

FME Batch 2C

9-Jun-22

	Action Number	Action Name	County	Batch Page Number	TC Rec (Y/N)	Tech Committee Rec Date	RFPG Rec (Y/N)	RFPG Rec Date
				0				
Batch 2C	10100067	Various Streets - Install Flood Early Warning System	Real and others	1	Yes	5/25/2022		
	10100078	Hooten Holler in Richland Springs	San Saba	2	Yes	5/25/2022		
	101000180	Countywide Floodplain Map Update	Sutton and others	3	Yes	5/25/2022		
	101000082	Citywide Drainage Study	Travis	4	Yes	5/25/2022		
	101000084	Bee Creek Drainage Improvements	Travis	5	Yes	5/25/2022		
	101000086	Citywide Drainage Study	Travis	6	Yes	5/25/2022		
	101000163	Jones Brothers Park Flooding	Travis, Williamson	7	Yes	5/25/2022		
	101000090	Various Streets - