, 06000053, 06000054, 06000058, 06000057, 06000069	Infrastructure Projects	18.74	Riverine, Urban/Local	City of Cleveland	Cleveland, San Jacinto, Montgomery	N	5000000	

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000044	Walker County Public Hazard Information and Awareness Campaign	61.21	10.47	505	437	657	1	2	2	25.00	180.46	0	0	0
062000045	Retrofit and Harden the Emergency Operations Center Serving Walker County	61.21	10.47	505	437	657	1	2	2	25.00	180.46	0	0	0
062000046	City of Cleveland Drainage Maintenance	6.83	1.08	261	133	1,267	0	1	1	27.00	28.88	0	0	0

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000044	Walker County Public Hazard Information and Awareness Campaign	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000045	Retrofit and Harden the Emergency Operations Center Serving Walker County	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000046	City of Cleveland Drainage Maintenance	0	0	0	0	0	0	0	0	0	0	N	N	N	N



Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by BEPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000047	City of Hilcrest Village Land Acquisition	Purchase additional land for retention pond construction to mitigate flooding in flood zones.	06000001, 06000015	Brazoria	120402040400	06000109	Property Acquisition and Structural Elevation	0.44	Riverine, Urban/Local	City of Hillcrest Village	Hillcrest Village	Y	250000	
062000048	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	06000001, 06000015	Brazoria	120402040200,120402040400,120402040100	06000107, 06000109, 06000106	Property Acquisition and Structural Elevation	27.41	Riverine, Urban/Local	City of Manvel	Manvel	Y	1700000	
062000049	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.	06000001, 06000010, 06000015	Harris	120401040402,120401040401	06000084, 06000083	Flood Measurement and Warning	3.58	Riverine, Urban/Local	City of Bellaire	Bellaire, Harris County Flood Control District	N	150000	General Revenue (25%)
062000050	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.	06000001, 06000003, 06000004, 06000015	Galveston	120402040200	06000107	Infrastructure Projects	0.45	Riverine, Urban/Local, Coastal	City of Bayou Vista	Bayou Vista	N	100000	
062000051	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.	06000001, 06000003, 06000004, 06000015	Galveston, Harris	120402040200,120402040100	06000107, 06000106	Infrastructure Projects	20.83	Riverine, Urban/Local	City of Friendswood	Friendswood, Harris, Galveston	N	1400000	
062000052	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.	06000001, 06000015	Galveston, Harris	120402040200,120402040100	06000107, 06000106	Property Acquisition and Structural Elevation	52.89	Riverine, Urban/Local	City of League City	League City	Y	300000000	

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000047	City of Hilcrest Village Land Acquisition	0.19	0.04	128	121	333	1	0	0	2.00	0.13	0	0	0
062000048	City of Manvel Property Acquisition	8.41	0.78	1,250	966	8,190	8	0	0	43.00	178.80	0	0	0
062000049	City of Bellaire Flood Early Warning System	2.96	0.54	5,879	5,539	37,604	71	0	0	71.00	0.15	0	0	0
062000050	City of Bayou Vista Management Practices for Securing Windblown Debris in Canals.	0.45	0.00	1,122	1,095	1,502	3	0	0	8.00	0.00	0	0	0
062000051	Maintain Drainage Systems and Culverts in City of Friendswood	5.12	2.80	1,680	1,601	5,467	2	5	5	38.00	18.37	0	0	0
062000052	City of League City Property Acquisition and Relocation	16.74	10.14	5,251	4,835	20,978	25	2	2	105.00	1,308.19	0	0	0

Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000047	City of Hilcrest Village Land Acquisition	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000048	City of Manvel Property Acquisition	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000049	City of Bellaire Flood Early Warning System	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000050	City of Bayou Vista Management Practices for Securing Windblown Debris in Canals.	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000051	Maintain Drainage Systems and Culverts in City of Friendswood	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000052	City of League City Property Acquisition and Relocation	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000053	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.	06000001, 06000003, 06000004, 06000015	Galveston	120402040300,120402040200	06000108, 06000107	Infrastructure Projects	17.04	Riverine, Urban/Local	City of Santa Fe	Santa Fe	Y	2000000	
062000054	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.	06000001, 06000003, 06000004, 06000015	Galveston	120402040300,120402040200	06000108, 06000107	Infrastructure Projects	17.04	Urban/Local	City of Santa Fe	Santa Fe	N	5000	
062000055	Liberty County Floodplain Acquisition	Acquisition of property in the floodplain.	06000001, 06000015	Liberty	120402040300,120402040200,120402040400,120402040100	06000108, 06000107, 06000109, 06000106	Property Acquisition and Structural Elevation	664.95	Riverine, Urban/Local	Liberty County	Liberty, Dayton	Y	750000	
062000056	City of Galveston Floodplain Manager Increase	Increase and maintain number of floodplain managers in the building division through training and certification.	06000001, 06000007, 06000015	Galveston	120402040300,120402040200,120402040400,120402040500	06000108, 06000107, 06000109, 06000110	Regulatory and Guidance	211.08	Riverine, Urban/Local, Coastal	City of Galveston	Galveston	N	10000	
062000057	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.	06000001, 06000015	Galveston	120402040300,120402040200,120402040400,120402040500	06000108, 06000107, 06000109, 06000110	Property Acquisition and Structural Elevation	211.08	Riverine, Urban/Local, Coastal	City of Galveston	Galveston, Galveston	Y	80000	
062000058	City of Bunker Hill Village Non-Structural Mitigation Projects	Non-structural mitigation measure - buried powerlines, tree management and generators	06000001,06000015	Harris	120401040303	06000080	Other	1.44	Riverine, Urban/Local	City of Bunker Hill Village	Harris, Harris County Flood Control District, Bunker Hill Village,	N	100000	

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Flood Risk												
		Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000053	City of Santa Fe - Harden Existing Critical Facilities and Infrastructure	0.68	2.37	400	306	798	1	9	9	4.00	12.12	0	0	0
062000054	City of Santa Fe - Drainage System Maintenance	0.68	2.37	400	306	798	1	9	9	4.00	12.12	0	0	0
062000055	Liberty County Floodplain Acquisition	307.76	87.02	48,570	42,185	171,395	681	30	30	910.00	3,412.02	0	0	0
062000056	City of Galveston Floodplain Manager Increase	76.41	2.28	21,858	19,143	93,583	509	0	0	409.00	260.88	0	0	0
062000057	City of Galveston SRL and RL Property Mitigation	76.41	2.28	21,858	19,143	93,583	509	0	0	409.00	260.88	0	0	0
062000058	City of Bunker Hill Village Non-Structural Mitigation Projects	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0	0	0



Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000053	City of Santa Fe - Harden Existing Critical Facilities and Infrastructure	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000054	City of Santa Fe - Drainage System Maintenance	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000055	Liberty County Floodplain Acquisition	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000056	City of Galveston Floodplain Manager Increase	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000057	City of Galveston SRL and RL Property Mitigation	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000058	City of Bunker Hill Village Non-Structural Mitigation Projects	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000059	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.	06000001, 06000003, 06000004, 06000015	Grimes	120401020203,120401020206	06000035, 06000038	Infrastructure Projects	2.00	Riverine, Urban/Local	City of Todd Mission	Grimes, Todd Mission	Y	25000	
062000060	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.	06000001, 06000015	Harris	N/A	N/A	Property Acquisition and Structural Elevation	1,770.82	Riverine, Urban/Local, Coastal	Harris County	Harris, Houston, Harris County Flood Control District, Liberty County Water Control District 1	Y	75000000	
062000061	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.	06000001, 06000007, 06000015	Brazoria, Galveston, Fort Bend	120402040300,120402040200,120402040400,120402040100	06000108, 06000107, 06000109, 06000106	Regulatory and Guidance	25.09	Riverine, Urban/Local	City of Alvin	Alvin	N	100000	Entity Budget/Funds (100%)
062000062	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.	06000001, 06000015	Brazoria, Fort Bend, Harris	120401040501,120402040200,120402040400,120402040100	06000085, 06000107, 06000109, 06000106	Property Acquisition and Structural Elevation	48.68	Riverine, Urban/Local	City of Pearland	Pearland, Brazoria, Brazoria County Drainage District 4	Y	100000	Other (0%)

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000059	Hardening of Critical Facilities in City of Mission Todd	0.33	0.00	17	11	19	0	0	0	0.00	1.12	0	0	0
062000060	Harris County Mitigation Buyout and Relocation Program	444.51	200.09	143,642	120,807	976,798	2,332	89	89	2,408.00	5,993.47	0	0	0
062000061	City of Alvin Full Time Floodplain Administrator	444.51	200.09	3,445	2,605	21,569	18	0	0	57.00	262.30	0	0	0
062000062	City of Pearland SRL and RL Property Acquisition	3.75	9.13	4,791	3,666	20,157	22	0	0	76.00	137.47	0	0	0

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Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000059	Hardening of Critical Facilities in City of Mission Todd	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000060	Harris County Mitigation Buyout and Relocation Program	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000061	City of Alvin Full Time Floodplain Administrator	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000062	City of Pearland SRL and RL Property Acquisition	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000063	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.	06000001, 06000015	Harris	N/A	N/A	Property Acquisition and Structural Elevation	1,770.82	Riverine, Urban/Local, Coastal	Harris County Flood Control District (HCFCD)	Harris, Houston, Harris County Flood Control District, Liberty County Water Control District 1	Y	500000000	
062000064	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.	06000001, 06000011, 06000012, 06000015	Galveston	120402040200	06000107	Property Acquisition and Structural Elevation	14.23	Riverine, Urban/Local, Coastal	Galveston County	Galveston, Galveston, Jamaica Beach, Hitchcock, La Marque, Santa Fe, Texas City,	N	30000000	
062000065	Liberty County Regional Coordination	Work with adjoining counties regarding flooding and drainage issues.	06000001, 06000011, 06000012, 06000015	Liberty	120401030201,120401030108,120401030109,120401030205,120401030402,120401030203,120401030204,120401030202,120401030401,120402030104,120402030103,120402030102,120402030101	06000056, 06000053, 06000054, 06000060, 06000070, 06000058, 06000059, 06000057, 06000069, 06000102, 06000101, 06000100, 06000099	Other	1,169.92	Riverine, Urban/Local, Coastal	Liberty County	Liberty, Chambers, Harris, San Jacinto, Hardin, Liberty County Water Control District 1	N	500000	



Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000063	Harris County Wide Voluntary Buyout Program	84.53	27.97	143,642	120,807	976,798	2,332	89	89	2,408.00	5,993.47	0	0	0
062000064	Mitigate Repetitive Flood Claim & Severe Repetitive Loss Properties in Galveston County	8.79	0.87	829	767	1,612	8	1	1	31.00	37.85	0	0	0
062000065	Liberty County Regional Coordination	12.46	10.60	3,619	2,272	4,855	8	7	7	144.00	1,379.49	0	0	0

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000063	Harris County Wide Voluntary Buyout Program	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000064	Mitigate Repetitive Flood Claim & Severe Repetitive Loss Properties in Galveston County	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000065	Liberty County Regional Coordination	0	0	0	0	0	0	0	0	0	0	N	N	N	N

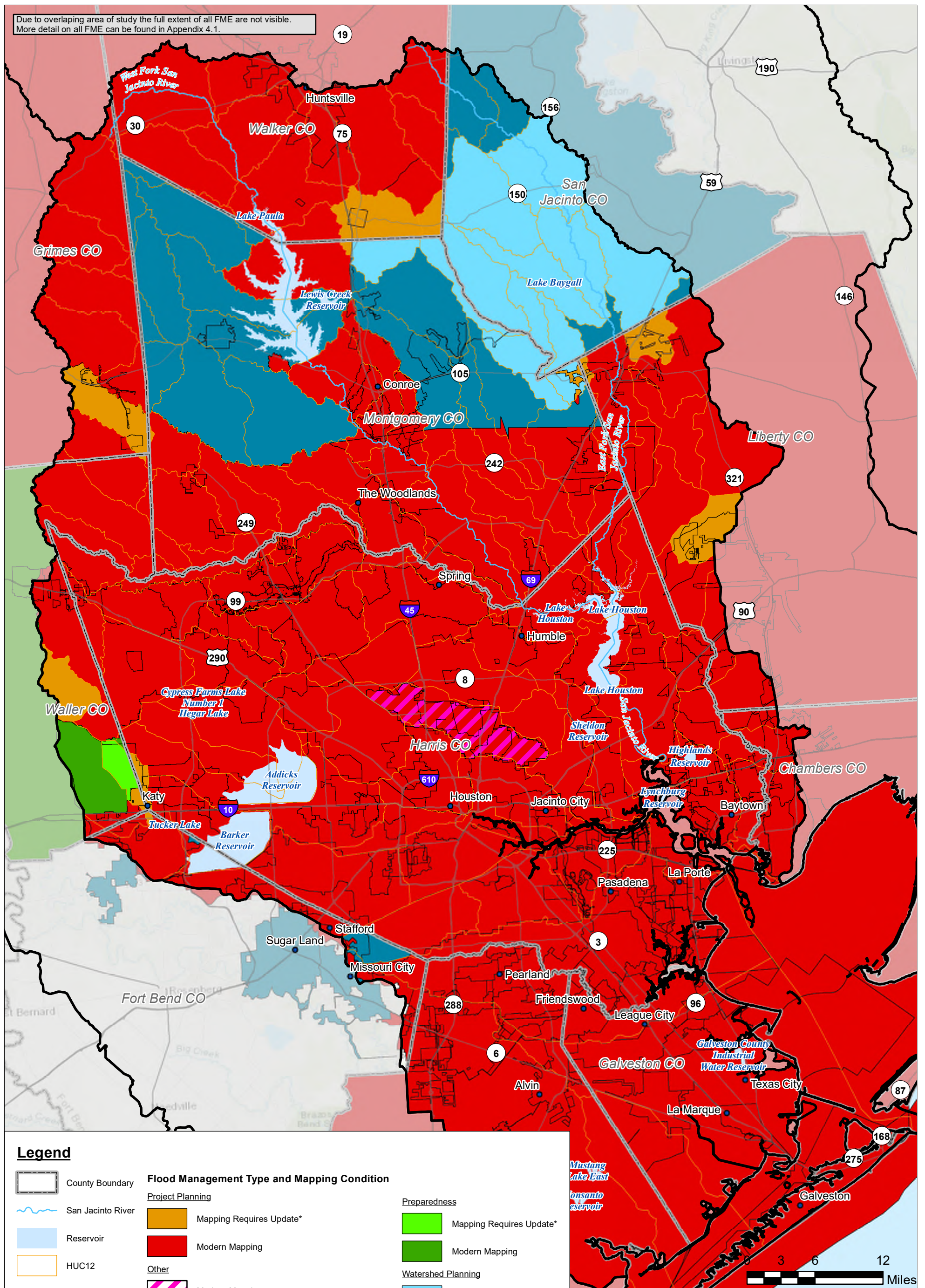
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**Appendix 5-1:**  
**Map 19 - Recommended FMEs**

---



Due to overlapping area of study the full extent of all FME are not visible. More detail on all FME can be found in Appendix 4.1.



\*Mapping requires updates when it is found to meet the following conditions

- Mapping limited to main reach of channel system
- Effective FEMA mapping is more than 10 years old
- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

**See Map 5 for more information on existing flood map gaps**



# San Jacinto Regional Flood Plan

## Recommended Flood Management Evaluations

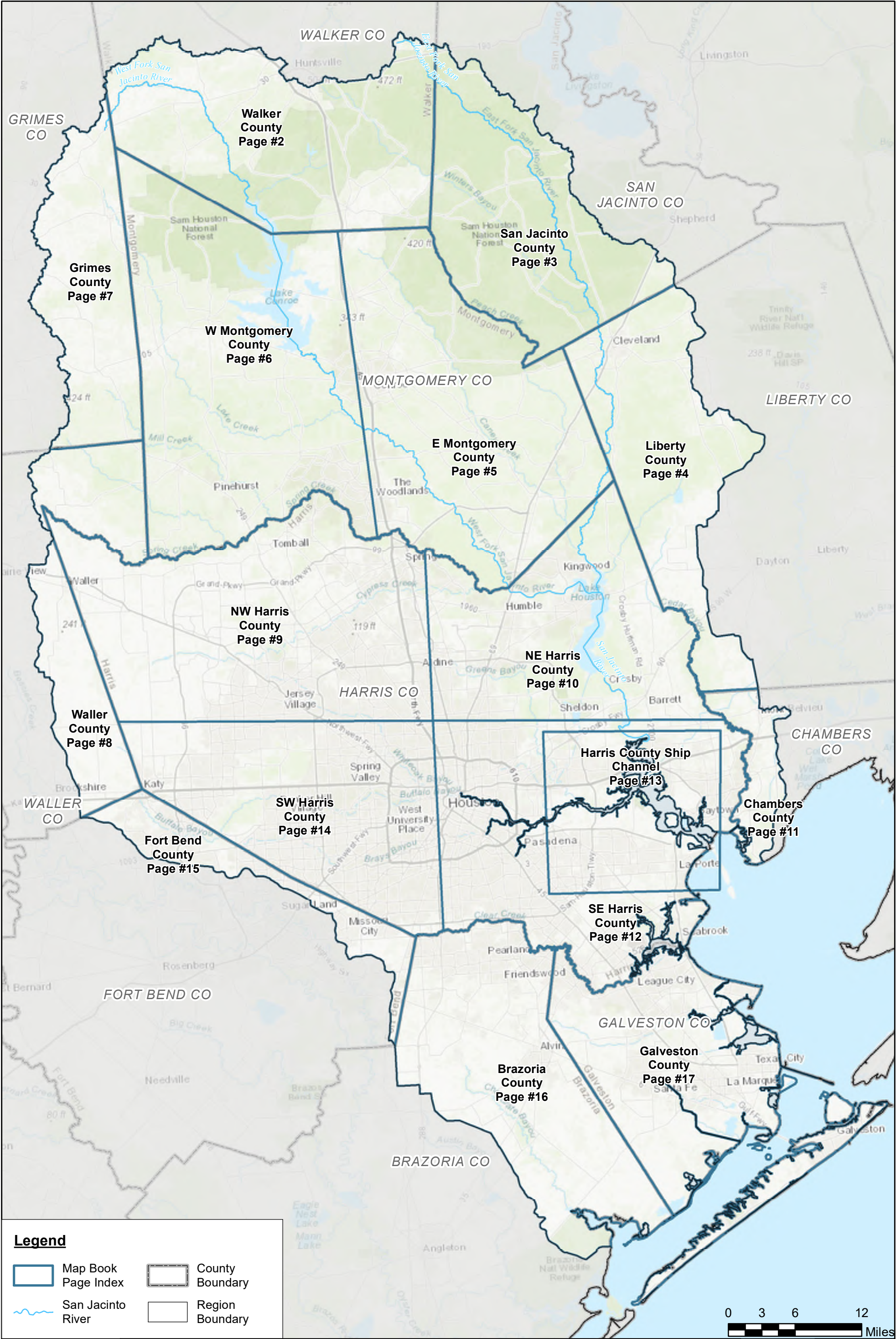


## MAP 19

### Overview

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert





# San Jacinto Regional Flood Plan

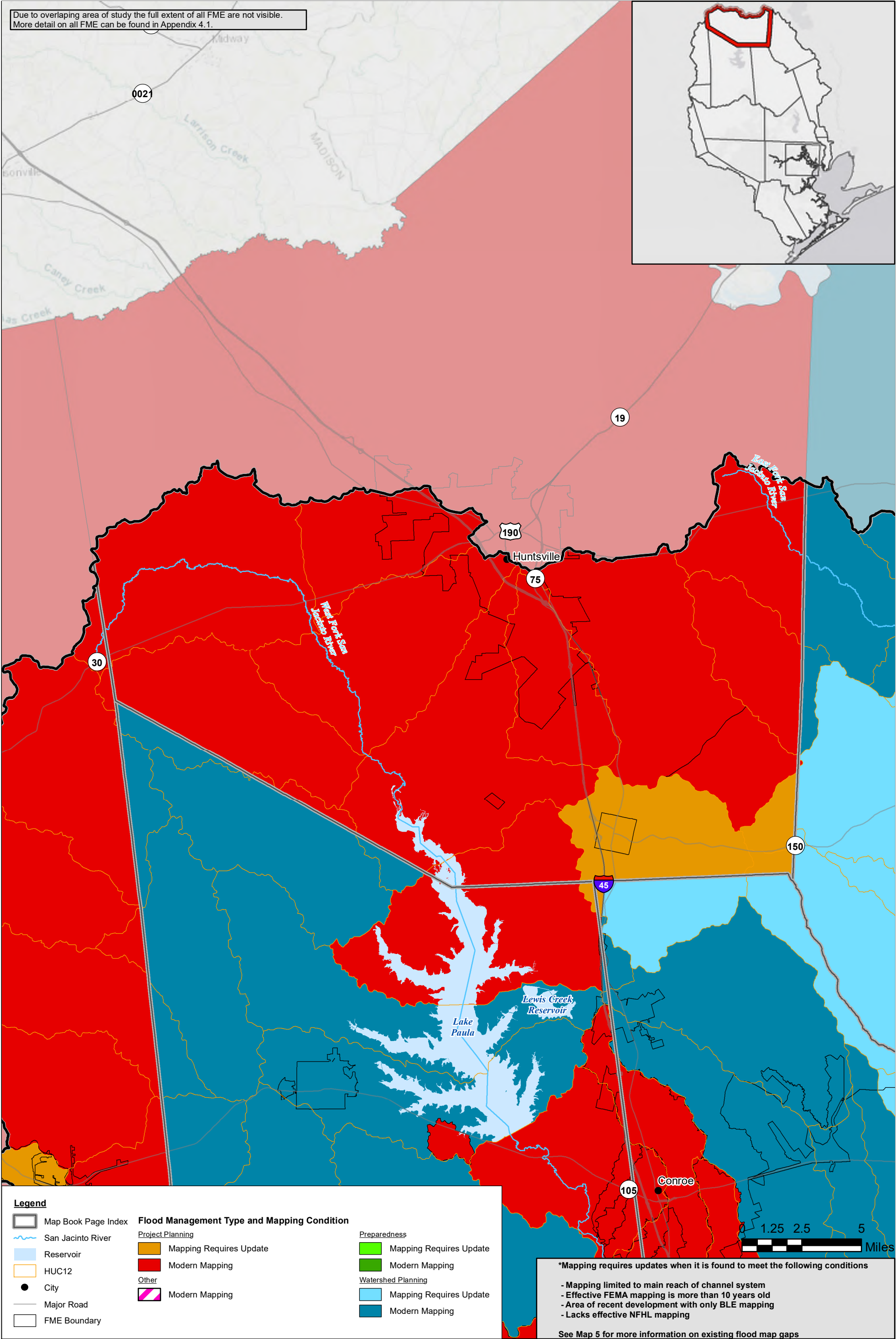
## Recommended Flood Management Evaluations - Index



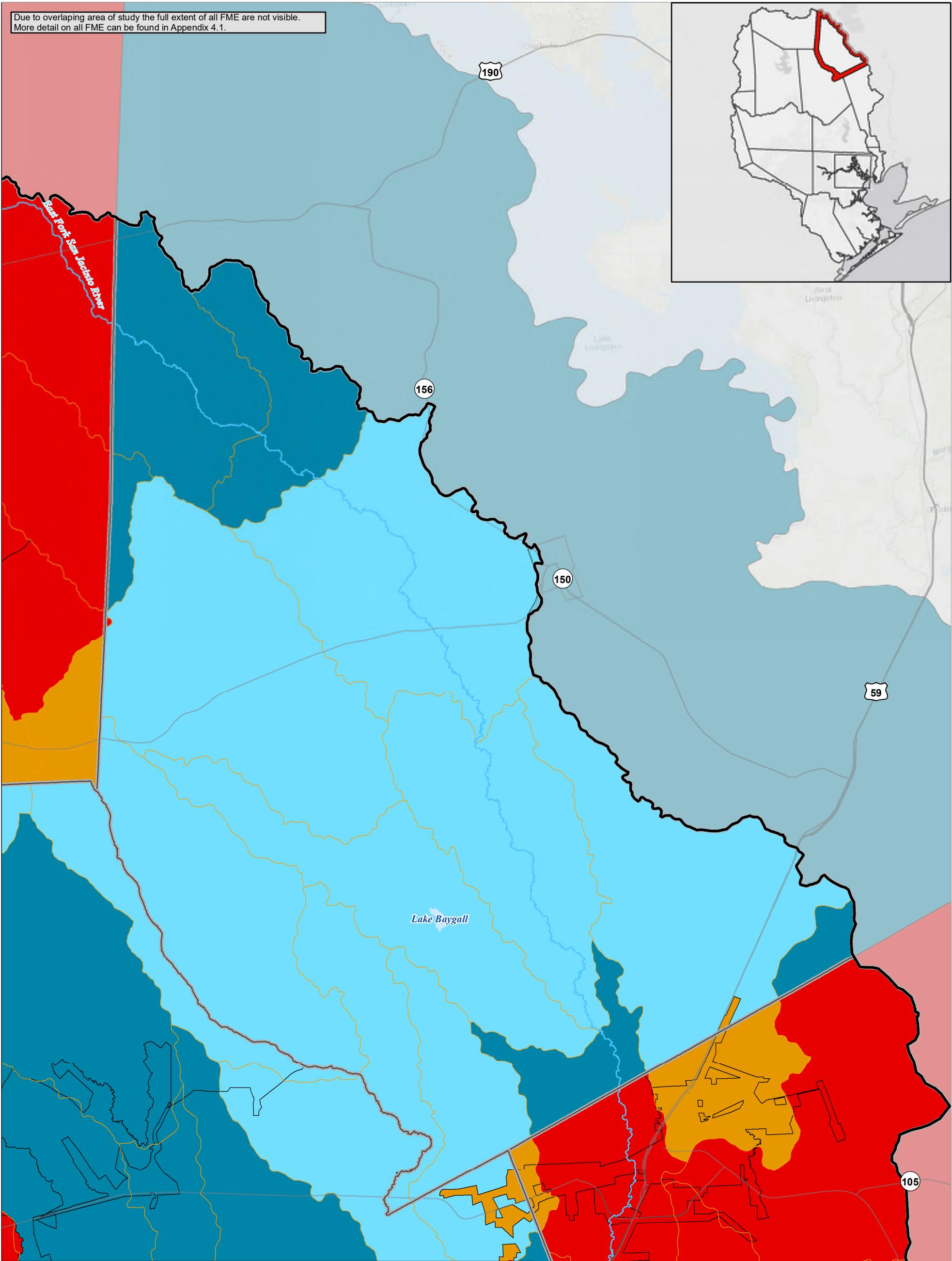
**MAP 19**  
**FIGURE 1 of 17**

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert





Due to overlapping area of study the full extent of all FME are not visible.  
More detail on all FME can be found in Appendix 4.1.



**Legend**

- Map Book Page Index
- San Jacinto River
- Reservoir
- HUC12
- City
- Major Road
- FME Boundary

**Flood Management Type and Mapping Condition**

**Project Planning**

- Mapping Requires Update
- Modern Mapping

**Other**

- Modern Mapping

**Preparedness**

- Mapping Requires Update
- Modern Mapping

**Watershed Planning**

- Mapping Requires Update
- Modern Mapping



- \*Mapping requires updates when it is found to meet the following conditions**
- Mapping limited to main reach of channel system
  - Effective FEMA mapping is more than 10 years old
  - Area of recent development with only BLE mapping
  - Lacks effective NFHL mapping

See Map 5 for more information on existing flood map gaps



San Jacinto Regional Flood Plan

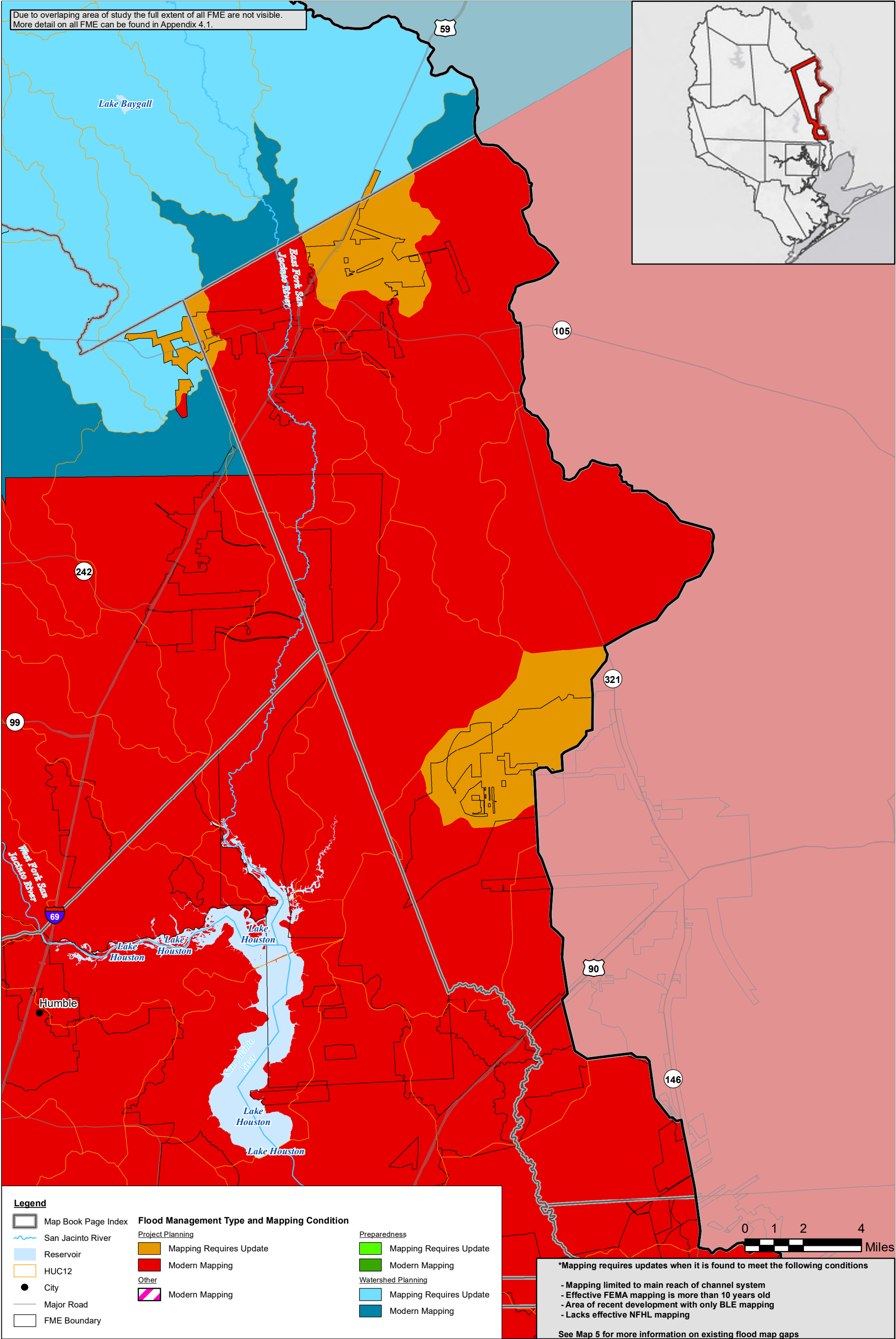
Recommended Flood Management Evaluations - San Jacinto County

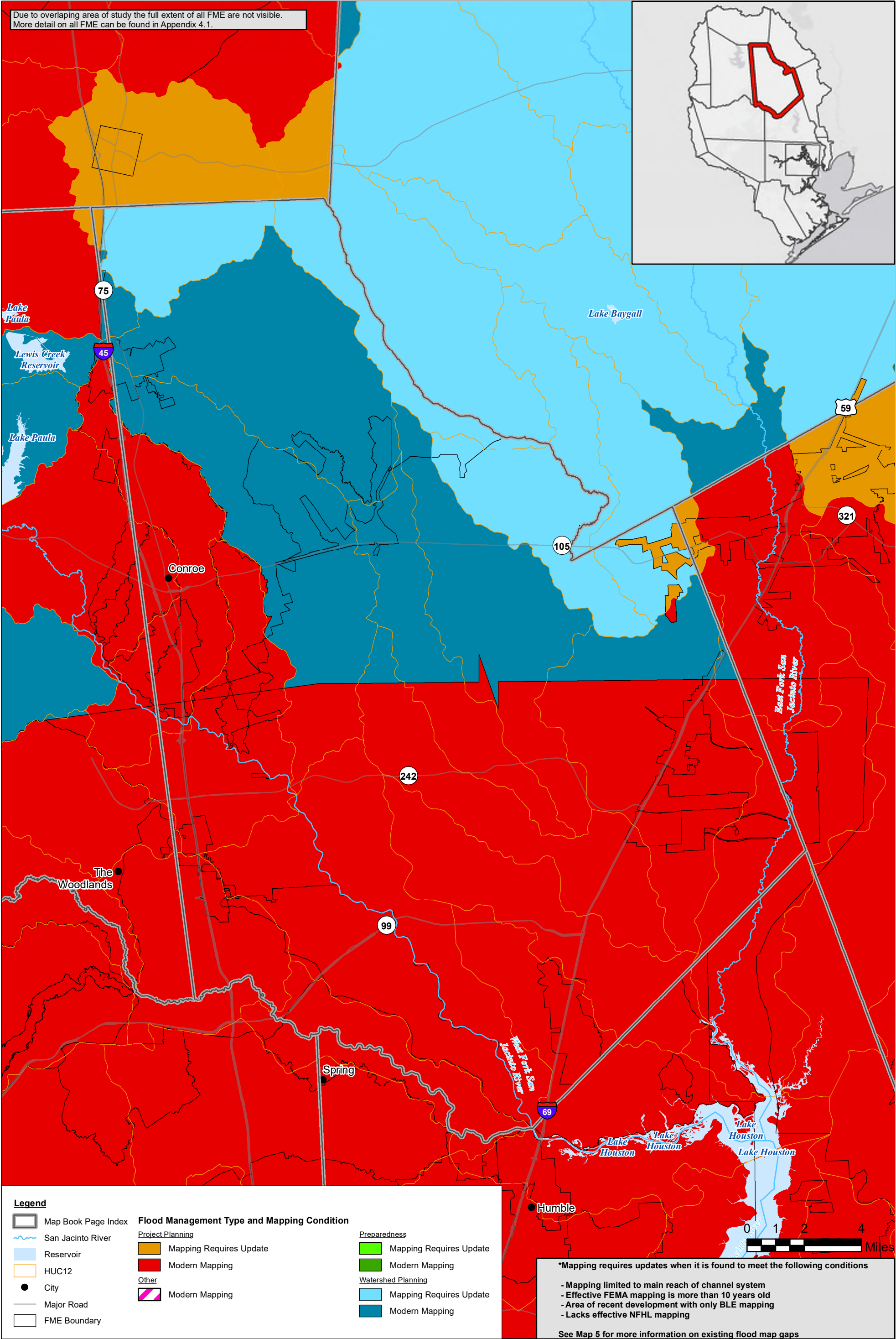


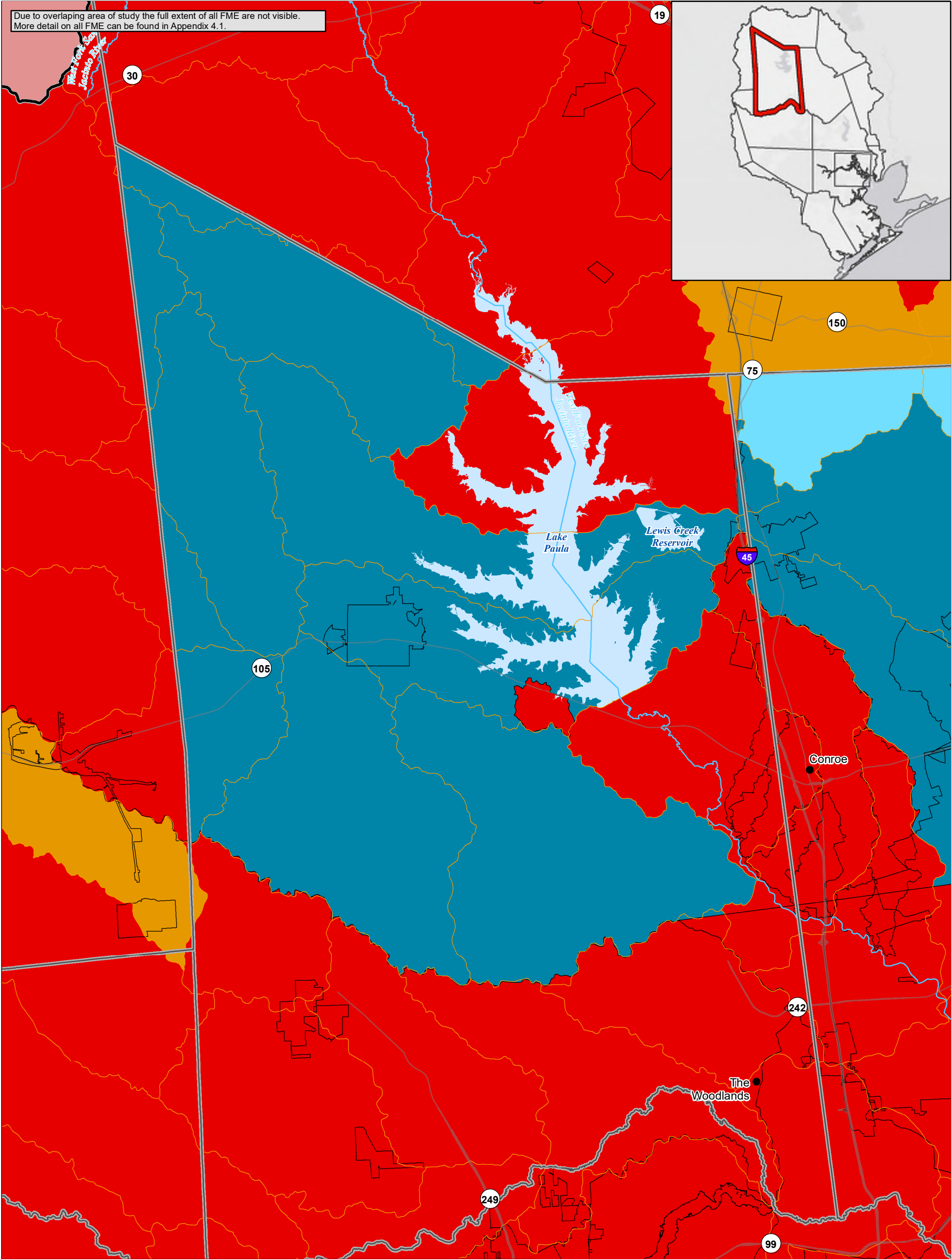
**MAP 19**  
**FIGURE 3 of 17**

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert









**Legend**

- Map Book Page Index
- San Jacinto River
- Reservoir
- HUC12
- City
- Major Road
- FME Boundary

**Flood Management Type and Mapping Condition**

**Project Planning**

- Mapping Requires Update
- Modern Mapping

**Other**

- Modern Mapping

**Preparedness**

- Mapping Requires Update
- Modern Mapping

**Watershed Planning**

- Mapping Requires Update
- Modern Mapping

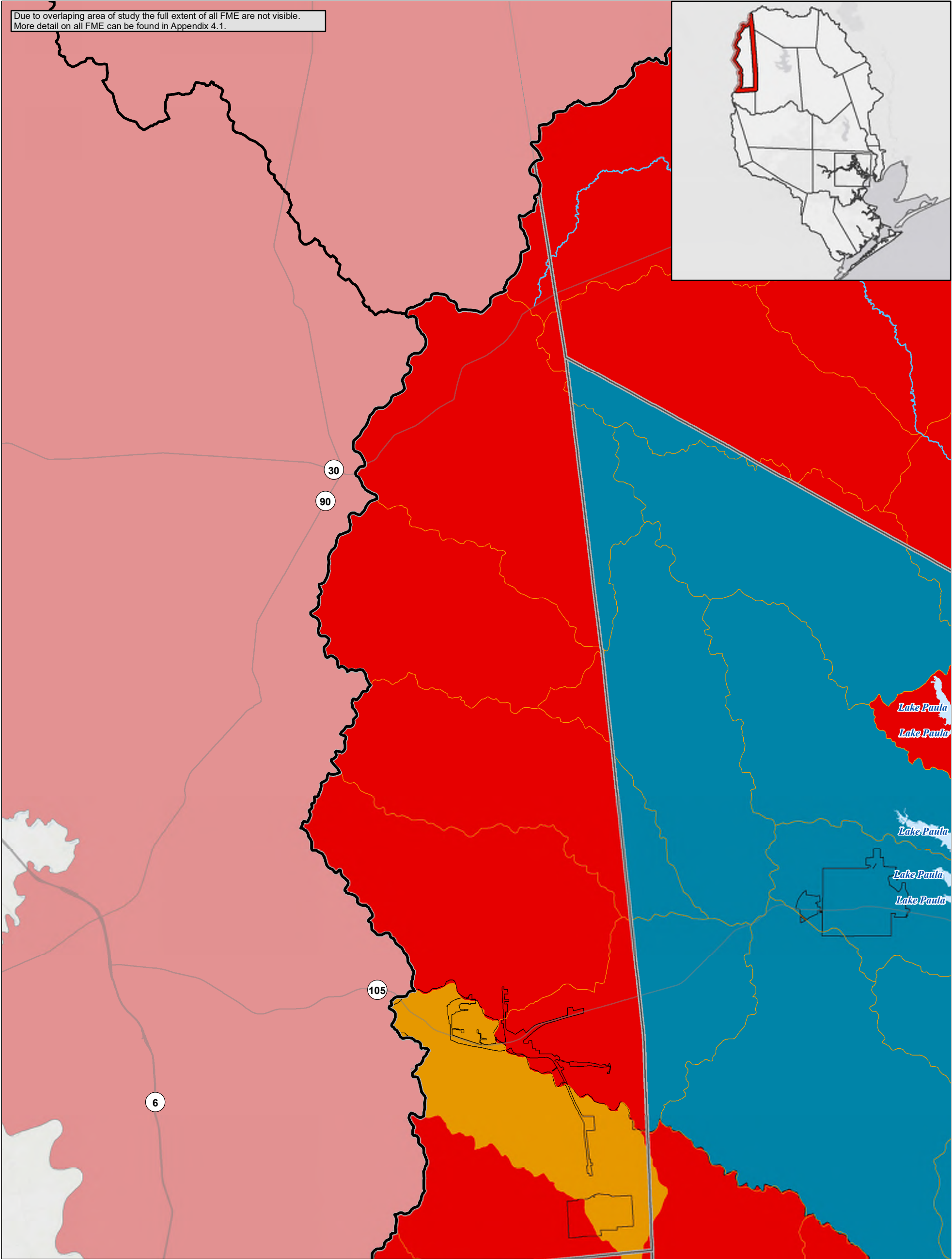
**\*Mapping requires updates when it is found to meet the following conditions**

- Mapping limited to main reach of channel system
- Effective FEMA mapping is more than 10 years old
- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

See Map 5 for more information on existing flood map gaps

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert





**Legend**

- Map Book Page Index
- San Jacinto River
- Reservoir
- HUC12
- City
- Major Road
- FME Boundary

**Flood Management Type and Mapping Condition**

**Project Planning**

- Mapping Requires Update
- Modern Mapping

**Other**

- Modern Mapping

**Preparedness**

- Mapping Requires Update
- Modern Mapping

**Watershed Planning**

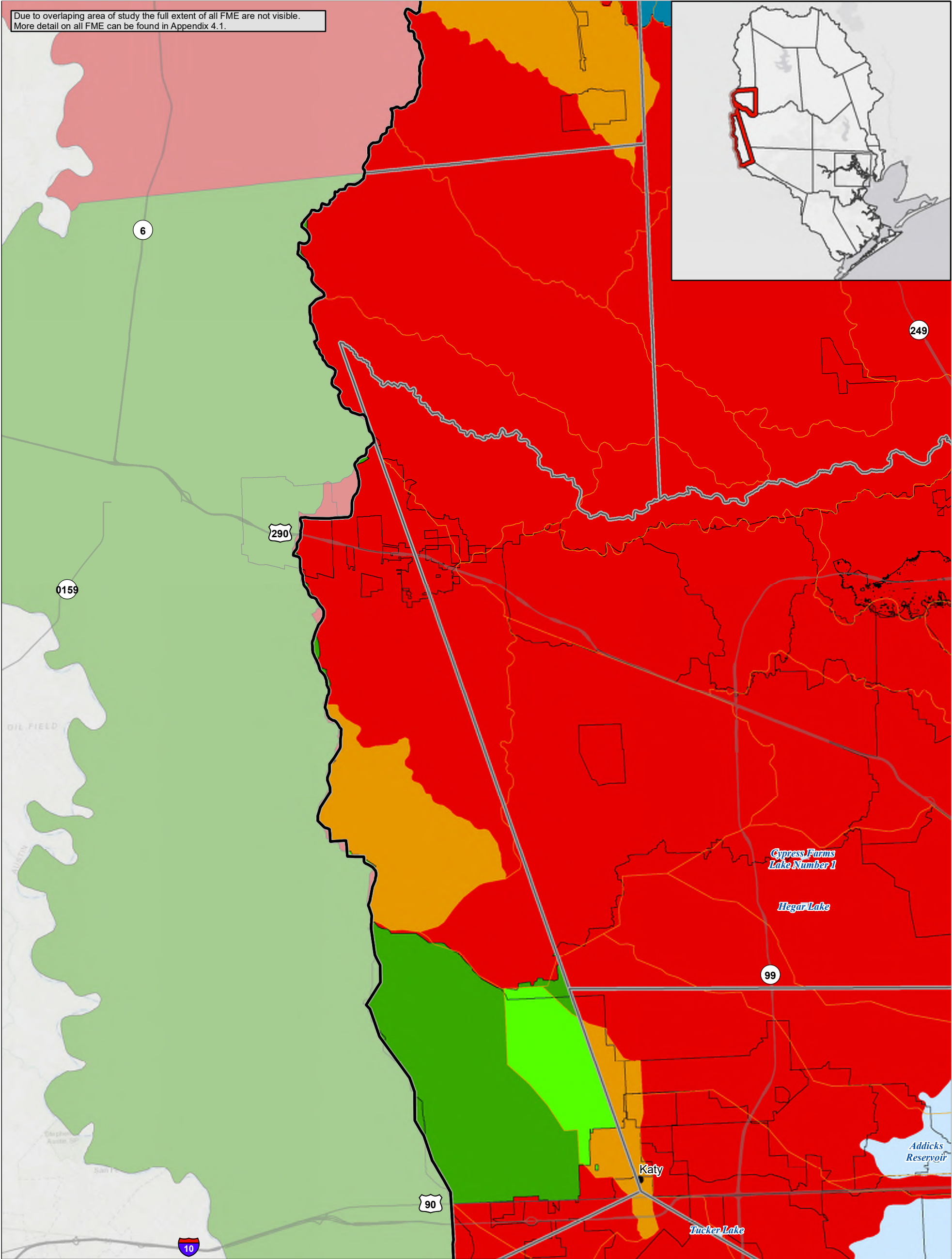
- Mapping Requires Update
- Modern Mapping

**\*Mapping requires updates when it is found to meet the following conditions**

- Mapping limited to main reach of channel system
- Effective FEMA mapping is more than 10 years old
- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

See Map 5 for more information on existing flood map gaps

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



**Legend**

Map Book Page Index	<b>Flood Management Type and Mapping Condition</b>	<b>Preparedness</b>
San Jacinto River	<b>Project Planning</b>	Mapping Requires Update
Reservoir	Mapping Requires Update	Modern Mapping
HUC12	Modern Mapping	<b>Watershed Planning</b>
City	<b>Other</b>	Mapping Requires Update
Major Road	Modern Mapping	Modern Mapping
FME Boundary		

**\*Mapping requires updates when it is found to meet the following conditions**

- Mapping limited to main reach of channel system
- Effective FEMA mapping is more than 10 years old
- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

See Map 5 for more information on existing flood map gaps



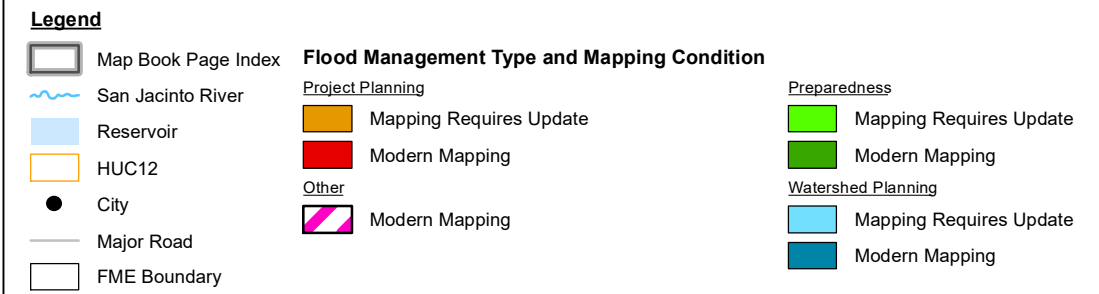
# San Jacinto Regional Flood Plan

## Recommended Flood Management Evaluations - Waller County



**MAP 19**  
**FIGURE 8 of 17**



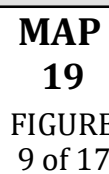


- Mapping limited to main reach of channel system
- Effective FEMA mapping is more than 10 years old
- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

0 1.5 3 6 Miles

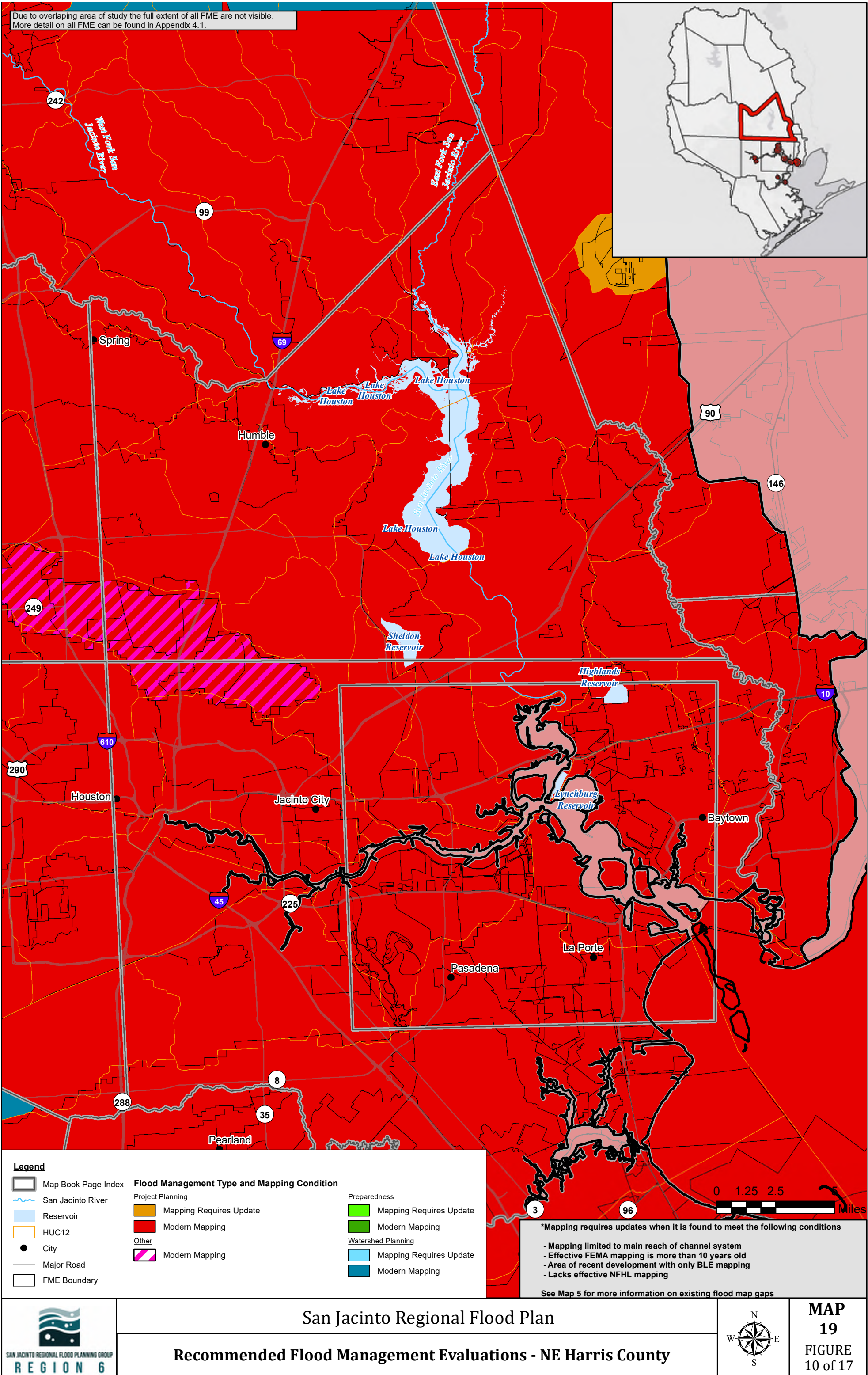


## Recommended Flood Management Evaluations - NW Harris County

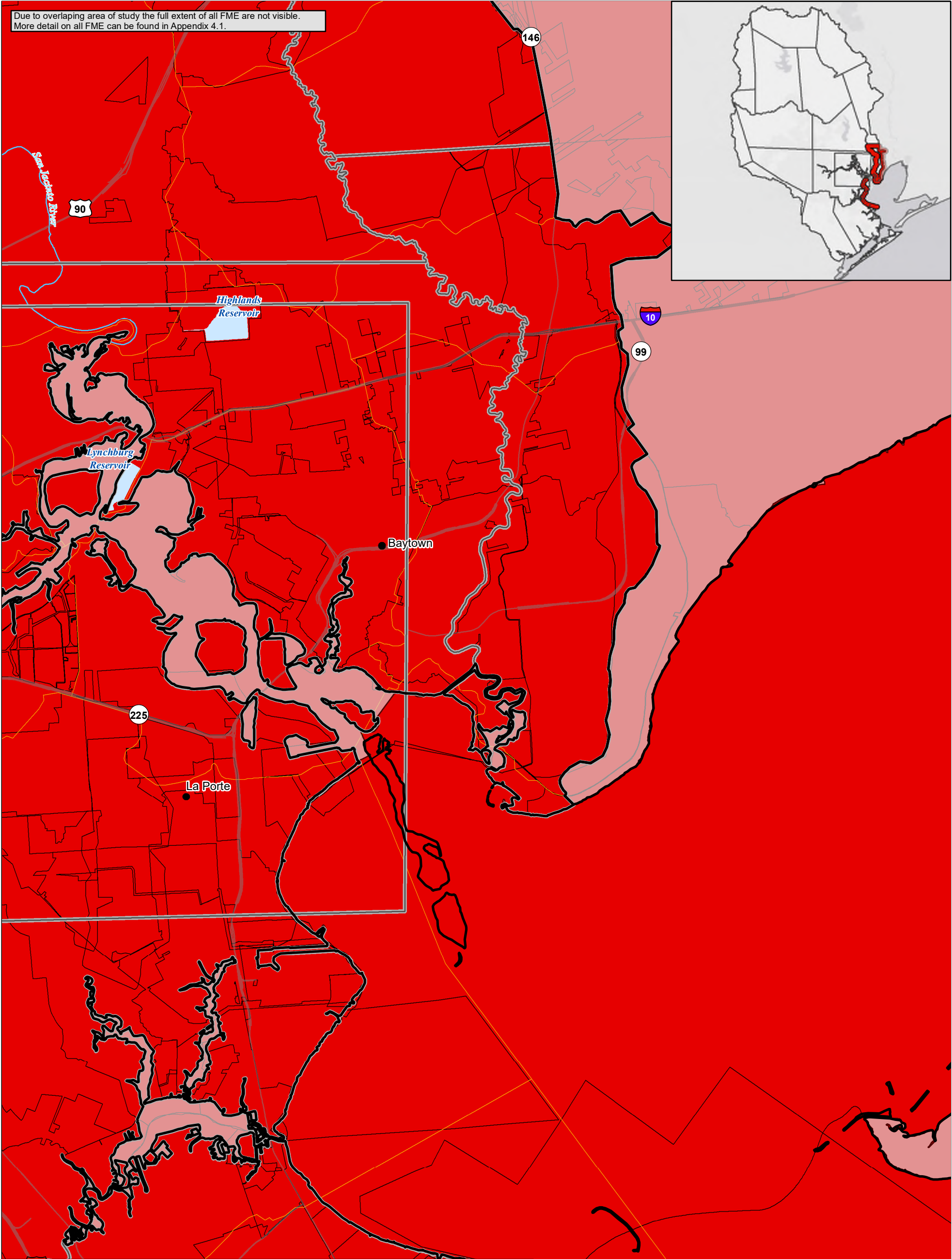


Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert

Due to overlapping area of study the full extent of all FME are not visible.  
More detail on all FME can be found in Appendix 4.1.







**Legend**

Map Book Page Index

San Jacinto River

Reservoir

HUC12

City

Major Road

FME Boundary

**Flood Management Type and Mapping Condition**

**Project Planning**

Mapping Requires Update

Modern Mapping

**Other**

Modern Mapping

**Preparedness**

Mapping Requires Update

Modern Mapping

**Watershed Planning**

Mapping Requires Update

Modern Mapping

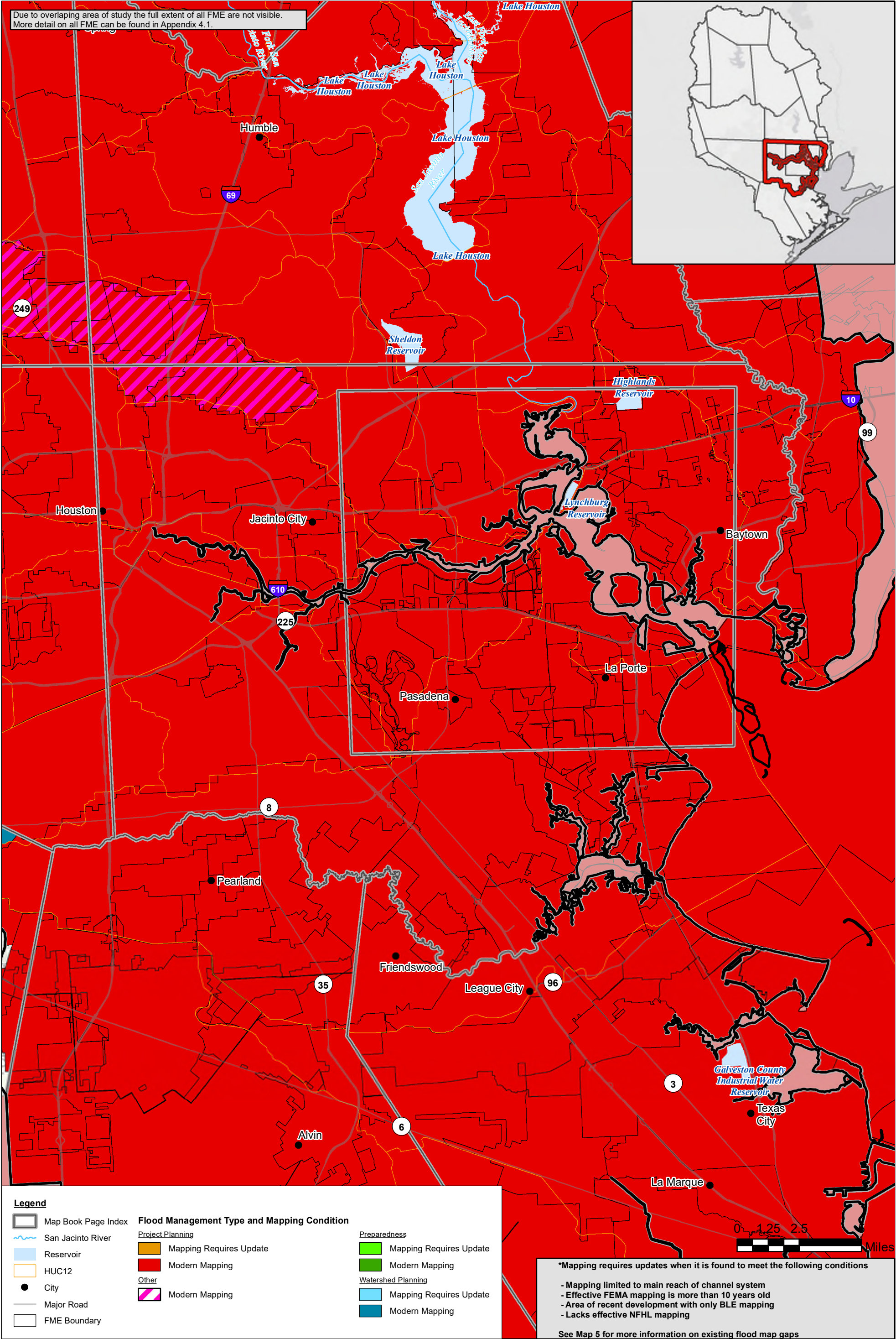
0 0.75 1.5 3 Miles

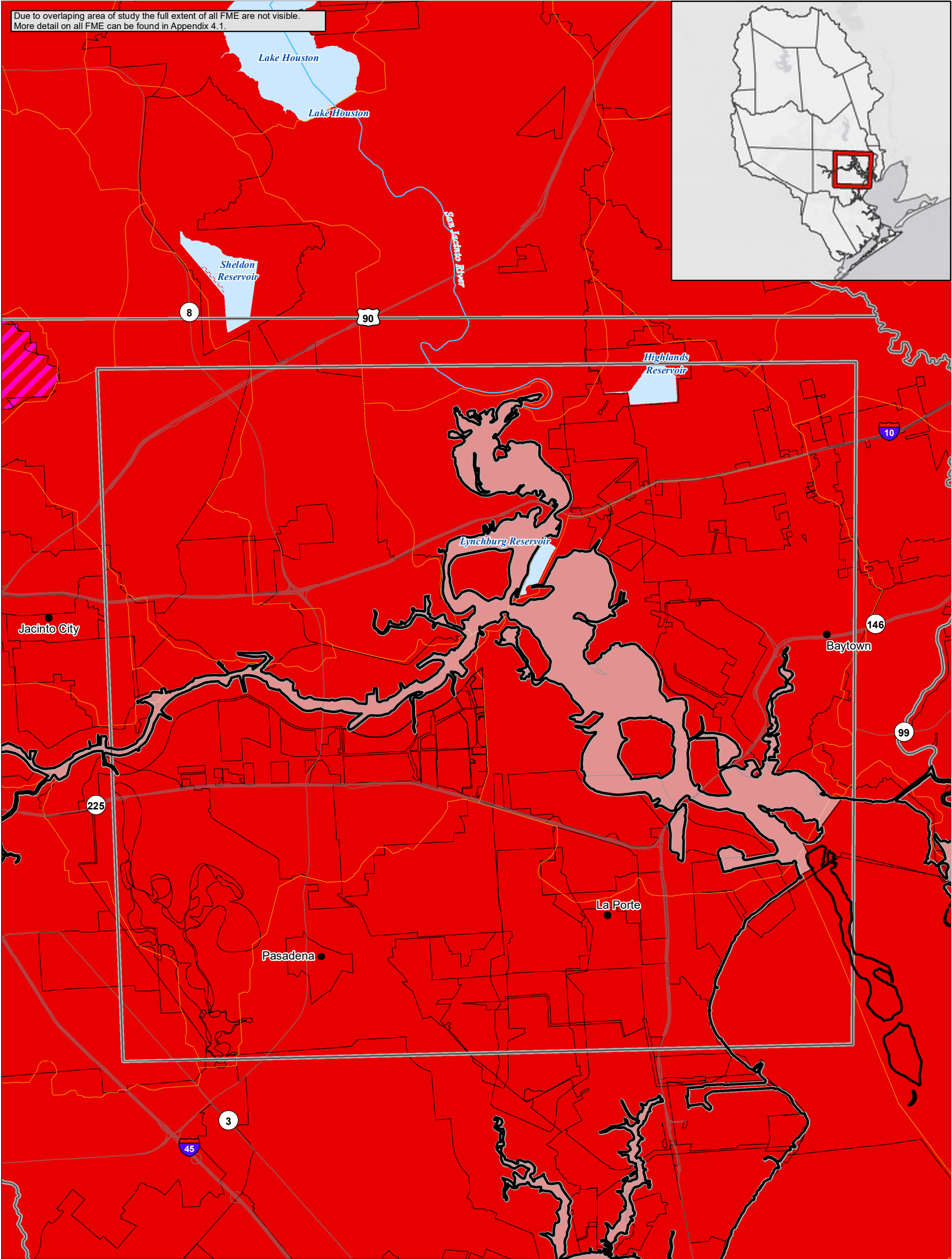
**\*Mapping requires updates when it is found to meet the following conditions**

- Mapping limited to main reach of channel system
- Effective FEMA mapping is more than 10 years old
- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

See Map 5 for more information on existing flood map gaps







**Legend**

- Map Book Page Index
- San Jacinto River
- Reservoir
- HUC12
- City
- Major Road
- FME Boundary

**Flood Management Type and Mapping Condition**

**Project Planning**

- Mapping Requires Update
- Modern Mapping

**Other**

- Modern Mapping

**Preparedness**

- Mapping Requires Update
- Modern Mapping

**Watershed Planning**

- Mapping Requires Update
- Modern Mapping

**\*Mapping requires updates when it is found to meet the following conditions**

- Mapping limited to main reach of channel system
- Effective FEMA mapping is more than 10 years old
- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

See Map 5 for more information on existing flood map gaps



**San Jacinto Regional Flood Plan**

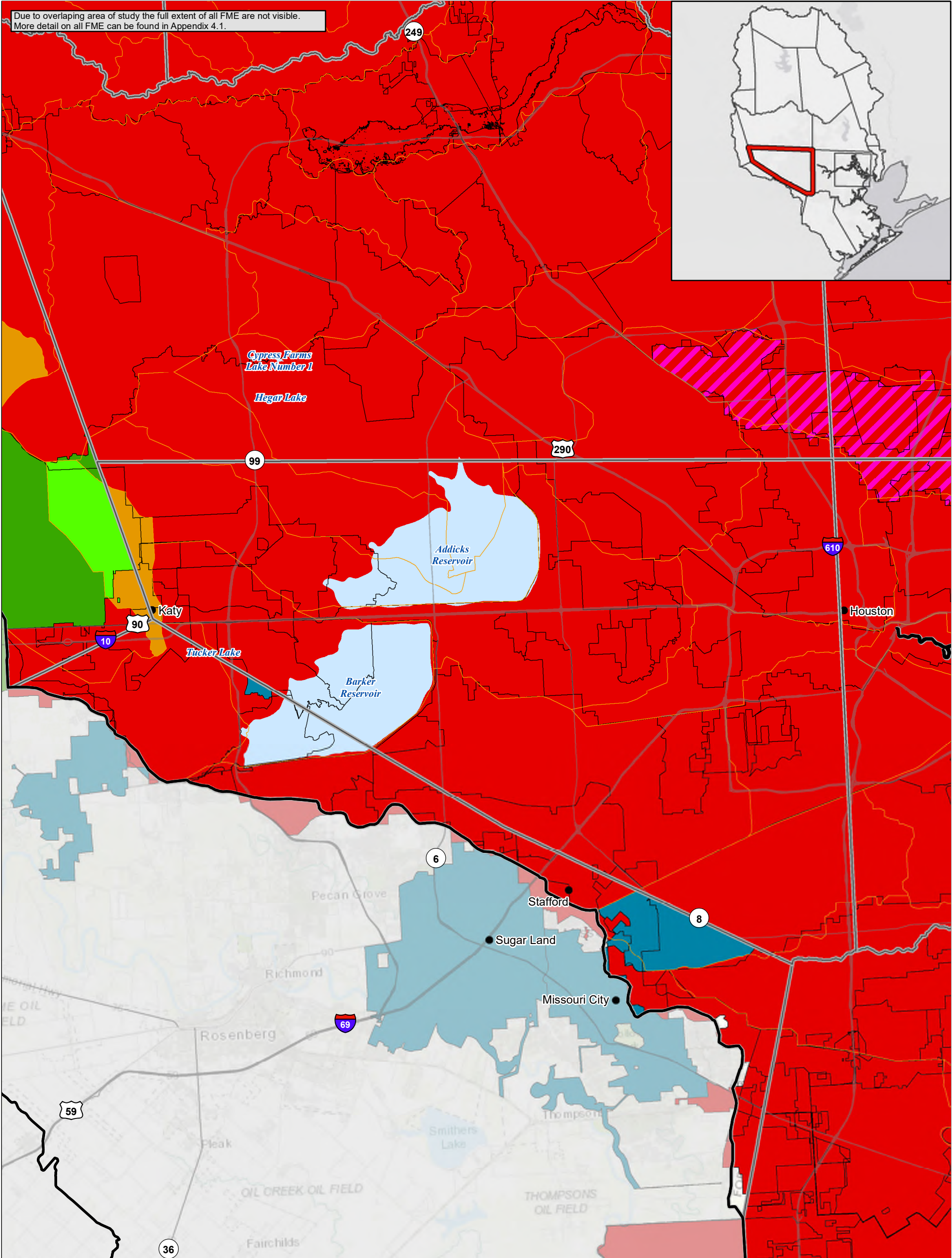
**Recommended Flood Management Evaluations - Harris County Ship Channel**



**MAP 19**

**FIGURE 13 of 17**





**Legend**

Map Book Page Index

San Jacinto River

Reservoir

HUC12

City

Major Road

FME Boundary

**Flood Management Type and Mapping Condition**

**Project Planning**

Mapping Requires Update

Modern Mapping

**Other**

Modern Mapping

**Preparedness**

Mapping Requires Update

Modern Mapping

**Watershed Planning**

Mapping Requires Update

Modern Mapping

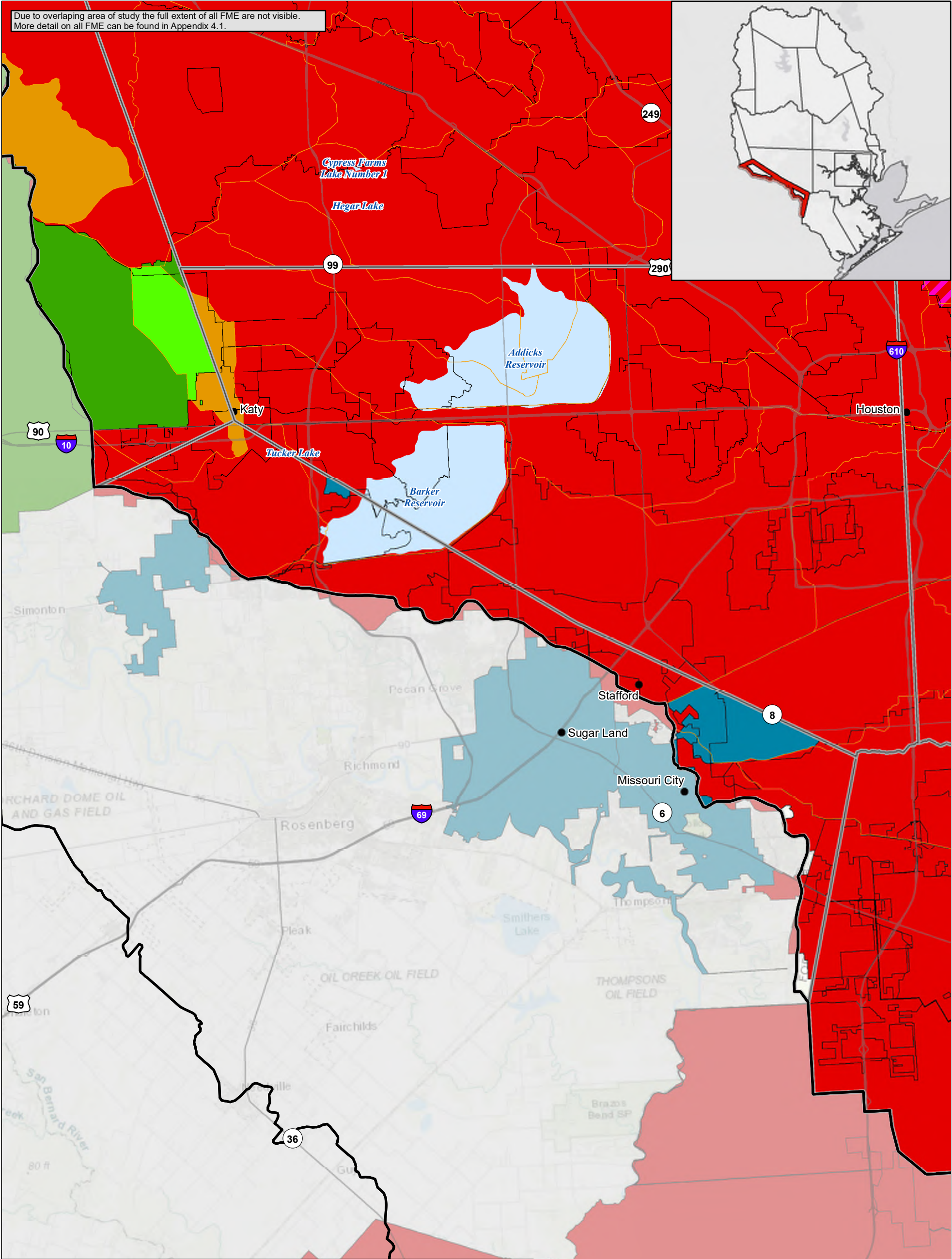
**\*Mapping requires updates when it is found to meet the following conditions**

- Mapping limited to main reach of channel system
- Effective FEMA mapping is more than 10 years old
- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

See Map 5 for more information on existing flood map gaps

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert





**Legend**

- Map Book Page Index
- San Jacinto River
- Reservoir
- HUC12
- City
- Major Road
- FME Boundary

**Flood Management Type and Mapping Condition**

**Project Planning**

- Mapping Requires Update
- Modern Mapping

**Other**

- Modern Mapping

**Preparedness**

- Mapping Requires Update
- Modern Mapping

**Watershed Planning**

- Mapping Requires Update
- Modern Mapping

0 1.25 2.5 5 Miles

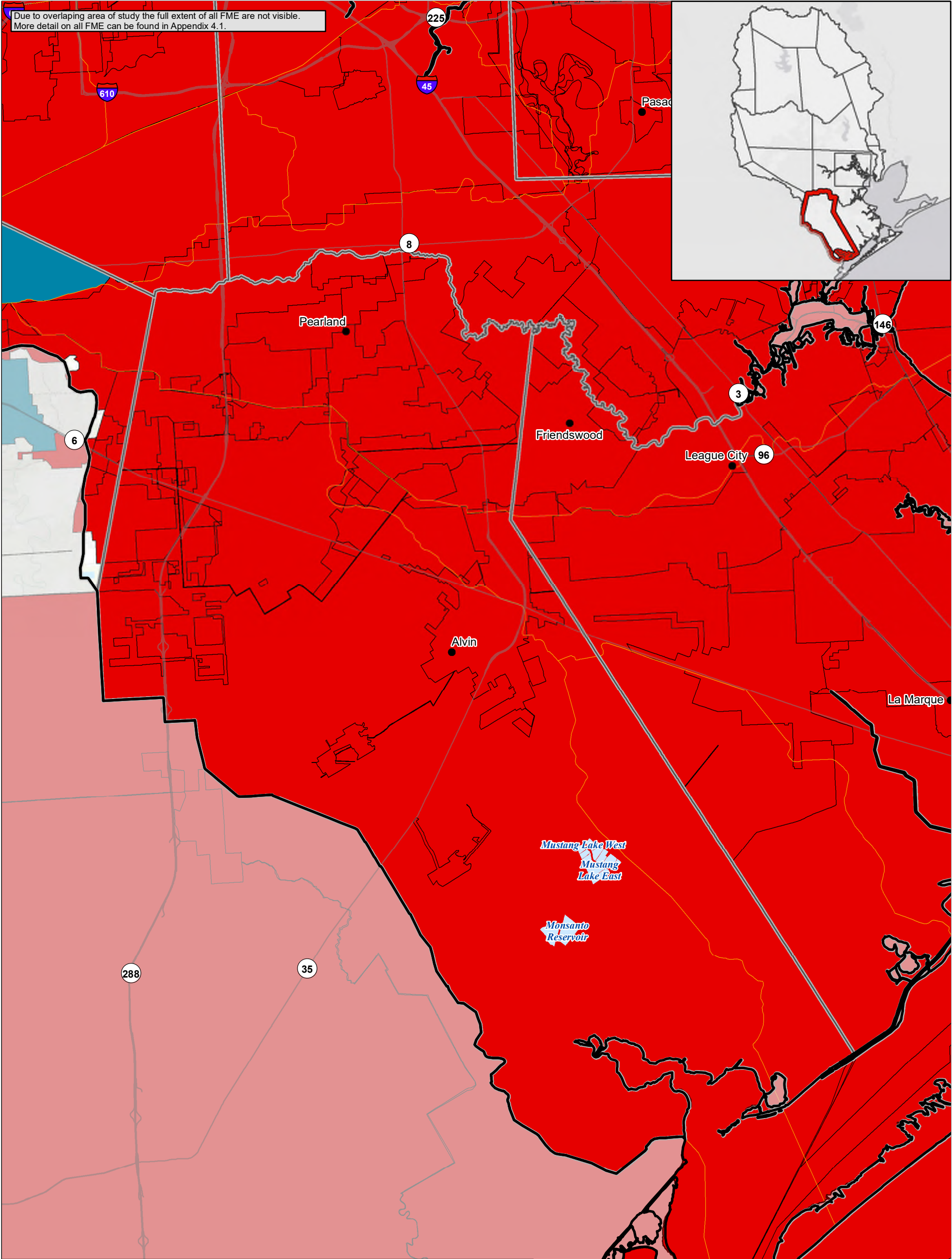
**\*Mapping requires updates when it is found to meet the following conditions**

- Mapping limited to main reach of channel system
- Effective FEMA mapping is more than 10 years old
- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

See Map 5 for more information on existing flood map gaps

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert





**Legend**

- Map Book Page Index
- San Jacinto River
- Reservoir
- HUC12
- City
- Major Road
- FME Boundary

**Flood Management Type and Mapping Condition**

**Project Planning**

- Mapping Requires Update
- Modern Mapping

**Other**

- Modern Mapping

**Preparedness**

- Mapping Requires Update
- Modern Mapping

**Watershed Planning**

- Mapping Requires Update
- Modern Mapping

0 1 2 4 Miles

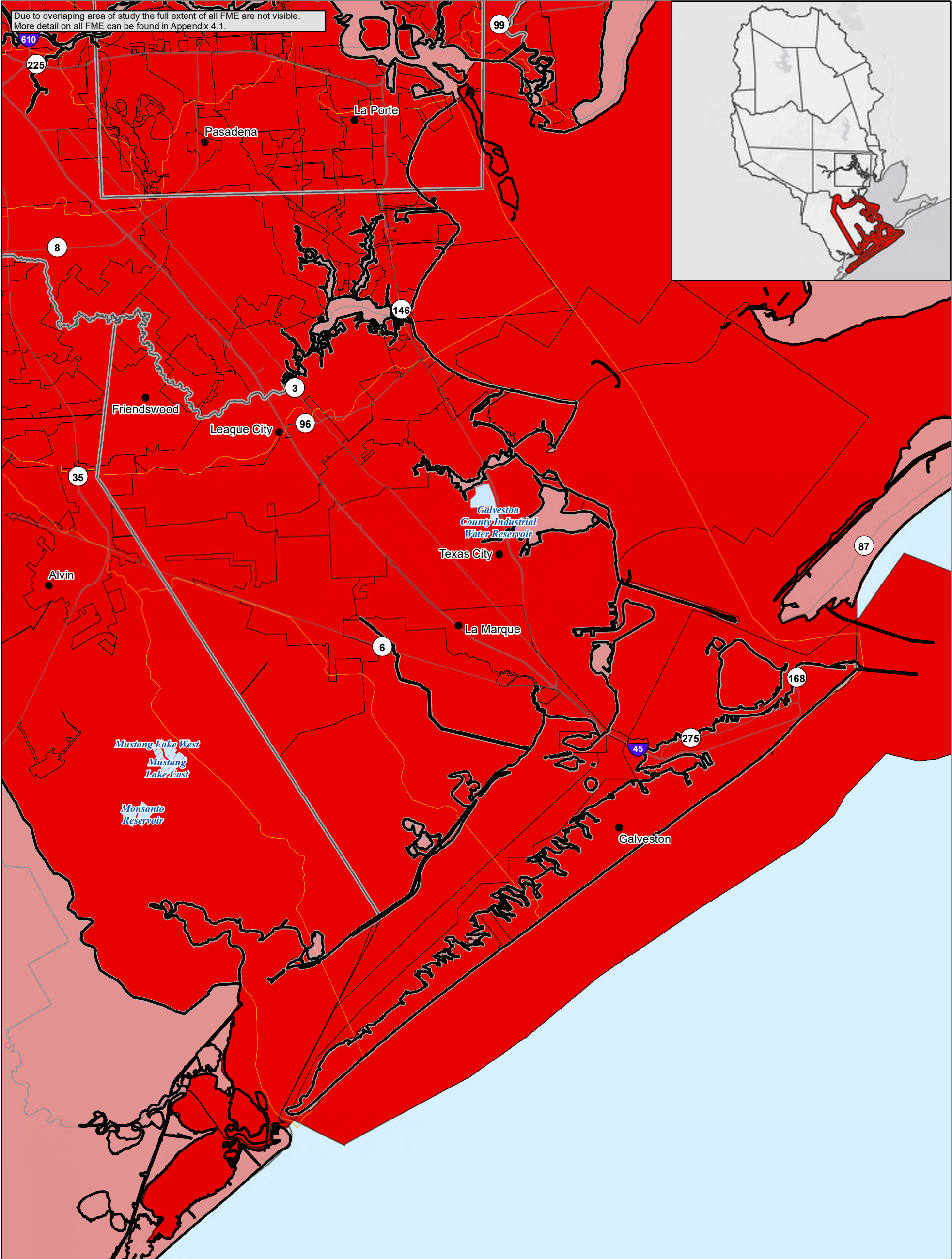
**\*Mapping requires updates when it is found to meet the following conditions**

- Mapping limited to main reach of channel system
- Effective FEMA mapping is more than 10 years old
- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

See Map 5 for more information on existing flood map gaps

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert





**Legend**

Map Book Page Index

San Jacinto River

Reservoir

HUC12

City

Major Road

FME Boundary

**Flood Management Type and Mapping Condition**

**Project Planning**

Mapping Requires Update

Modern Mapping

**Other**

Modern Mapping

**Preparedness**

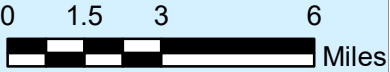
Mapping Requires Update

Modern Mapping

**Watershed Planning**

Mapping Requires Update

Modern Mapping



**\*Mapping requires updates when it is found to meet the following conditions**

- Mapping limited to main reach of channel system
- Effective FEMA mapping is more than 10 years old
- Area of recent development with only BLE mapping
- Lacks effective NFHL mapping

See Map 5 for more information on existing flood map gaps



San Jacinto Regional Flood Plan

Recommended Flood Management Evaluations - Galveston County



**MAP 19**  
FIGURE 17 of 17

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert

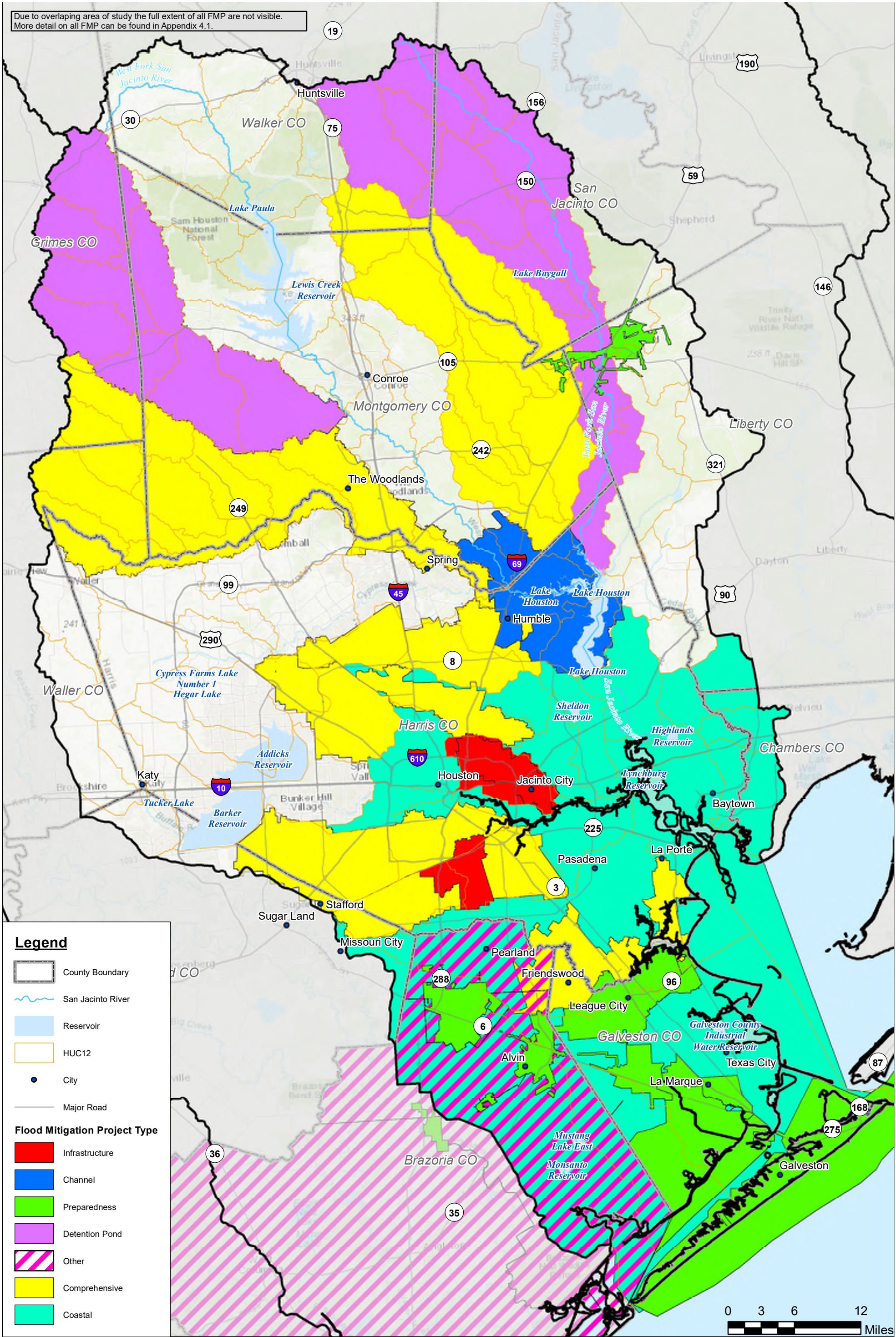
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**Appendix 5-2:**  
**Map 20 - Recommended FMPs**

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Due to overlapping area of study the full extent of all FMP are not visible.  
More detail on all FMP can be found in Appendix 4.1.



# San Jacinto Regional Flood Plan

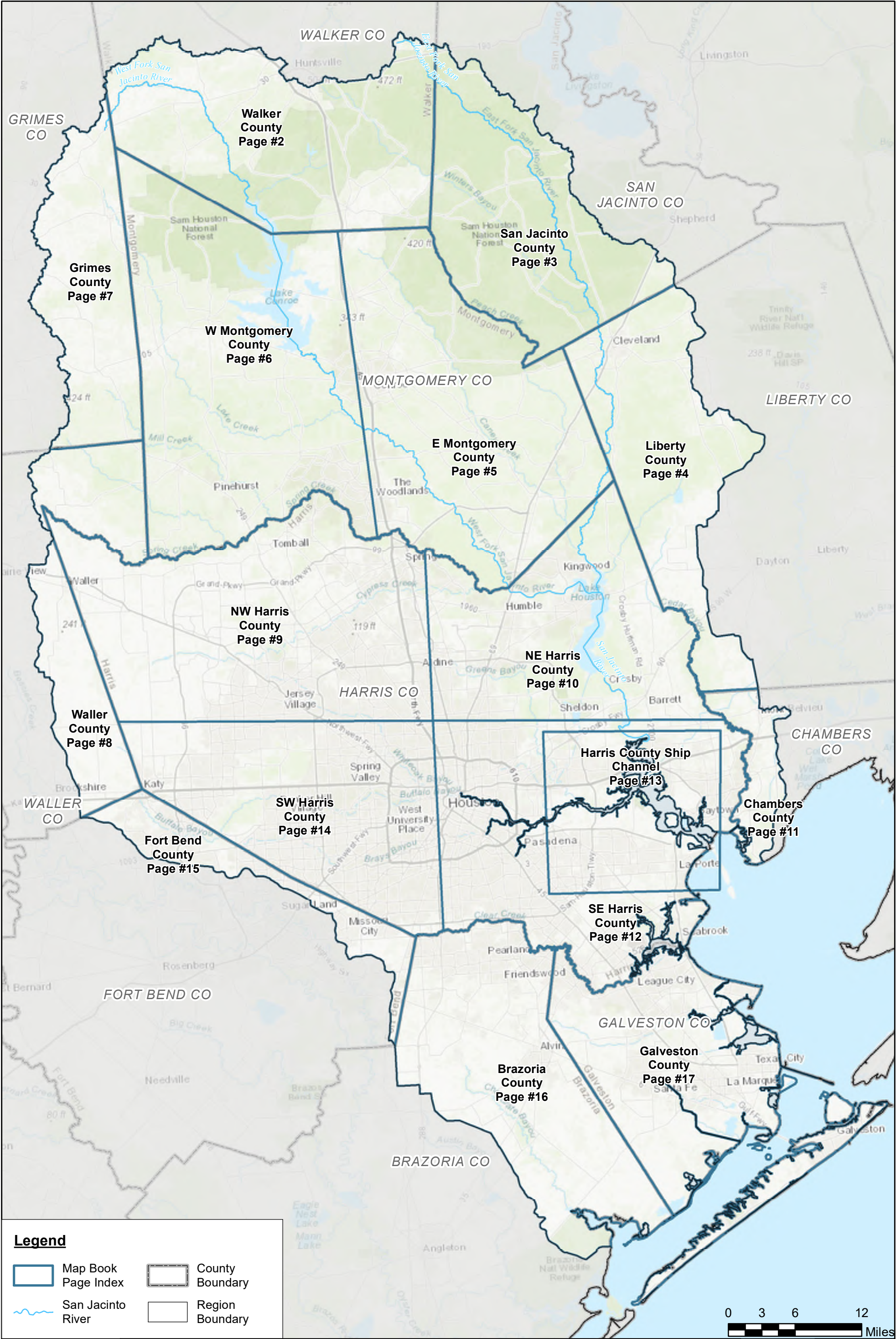
## Recommended Flood Mitigation Projects



**MAP 20**  
Overview

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert





# San Jacinto Regional Flood Plan

## Recommended Flood Mitigation Projects - Index

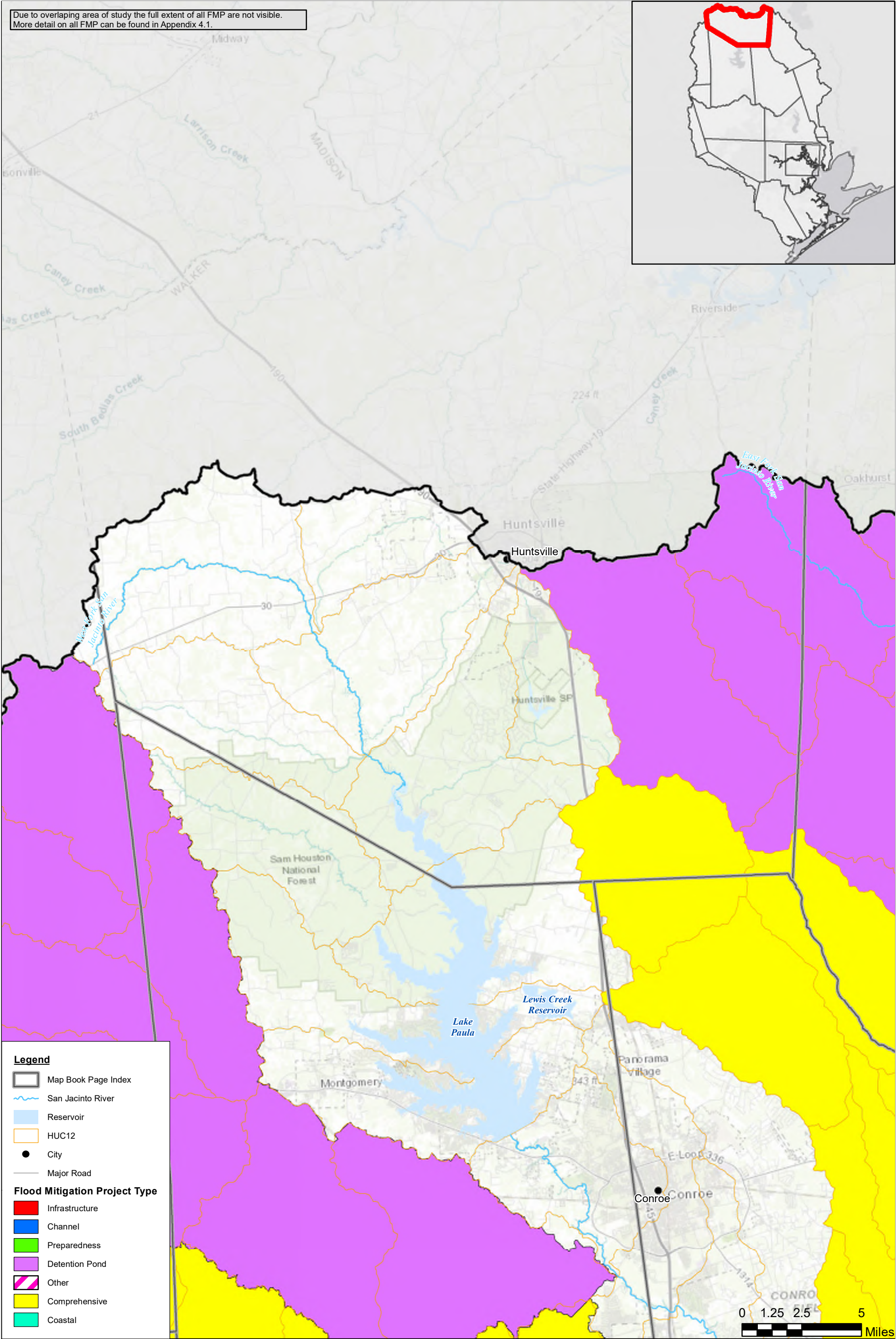


**MAP 20**  
**FIGURE 1 of 17**

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



Due to overlapping area of study the full extent of all FMP are not visible.  
More detail on all FMP can be found in Appendix 4.1.



# San Jacinto Regional Flood Plan

## Recommended Flood Mitigation Projects - Walker

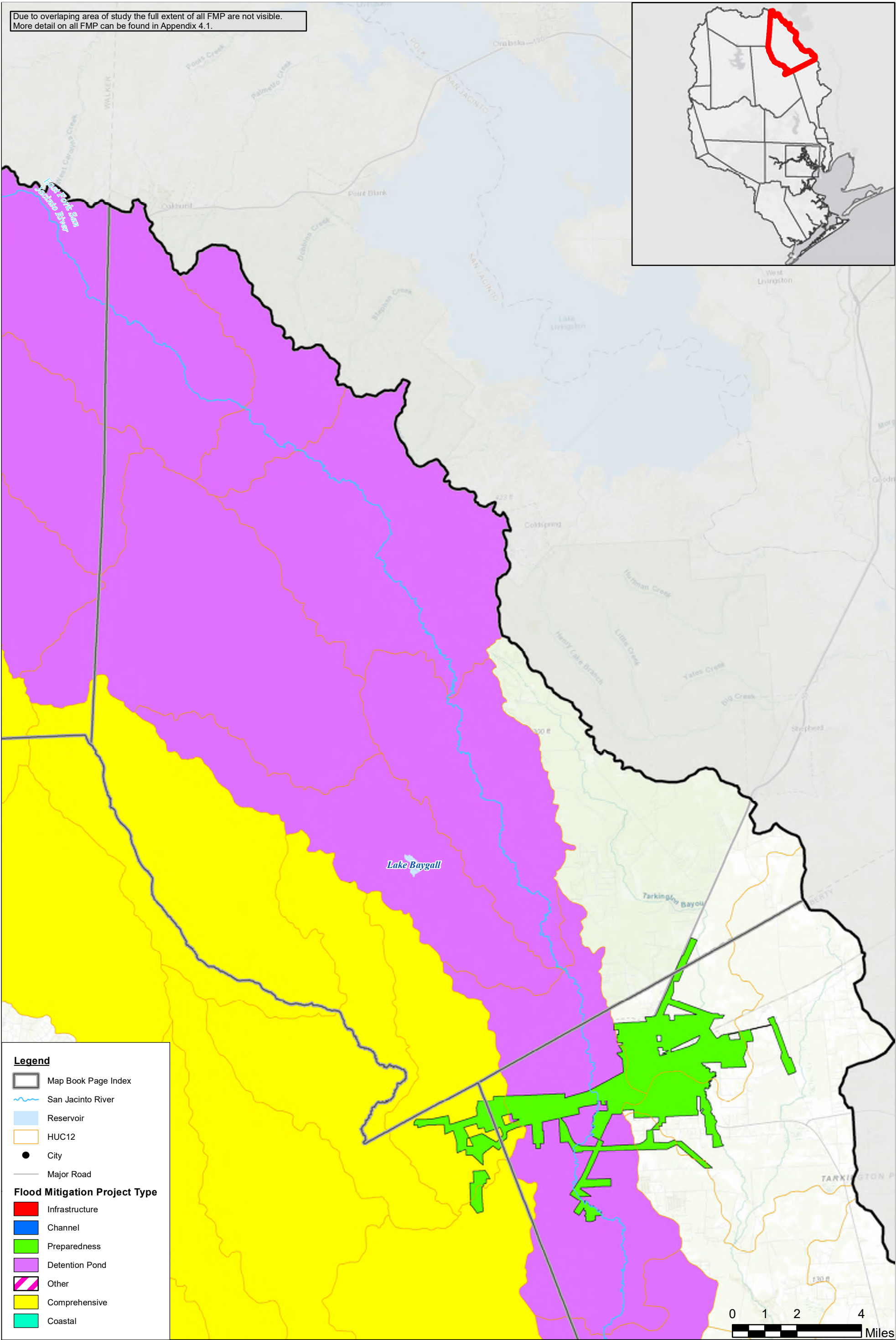


**MAP  
20**  
FIGURE  
2 of 17

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



Due to overlapping area of study the full extent of all FMP are not visible.  
More detail on all FMP can be found in Appendix 4.1.



# San Jacinto Regional Flood Plan

## Recommended Flood Mitigation Projects - San Jacinto

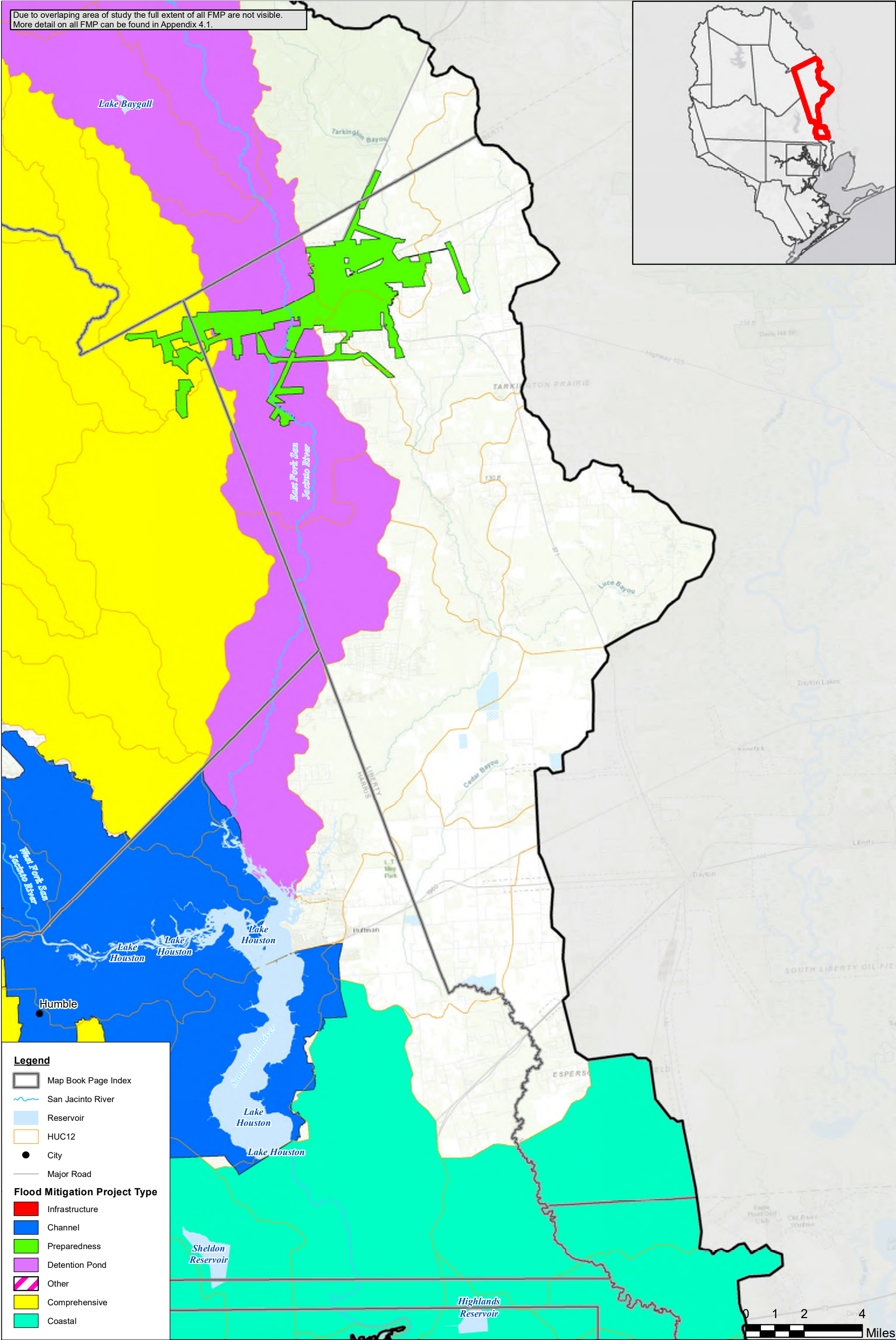


**MAP 20**  
**FIGURE 3 of 17**

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



Due to overlapping area of study the full extent of all FMP are not visible.  
More detail on all FMP can be found in Appendix 4.1.



**Legend**

- Map Book Page Index
- San Jacinto River
- Reservoir
- HUC12
- City
- Major Road

**Flood Mitigation Project Type**

- Infrastructure
- Channel
- Preparedness
- Detention Pond
- Other
- Comprehensive
- Coastal



San Jacinto Regional Flood Plan

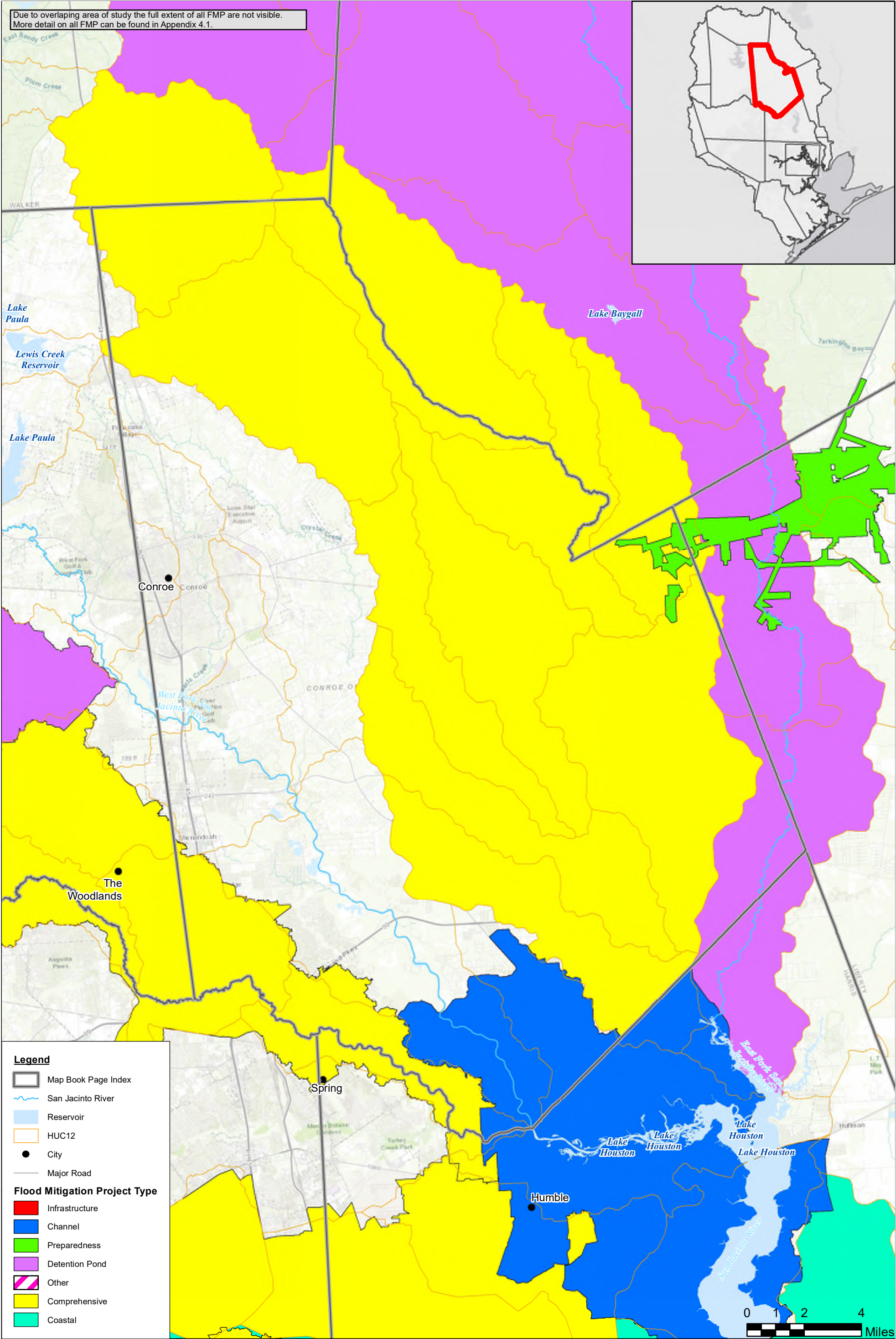
**Recommended Flood Mitigation Projects - Liberty**



**MAP 20**  
**FIGURE 4 of 17**

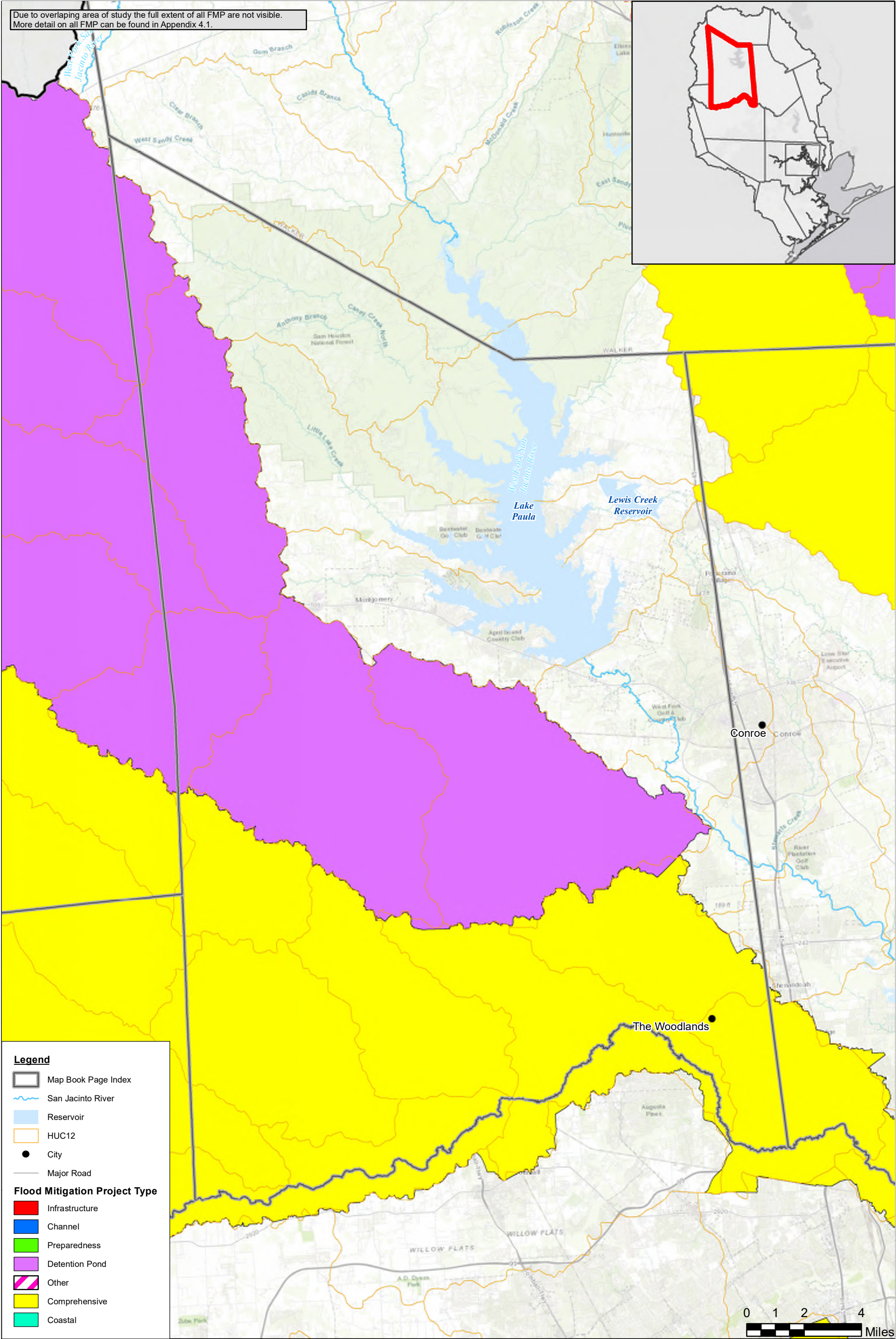
Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert







Due to overlapping area of study the full extent of all FMP are not visible.  
More detail on all FMP can be found in Appendix 4.1.



# San Jacinto Regional Flood Plan

## Recommended Flood Mitigation Projects - W Montgomery

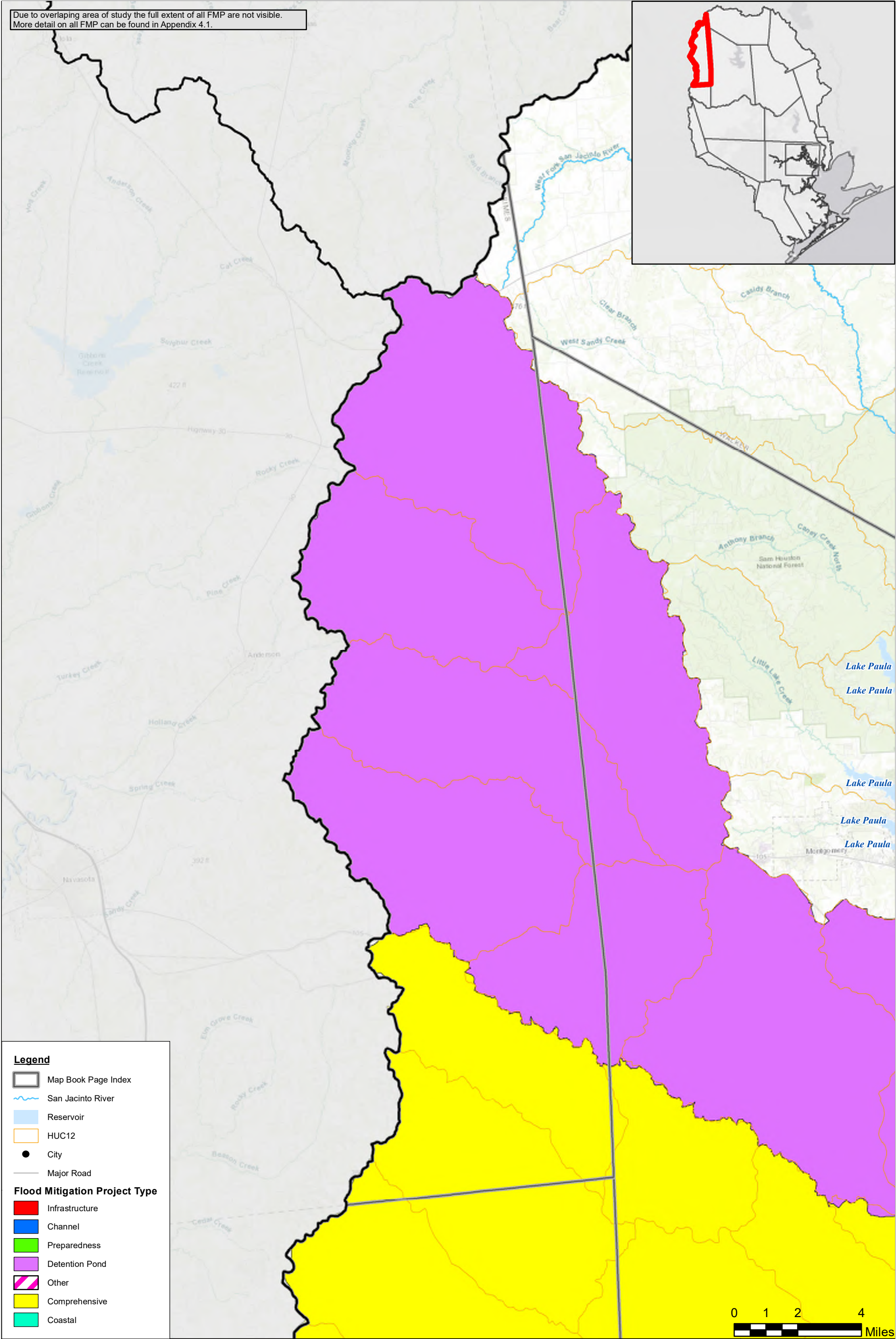


**MAP 20**  
**FIGURE 6 of 17**

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert

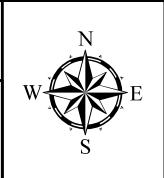


Due to overlapping area of study the full extent of all FMP are not visible.  
More detail on all FMP can be found in Appendix 4.1.



# San Jacinto Regional Flood Plan

## Recommended Flood Mitigation Projects - Grimes

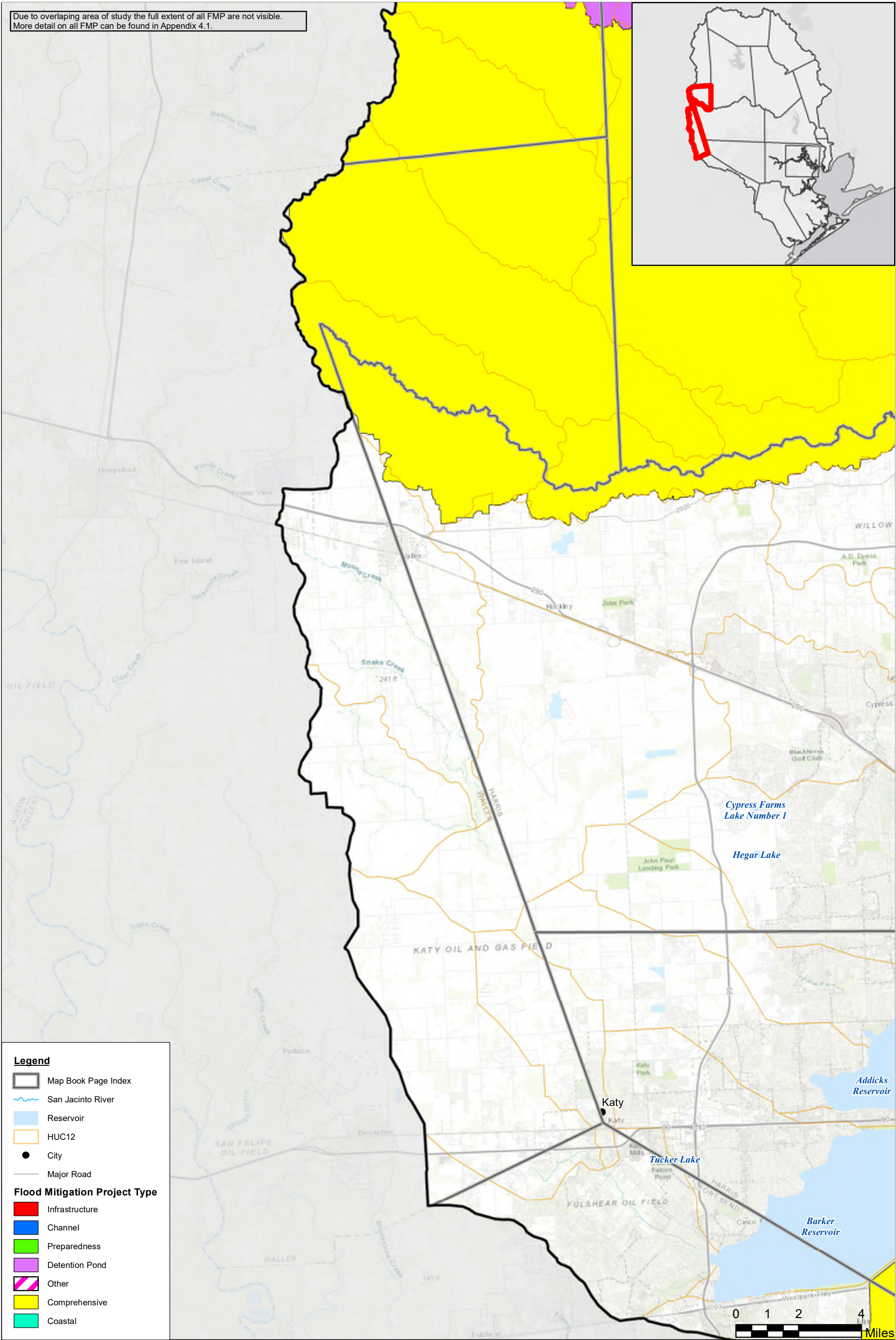


**MAP 20**  
**FIGURE 7 of 17**

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



Due to overlapping area of study the full extent of all FMP are not visible.  
More detail on all FMP can be found in Appendix 4.1.



# San Jacinto Regional Flood Plan

## Recommended Flood Mitigation Projects - Waller

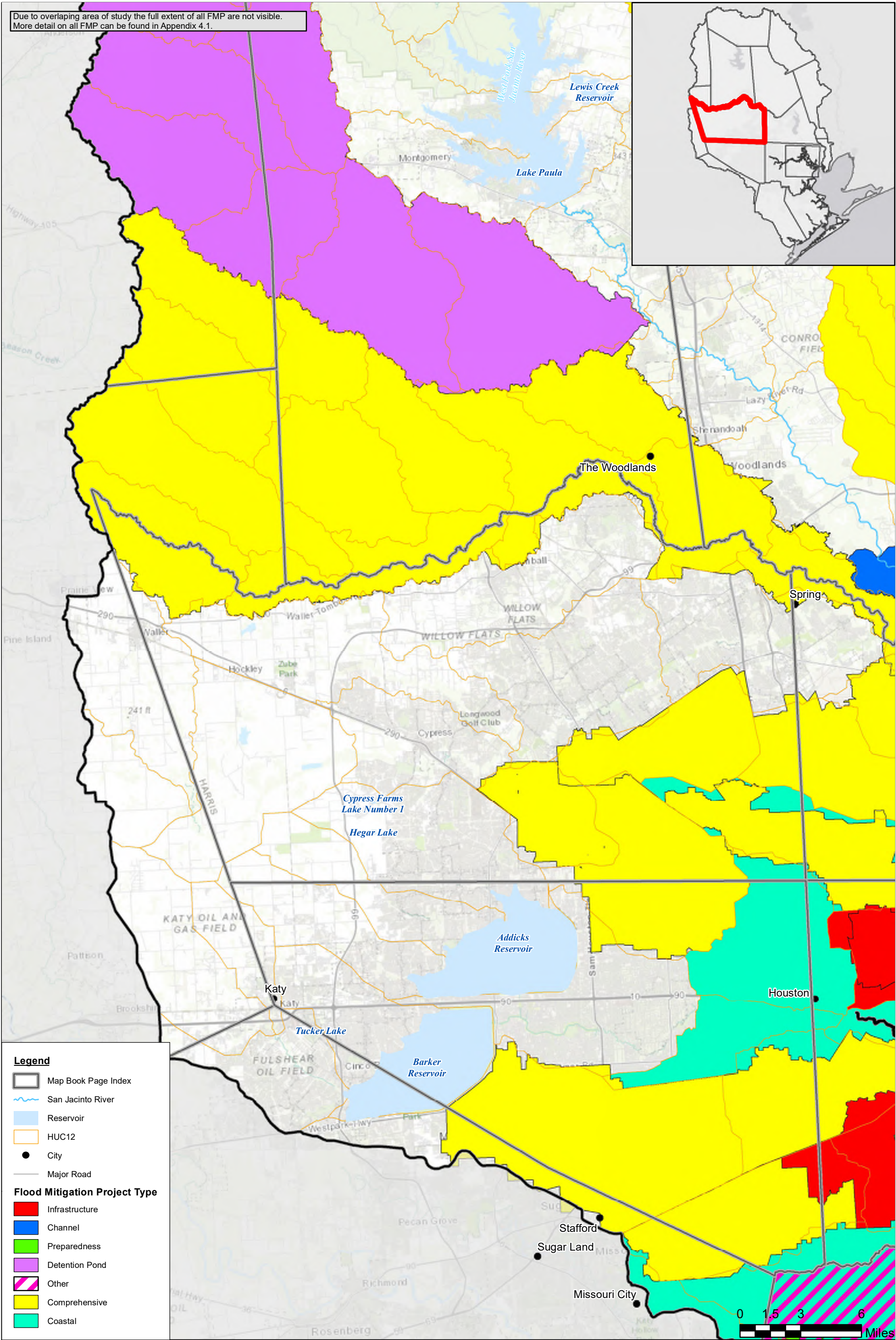


**MAP 20**  
**FIGURE 8 of 17**

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



Due to overlapping area of study the full extent of all FMP are not visible.  
More detail on all FMP can be found in Appendix 4.1.



# San Jacinto Regional Flood Plan

## Recommended Flood Mitigation Projects - NW Harris

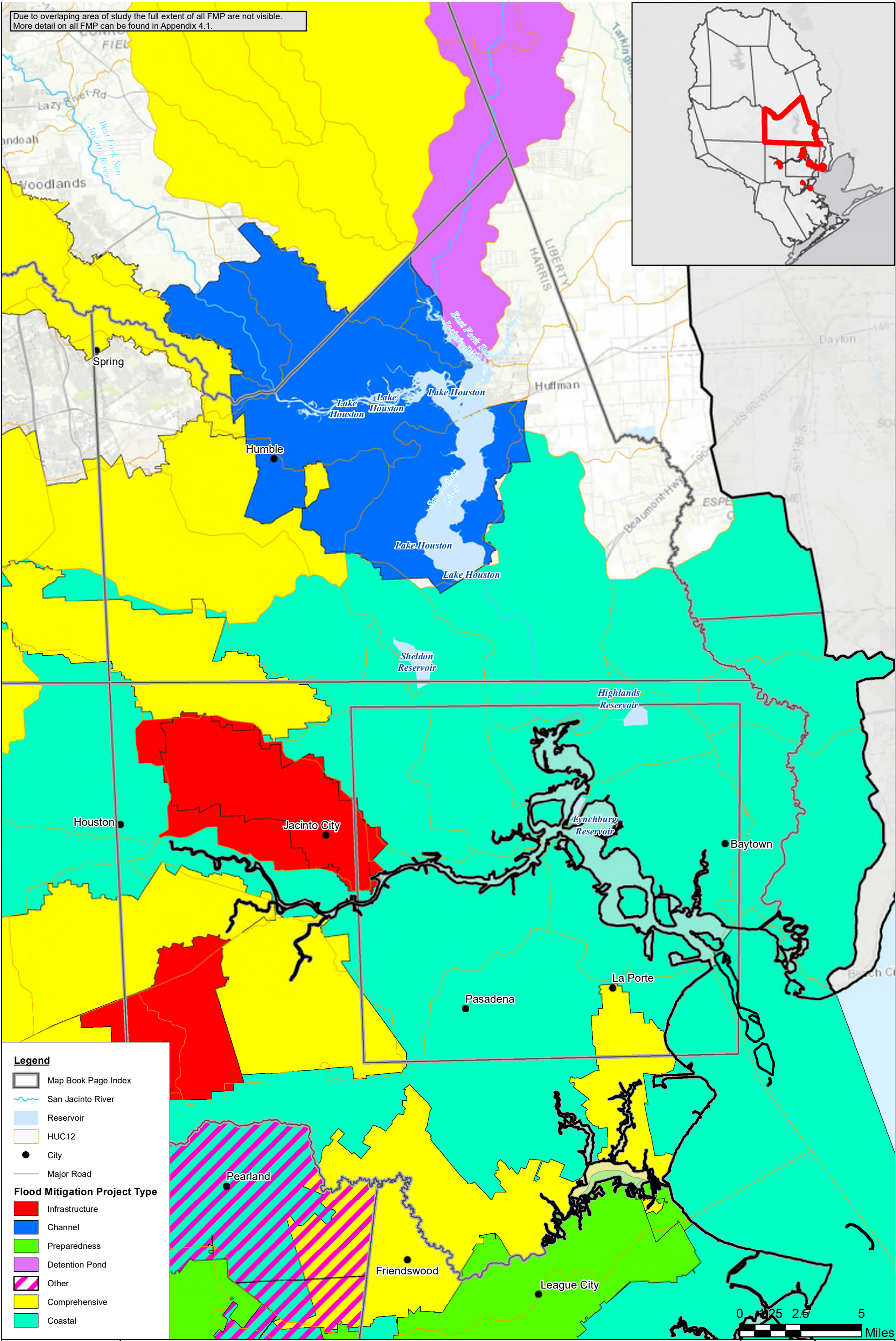


**MAP 20**  
**FIGURE 9 of 17**

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



Due to overlapping area of study the full extent of all FMP are not visible.  
More detail on all FMP can be found in Appendix 4.1.



# San Jacinto Regional Flood Plan

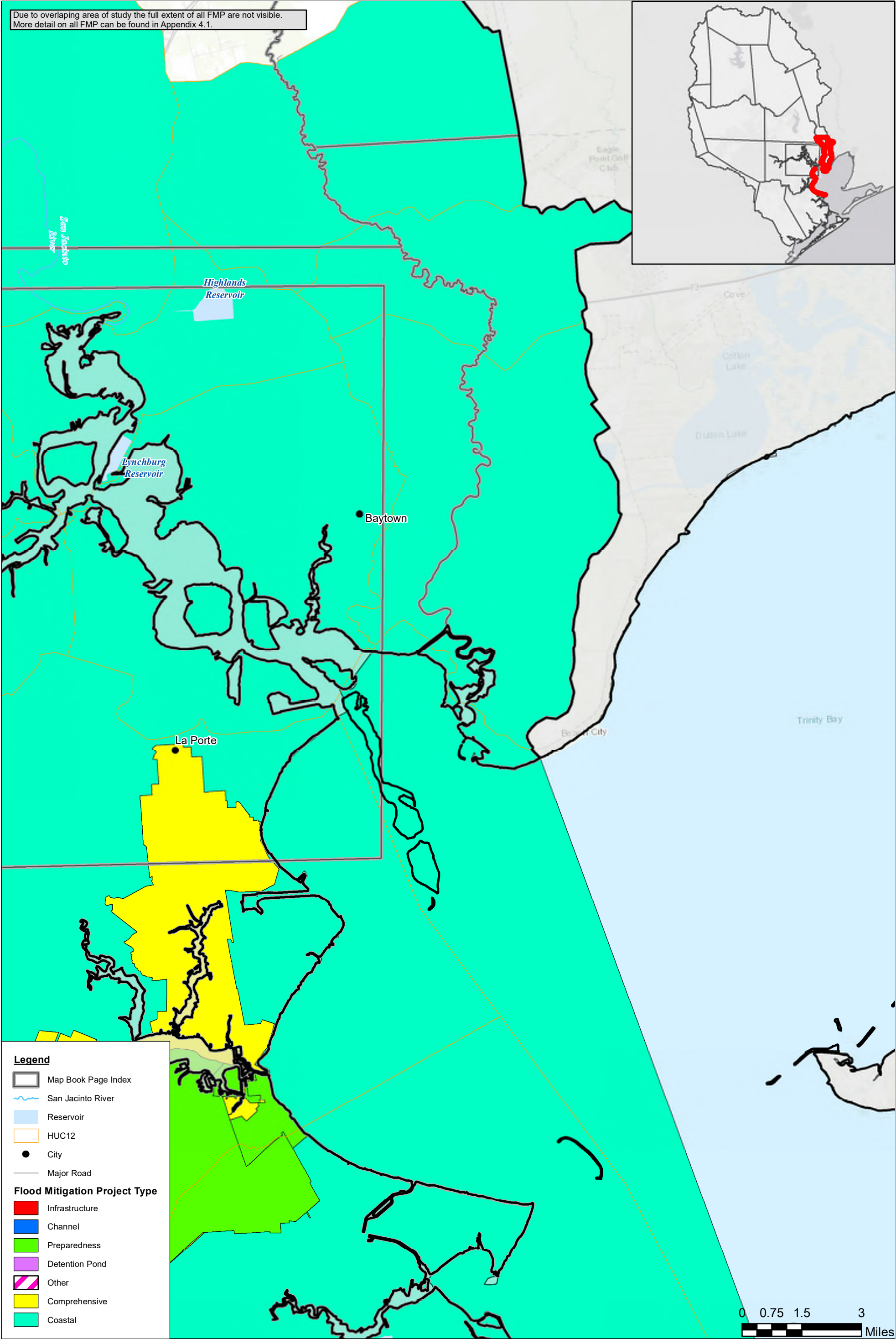
## Recommended Flood Mitigation Projects - NE Harris



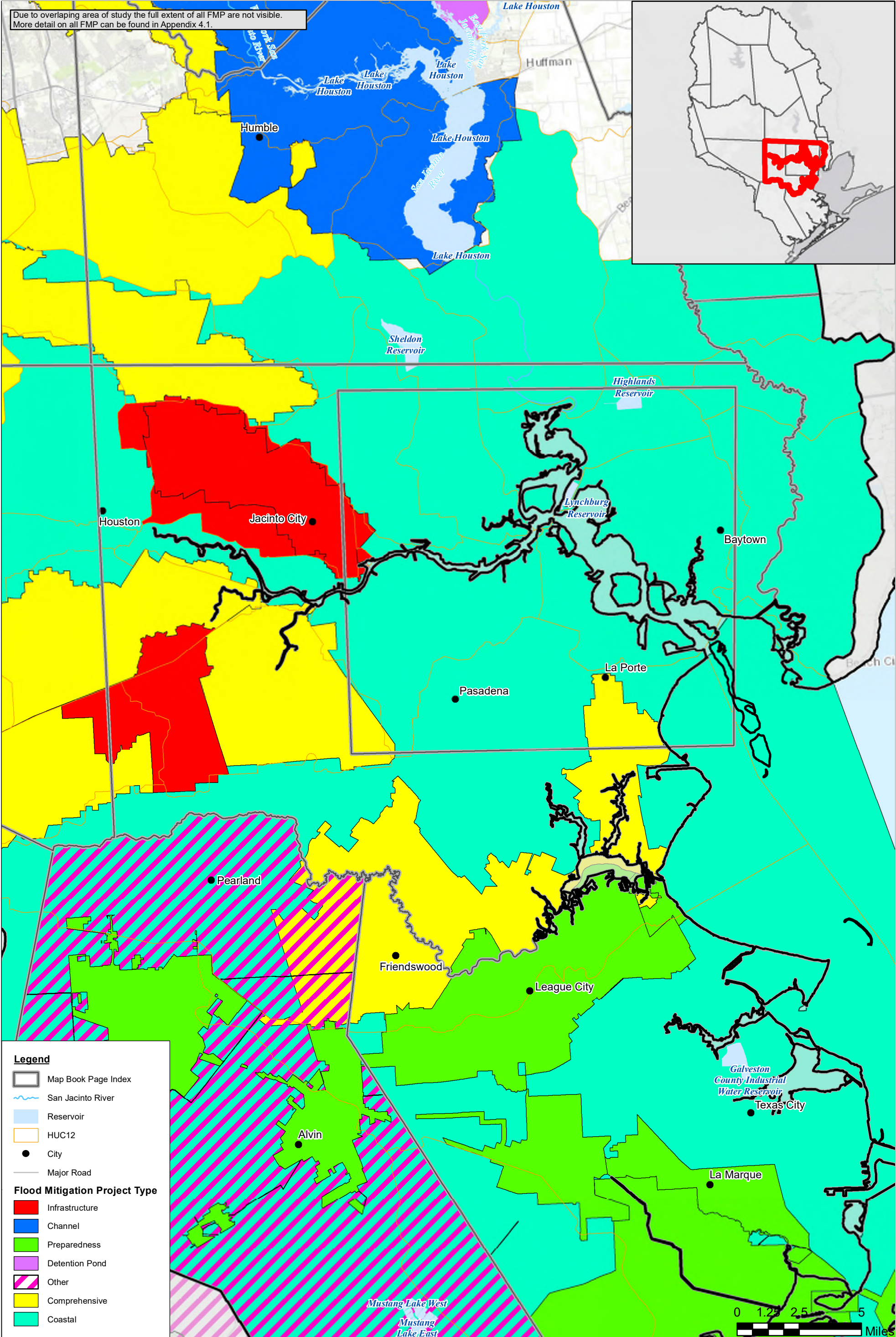
**MAP**  
**20**  
FIGURE  
10 of 17

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



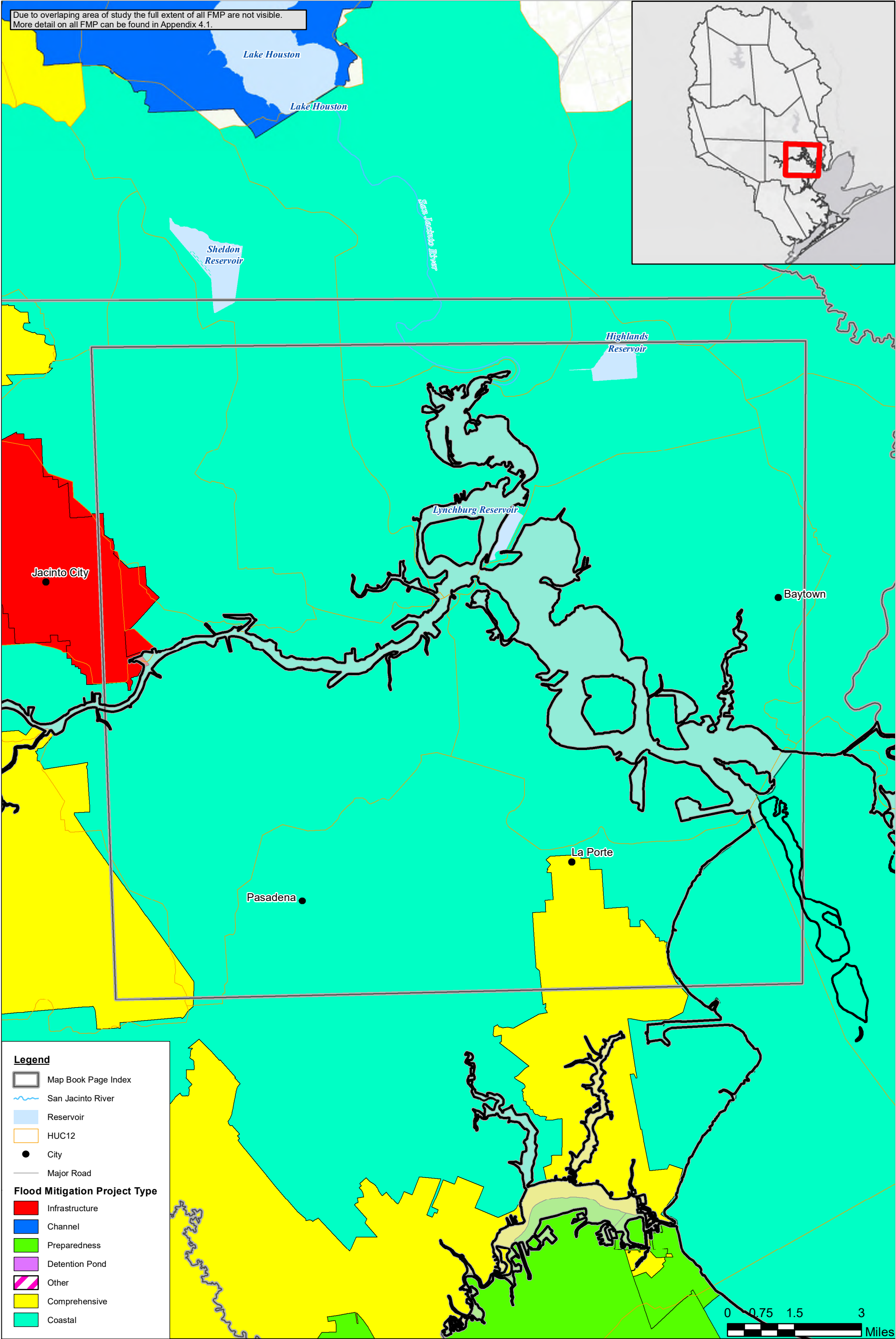




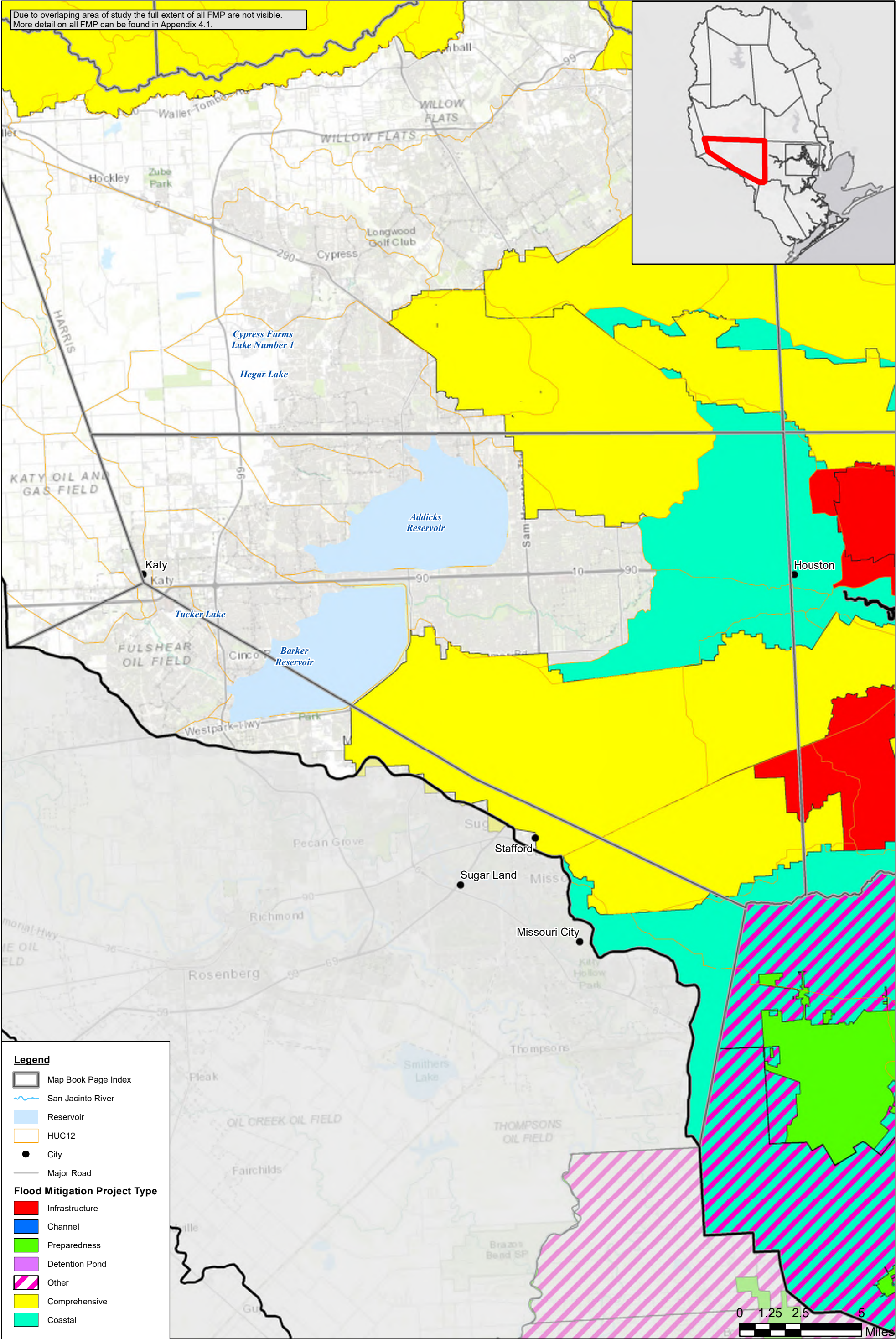


Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert

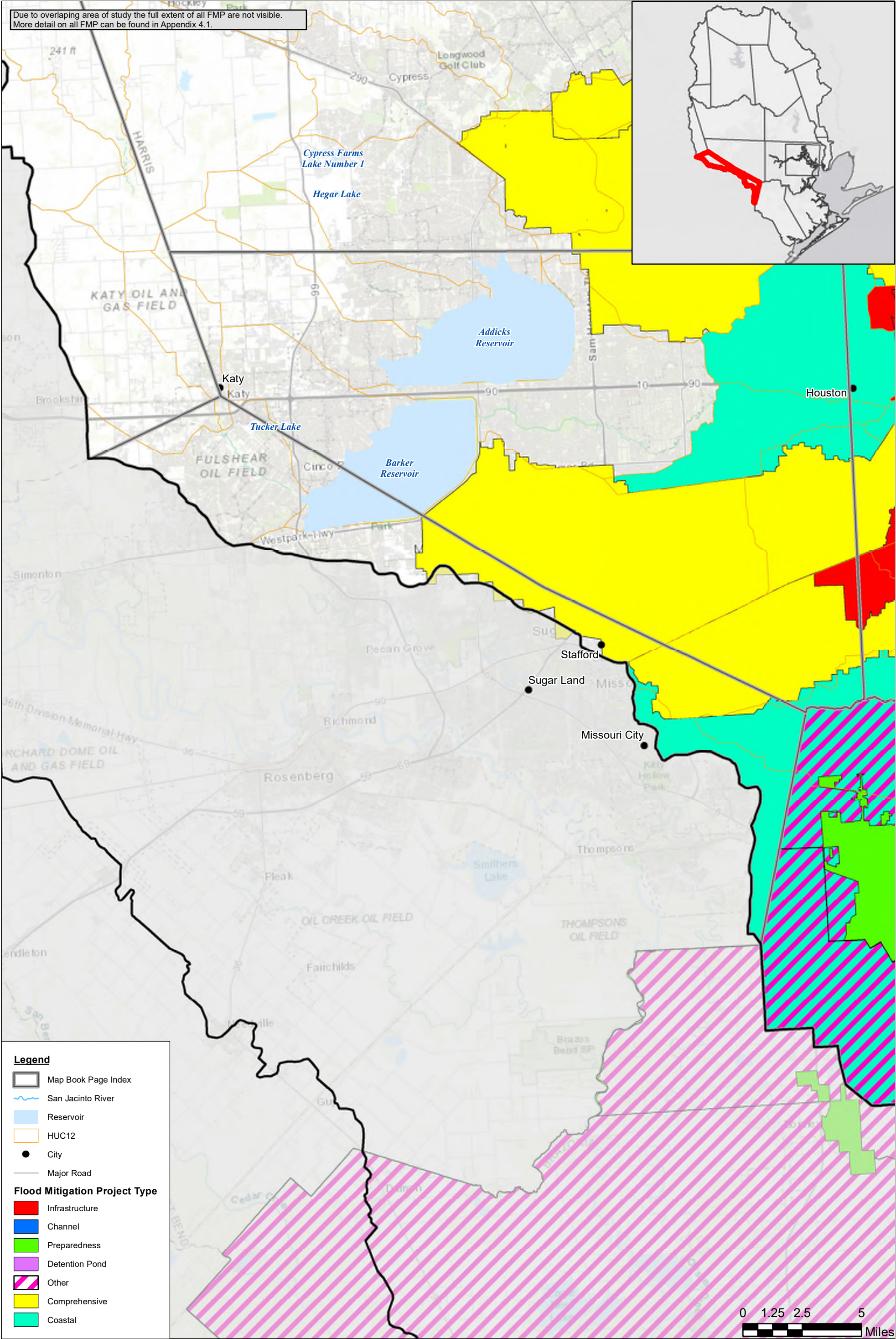




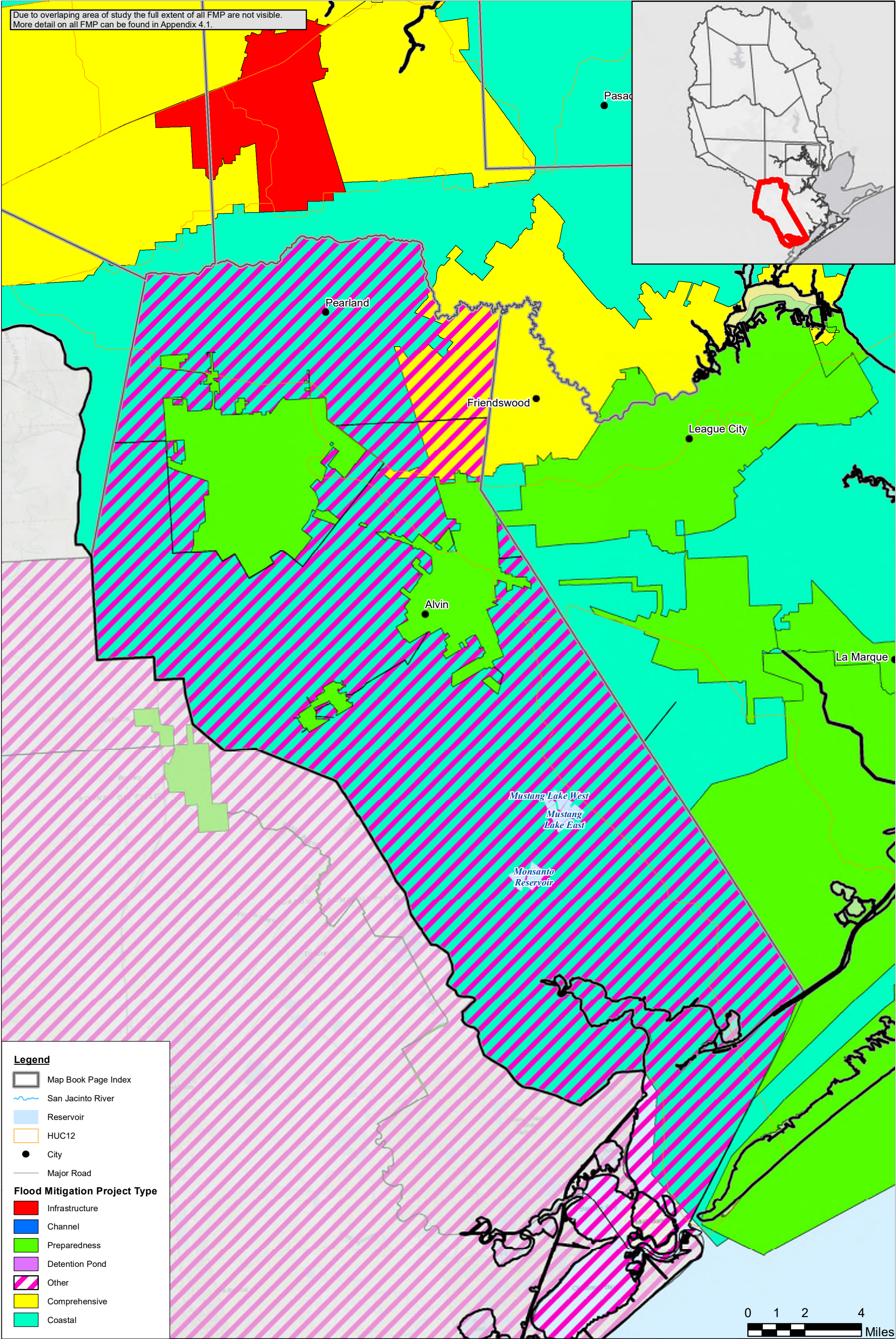




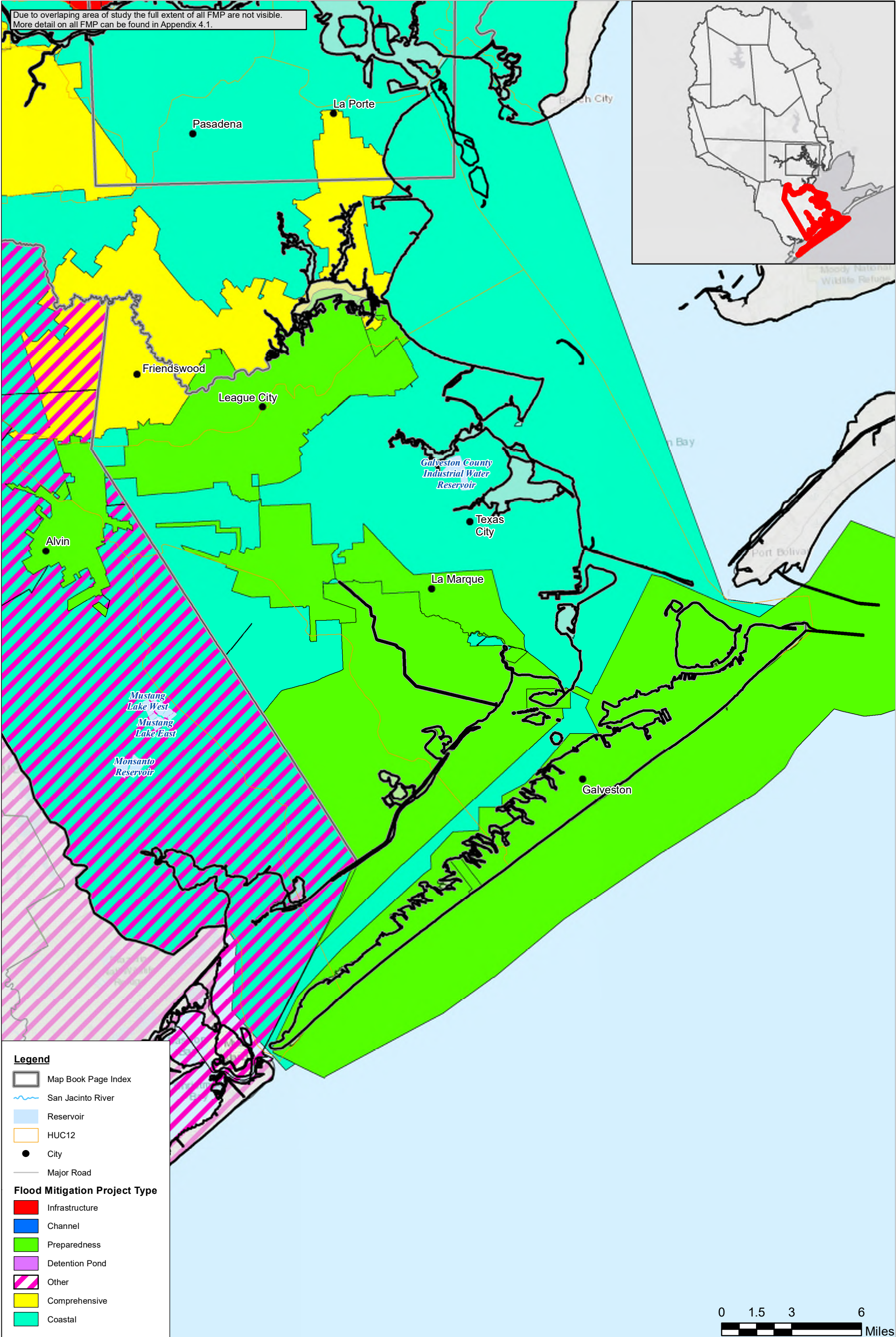














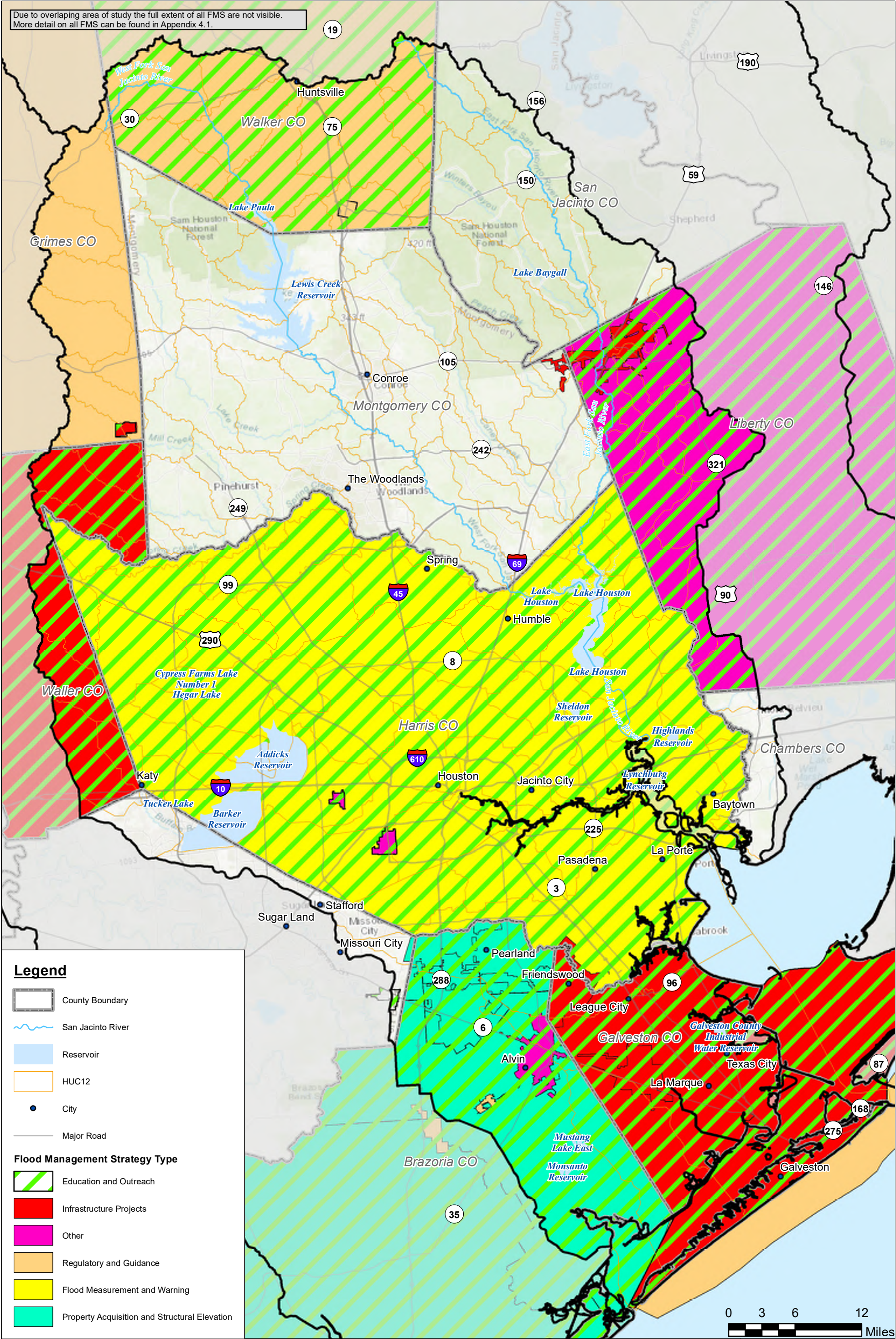
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**Appendix 5-3:**  
**Map 21 - Recommended FMSs**

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Due to overlapping area of study the full extent of all FMS are not visible.  
More detail on all FMS can be found in Appendix 4.1.



# San Jacinto Regional Flood Plan

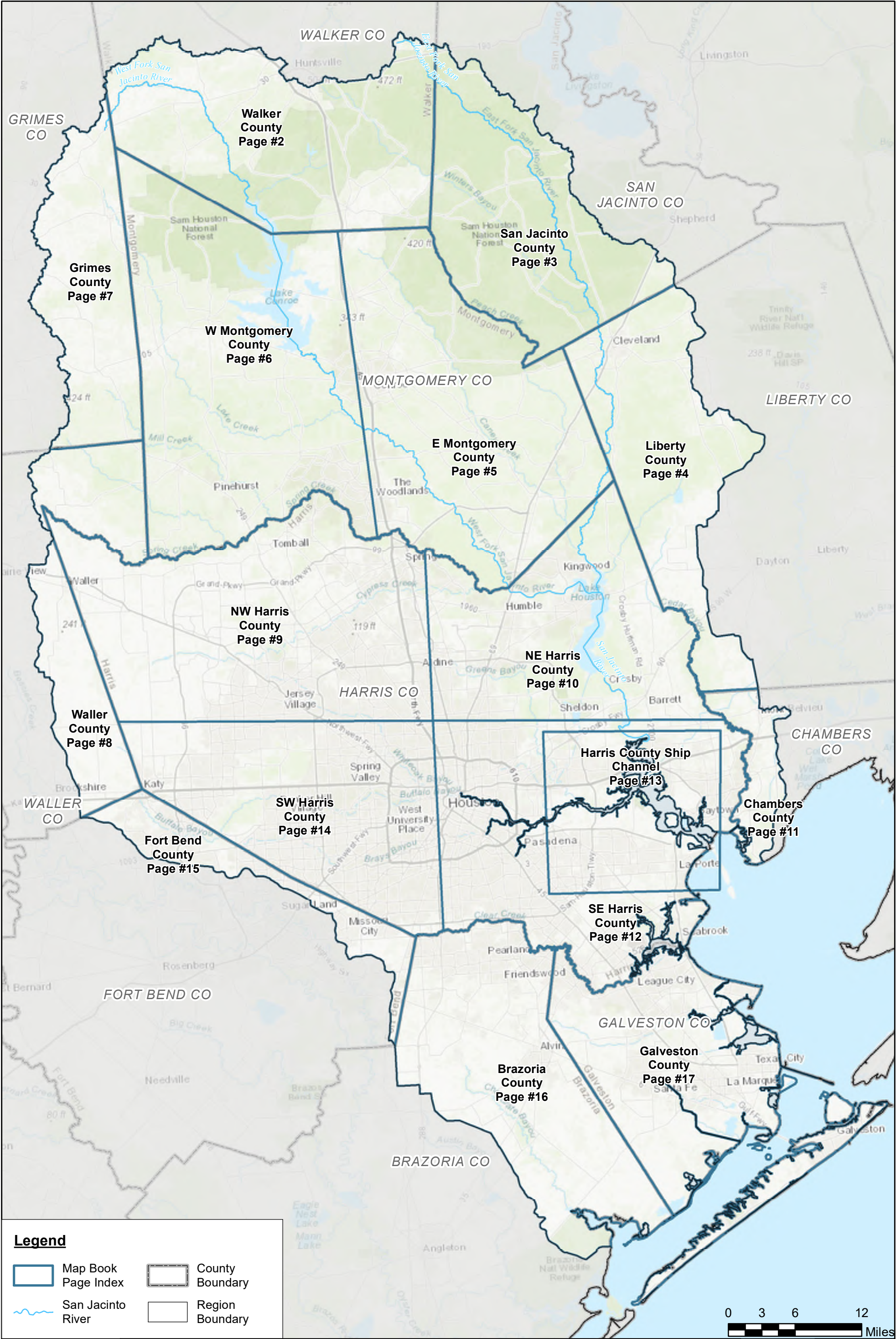
## Recommended Flood Management Strategies



**MAP 21**  
Overview

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert





# San Jacinto Regional Flood Plan

## Recommended Flood Management Strategies - Index

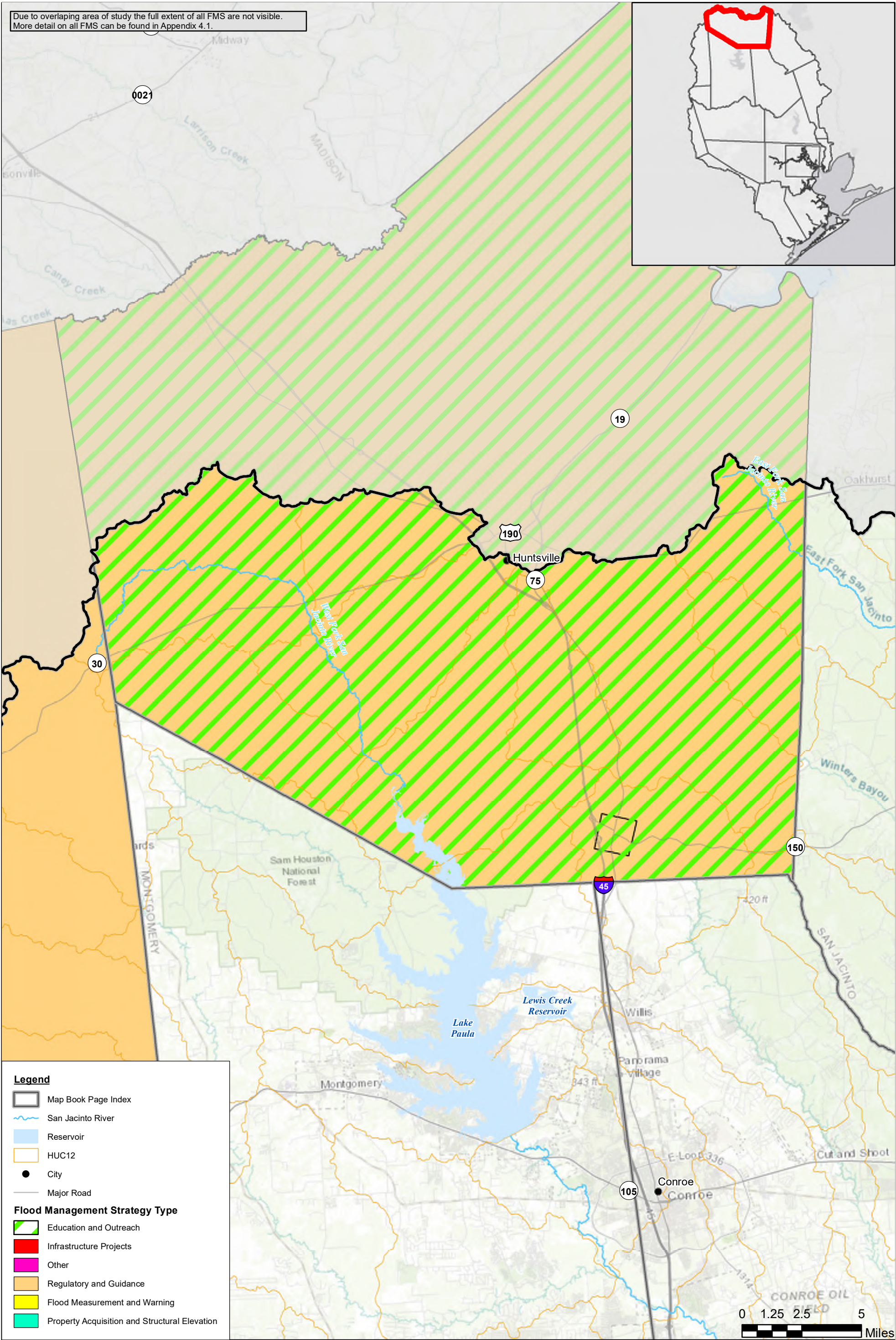


**MAP 21**  
**FIGURE 1 of 17**

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



Due to overlapping area of study the full extent of all FMS are not visible.  
More detail on all FMS can be found in Appendix 4.1.



# San Jacinto Regional Flood Plan

## Recommended Flood Management Strategies - Walker

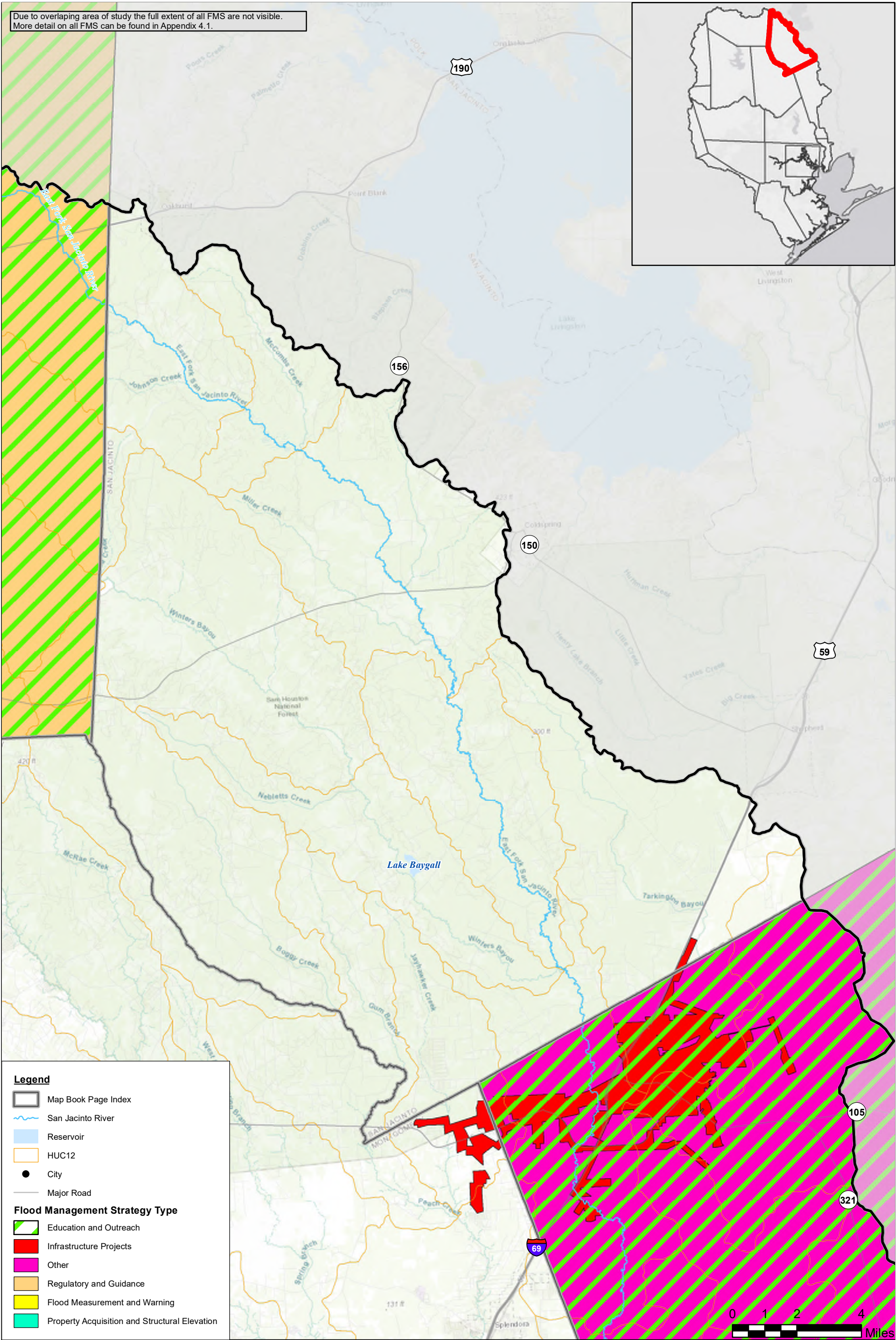


**MAP 21**  
FIGURE 2 of 17

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



Due to overlapping area of study the full extent of all FMS are not visible.  
More detail on all FMS can be found in Appendix 4.1.



# San Jacinto Regional Flood Plan

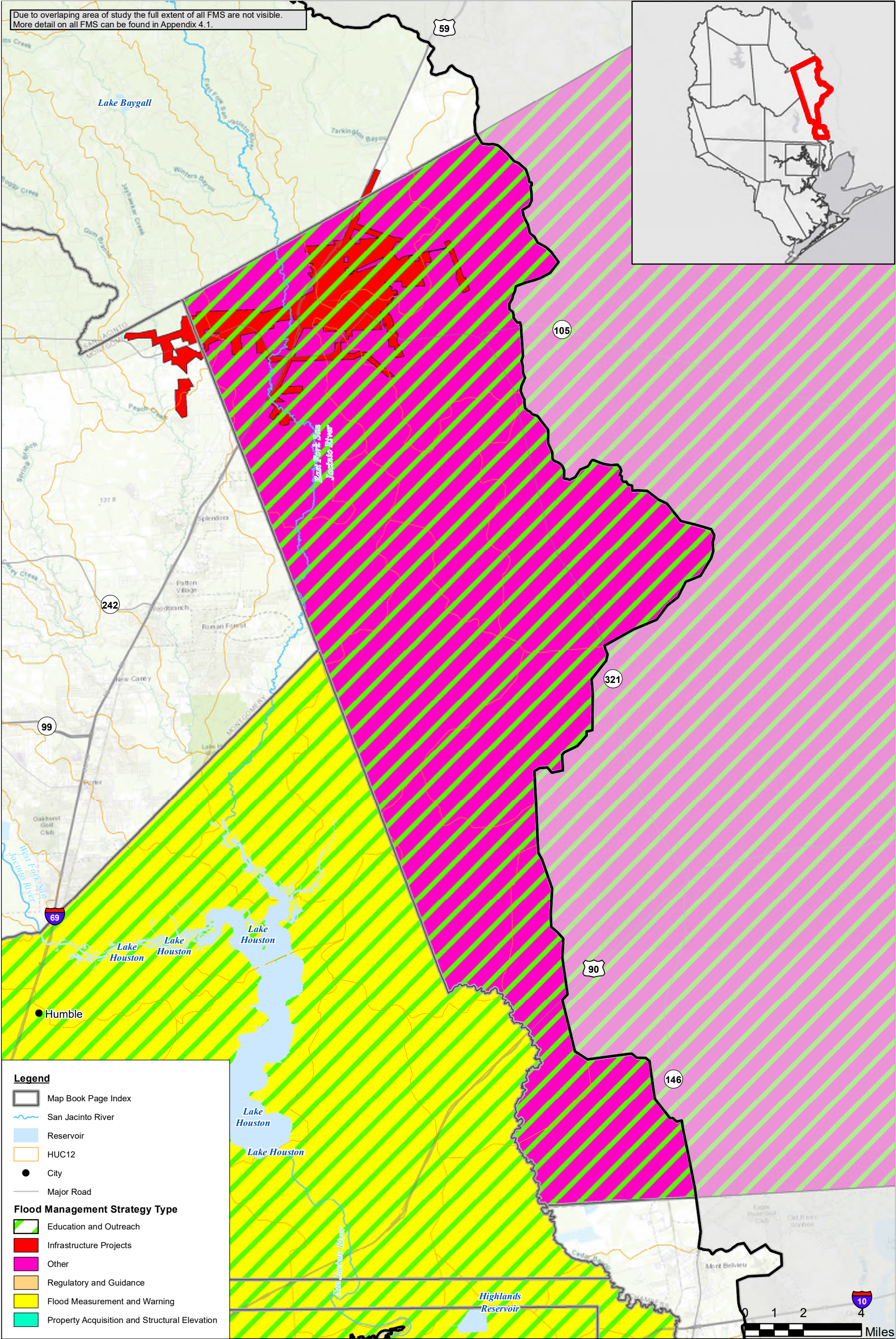
## Recommended Flood Management Strategies - San Jacinto



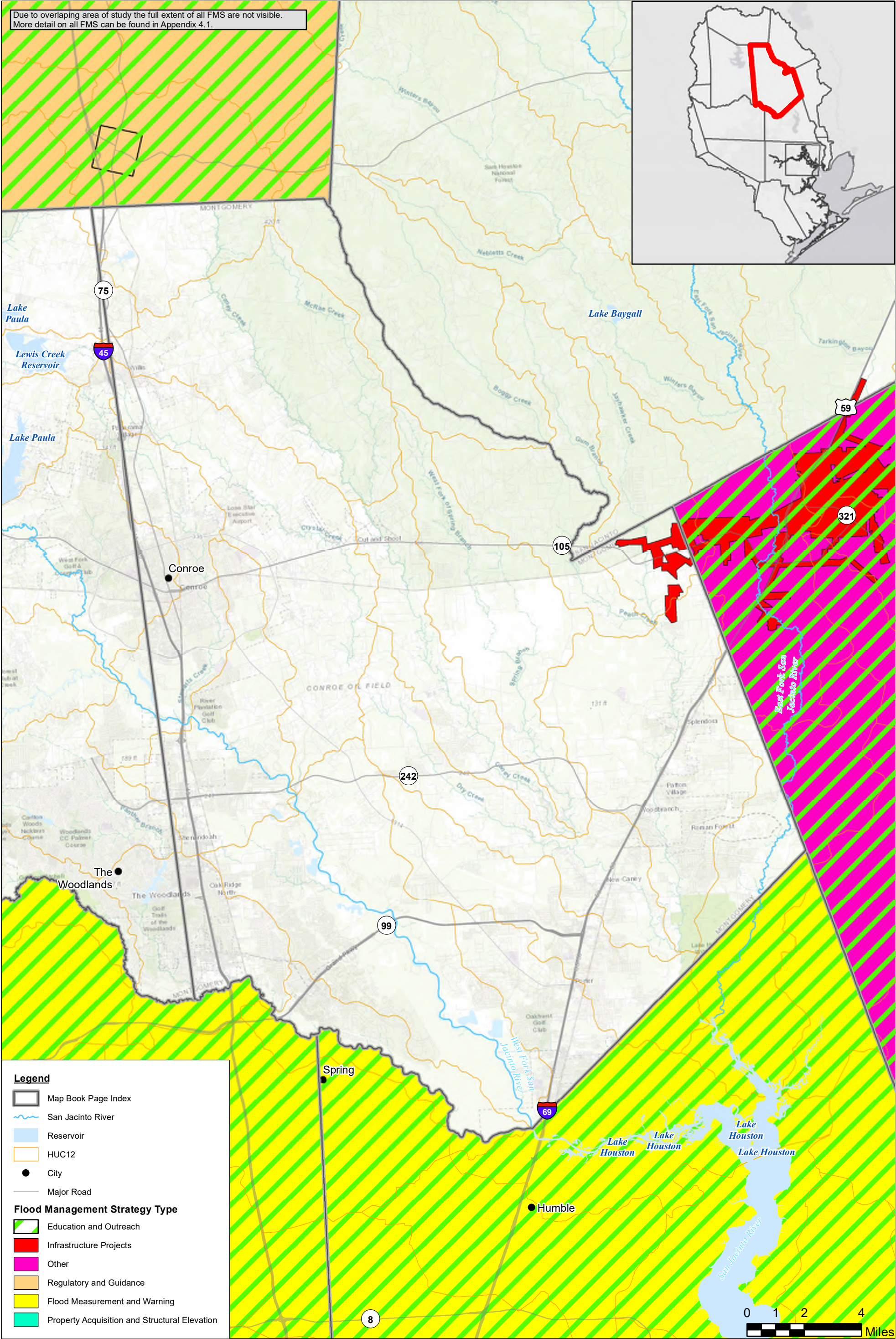
**MAP 21**  
FIGURE 3 of 17

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert

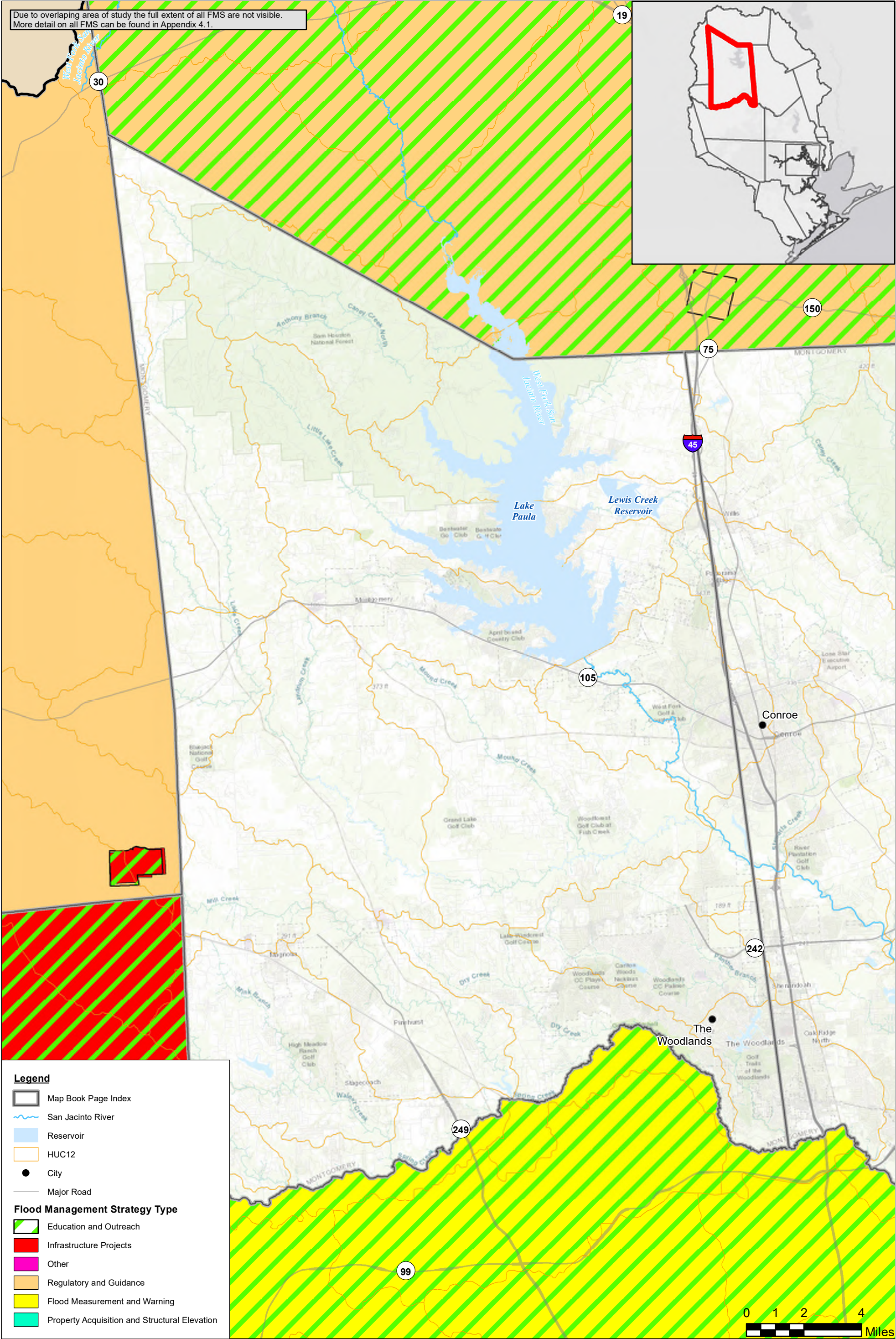






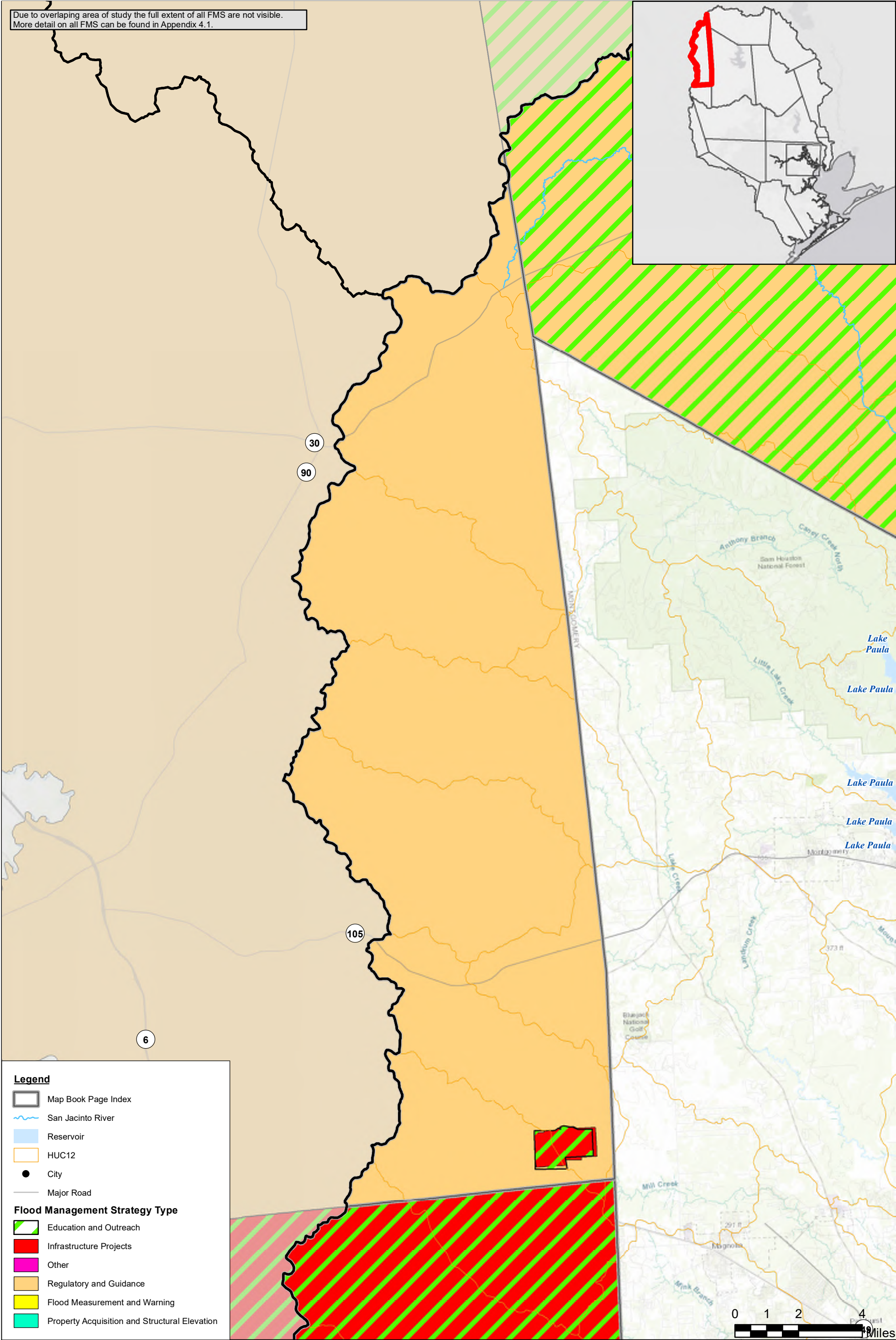
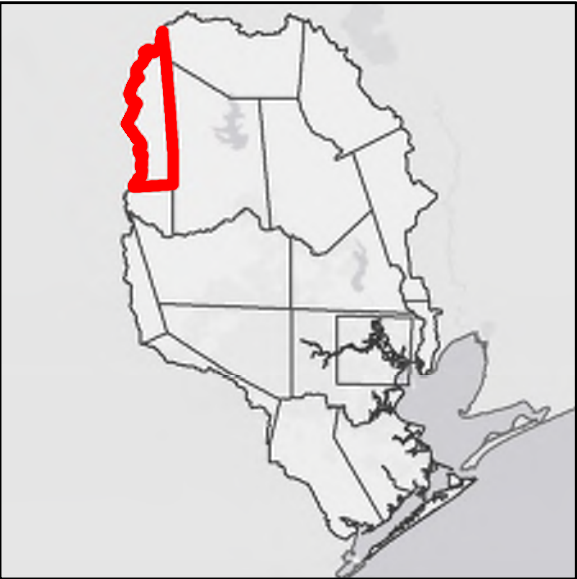








Due to overlapping area of study the full extent of all FMS are not visible.  
More detail on all FMS can be found in Appendix 4.1.



**Legend**

- Map Book Page Index
- San Jacinto River
- Reservoir
- HUC12
- City
- Major Road

**Flood Management Strategy Type**

- Education and Outreach
- Infrastructure Projects
- Other
- Regulatory and Guidance
- Flood Measurement and Warning
- Property Acquisition and Structural Elevation



# San Jacinto Regional Flood Plan

## Recommended Flood Management Strategies - Grimes

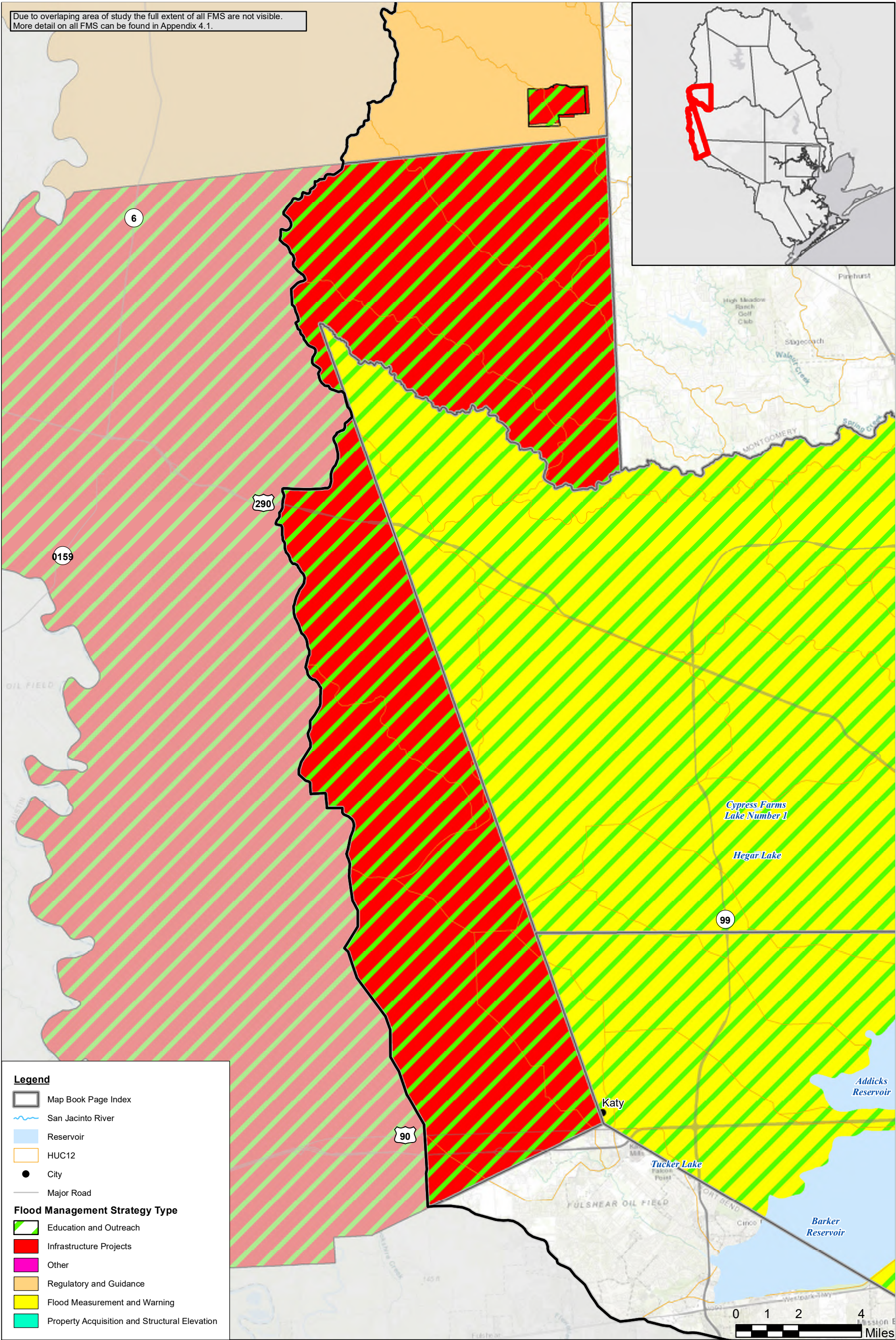


**MAP 21**  
**FIGURE 7 of 17**

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



Due to overlapping area of study the full extent of all FMS are not visible.  
More detail on all FMS can be found in Appendix 4.1.



**Legend**

- Map Book Page Index
- San Jacinto River
- Reservoir
- HUC12
- City
- Major Road

**Flood Management Strategy Type**

- Education and Outreach
- Infrastructure Projects
- Other
- Regulatory and Guidance
- Flood Measurement and Warning
- Property Acquisition and Structural Elevation



San Jacinto Regional Flood Plan

**Recommended Flood Management Strategies - Waller**

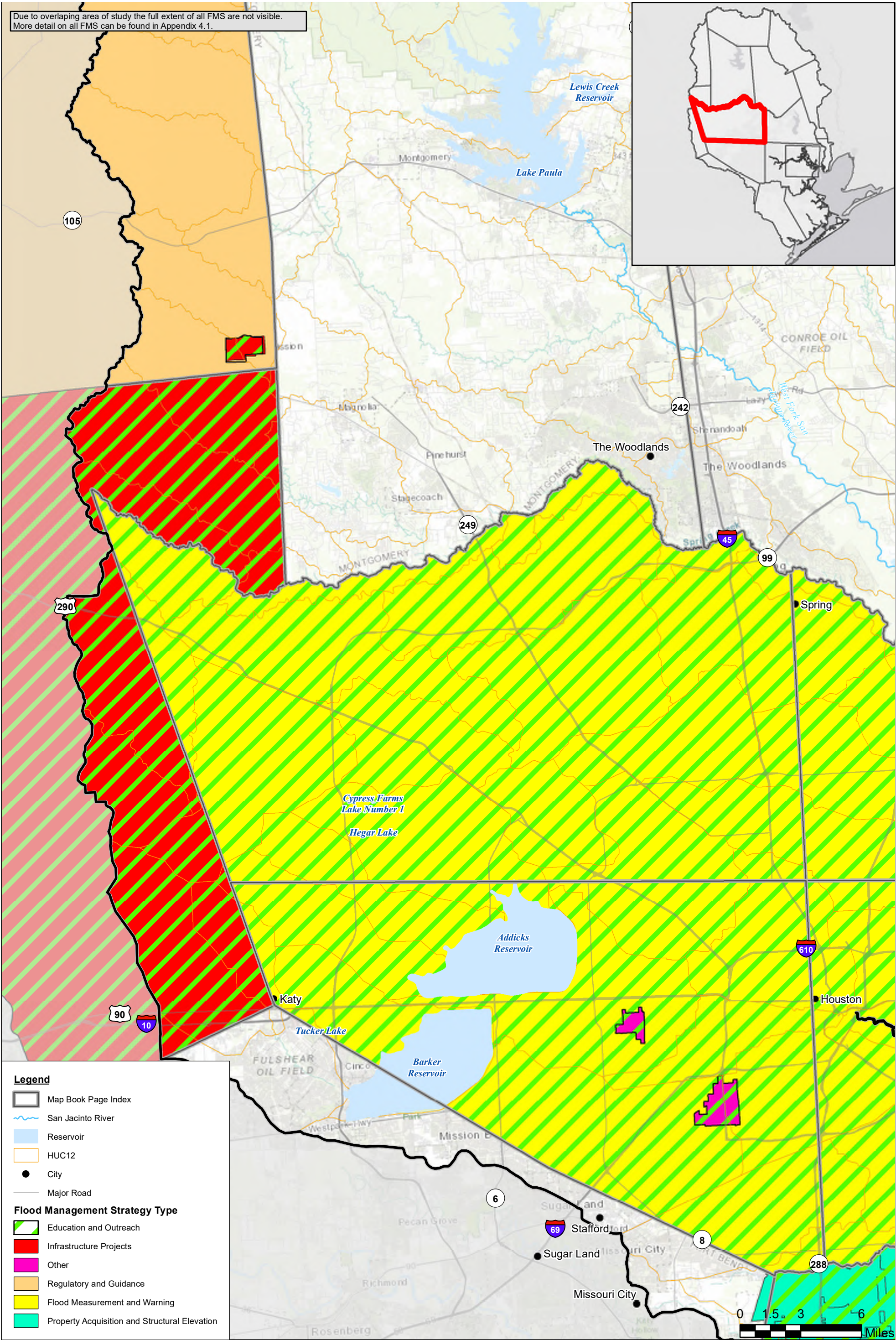


**MAP 21**  
FIGURE 8 of 17

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert



Due to overlapping area of study the full extent of all FMS are not visible.  
More detail on all FMS can be found in Appendix 4.1.



**REGION 6**

# San Jacinto Regional Flood Plan

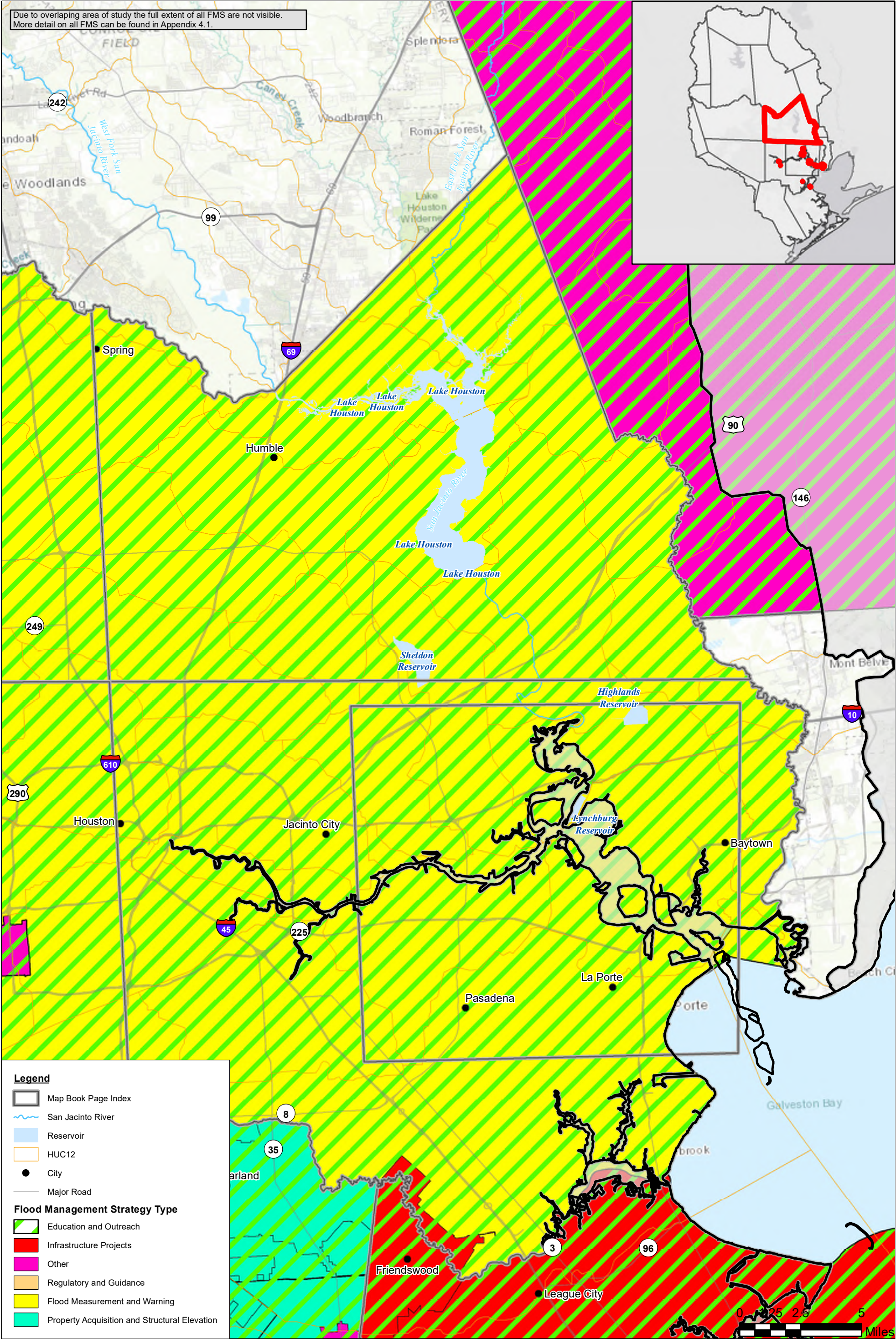
## Recommended Flood Management Strategies - NW Harris



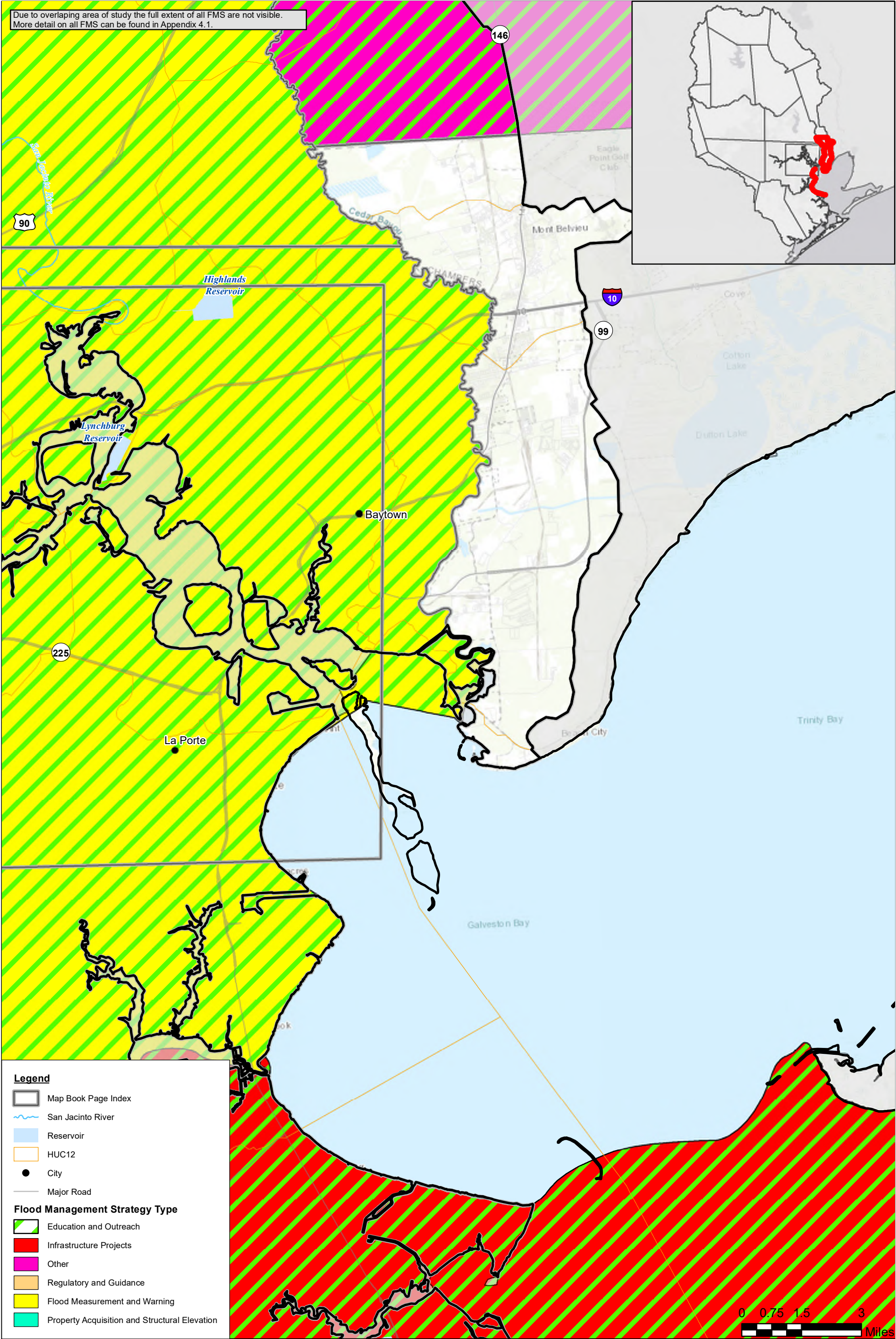
MAP  
21  
FIGURE  
9 of 17

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert

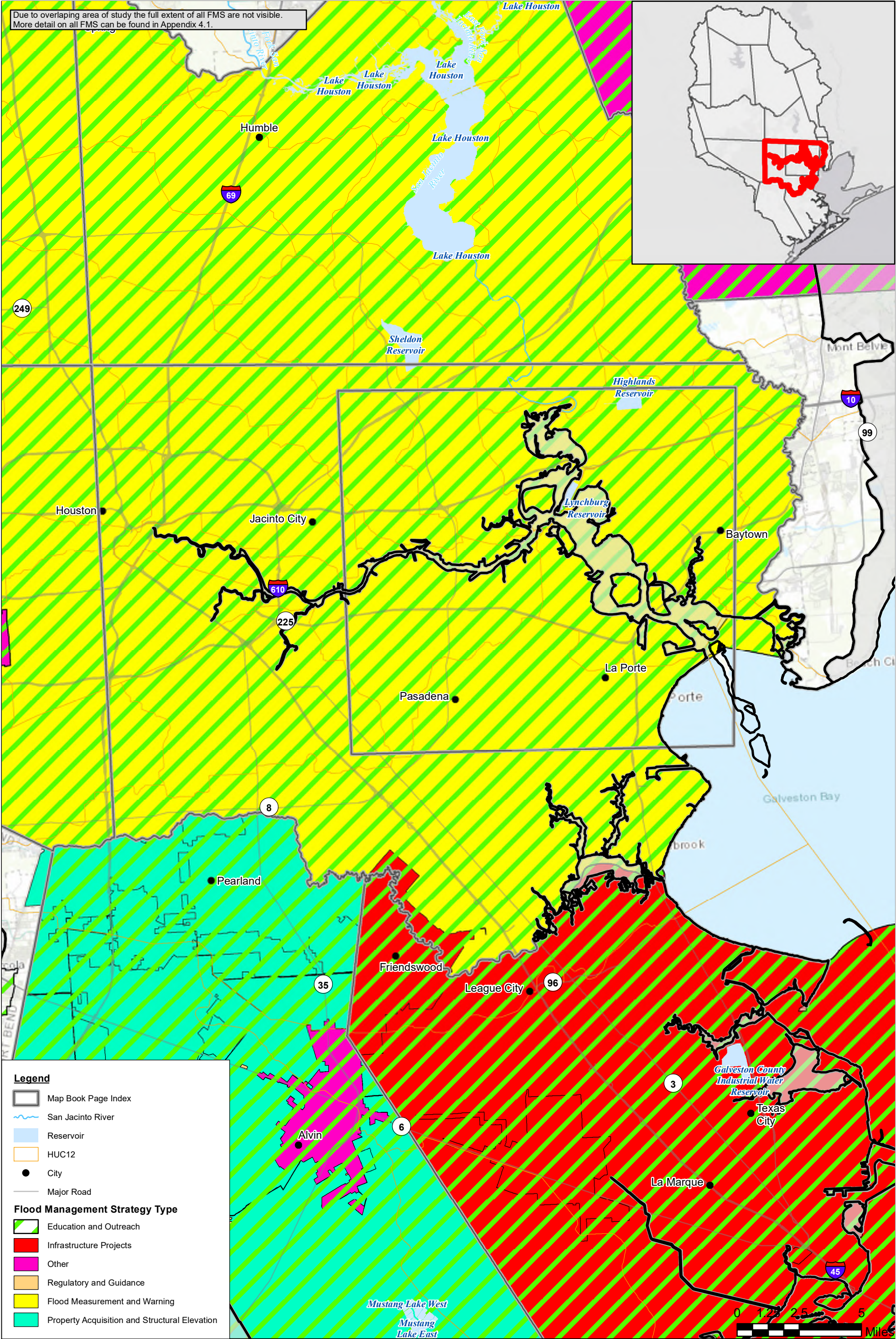






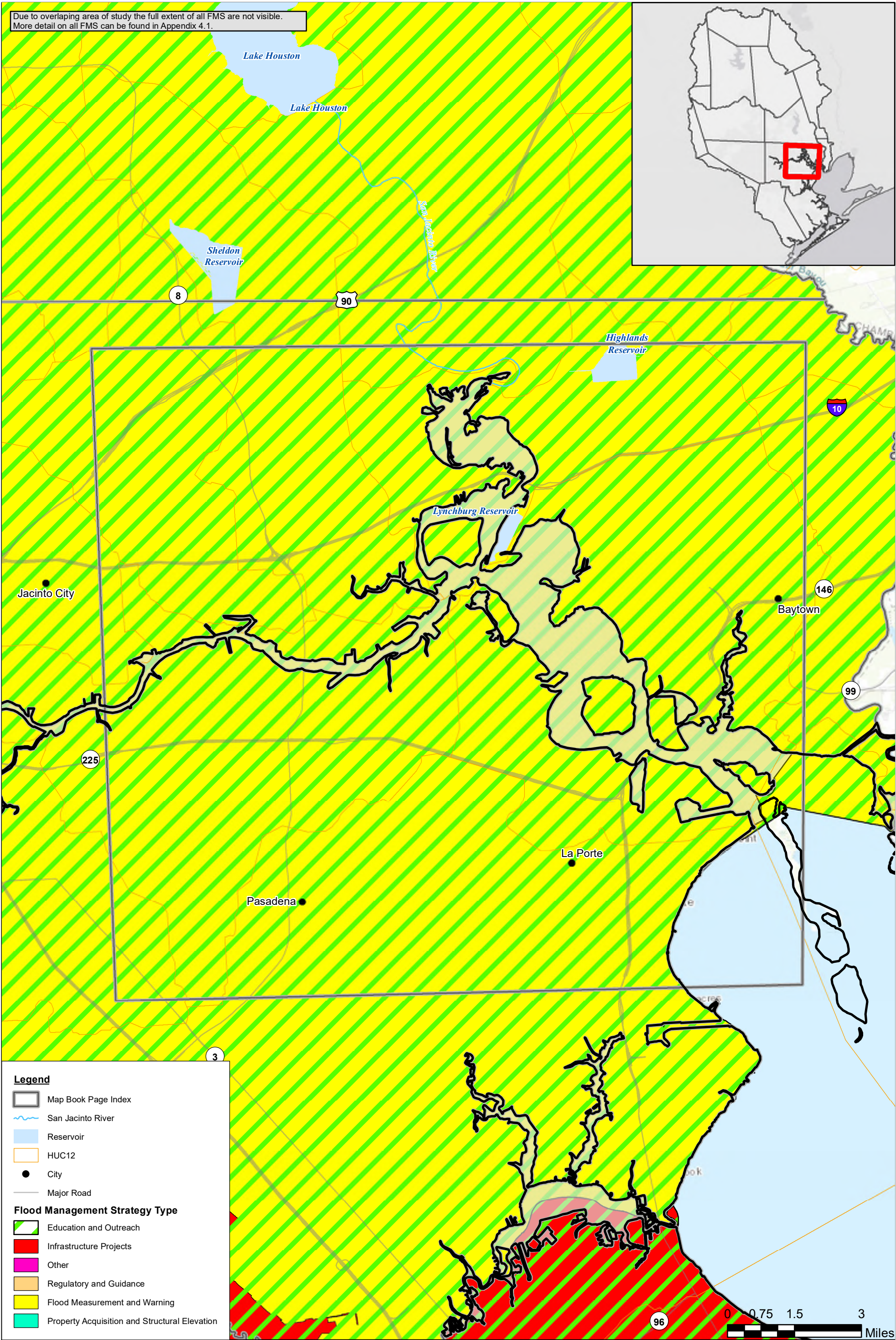




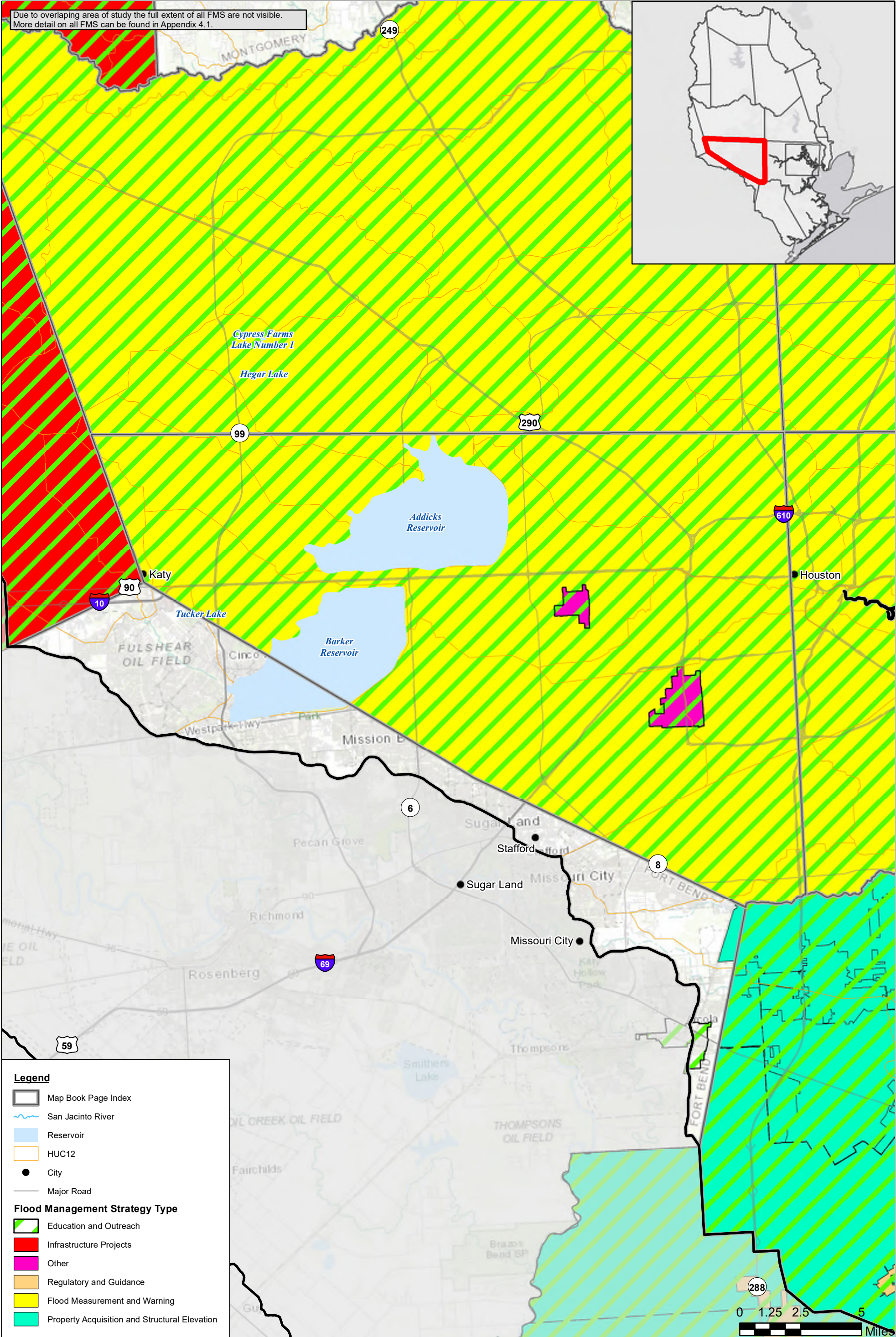




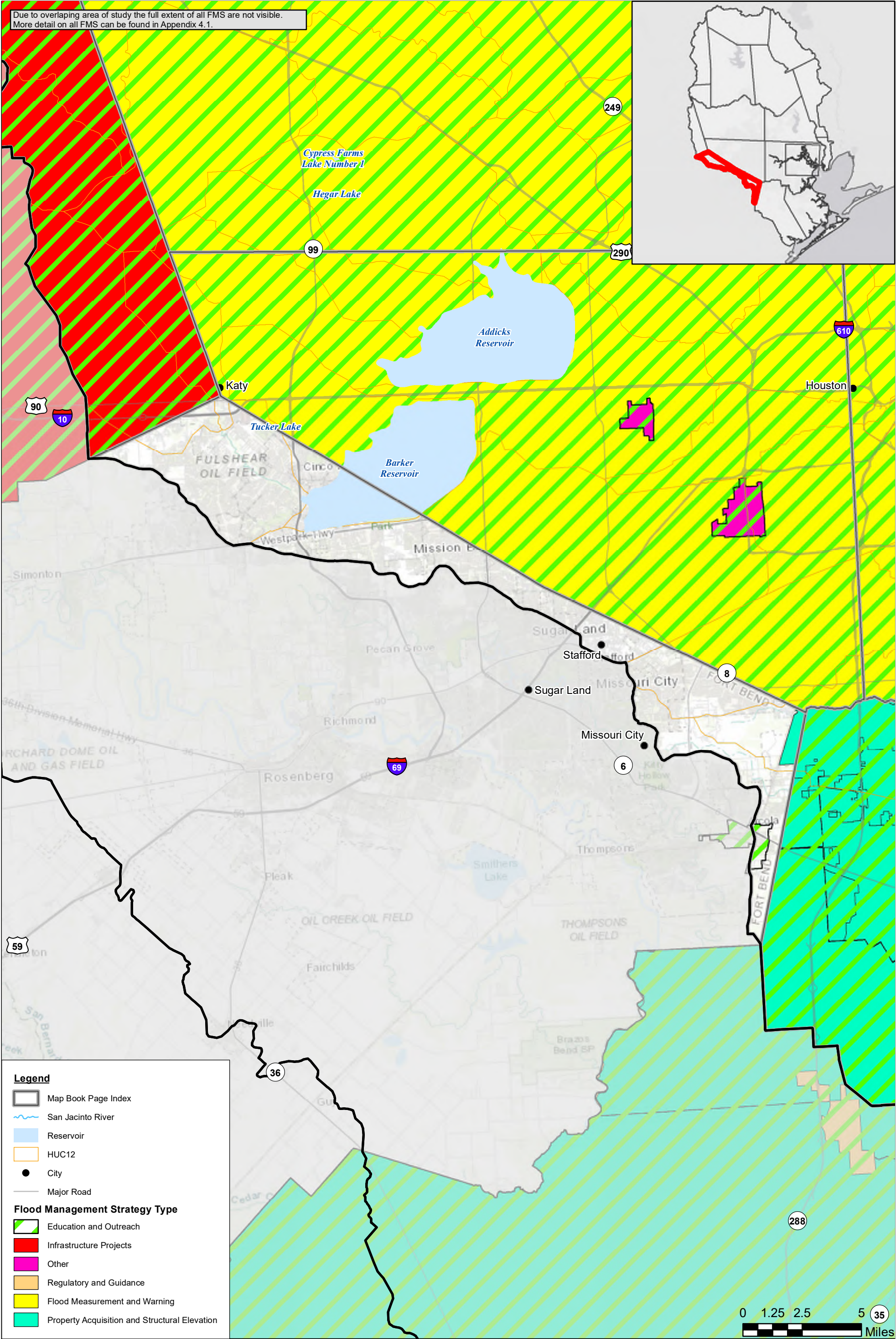
Due to overlapping area of study the full extent of all FMS are not visible.  
More detail on all FMS can be found in Appendix 4.1.



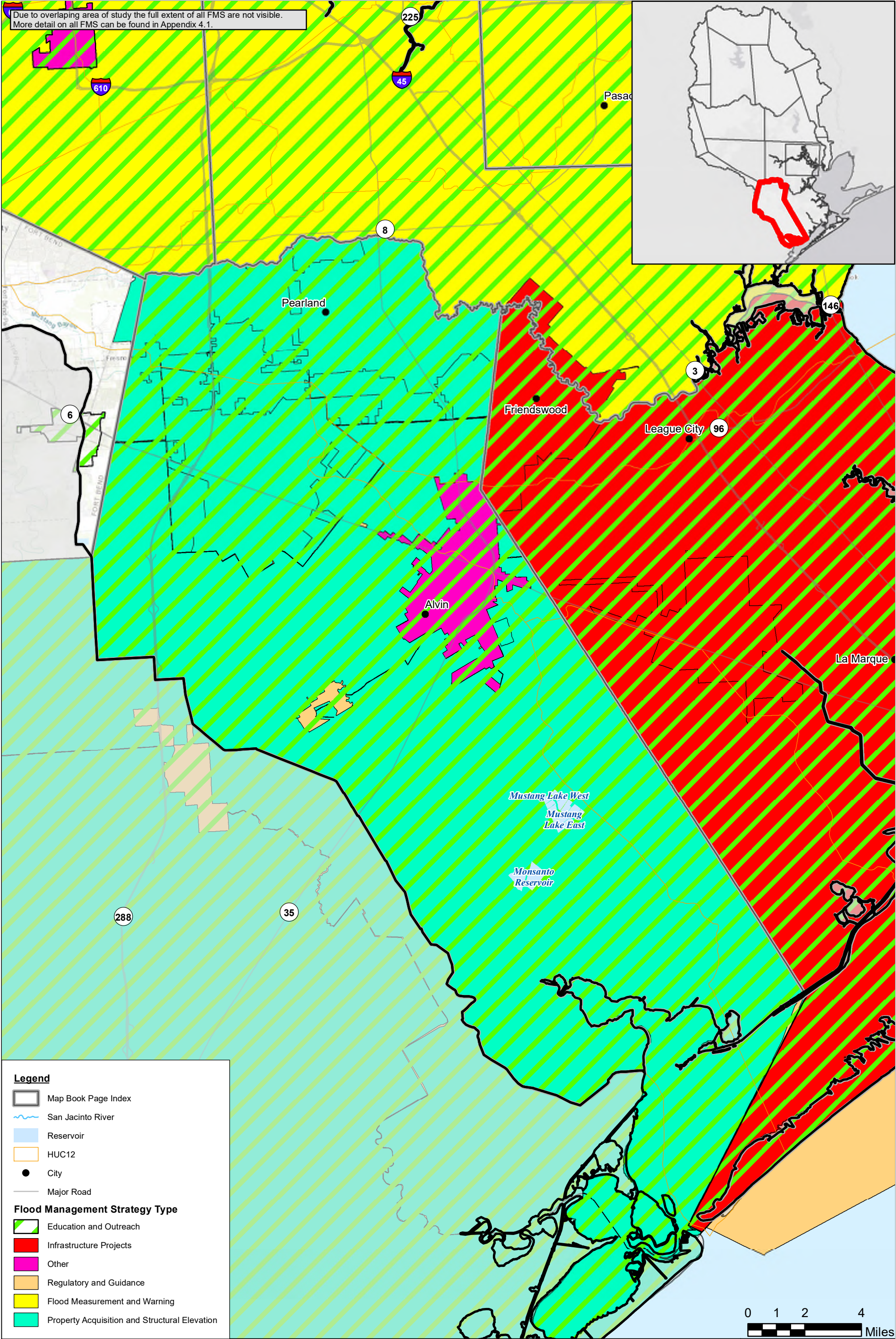




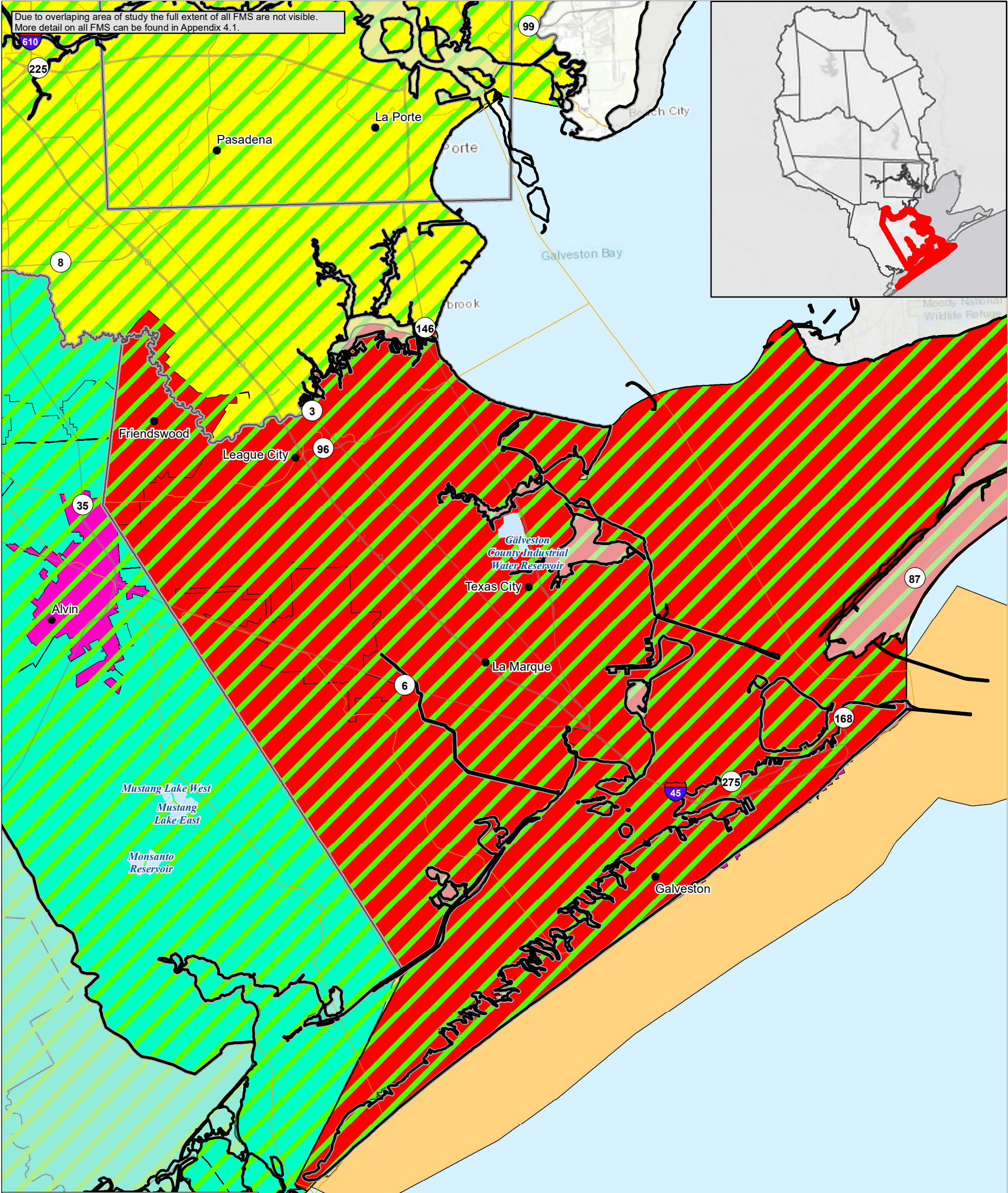












**Legend**

- Map Book Page Index
- San Jacinto River
- Reservoir
- HUC12
- City
- Major Road

**Flood Management Strategy Type**

- Education and Outreach
- Infrastructure Projects
- Other
- Regulatory and Guidance
- Flood Measurement and Warning
- Property Acquisition and Structural Elevation



San Jacinto Regional Flood Plan

**Recommended Flood Management Strategies - Galveston**



**MAP 21**  
FIGURE 17 of 17

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert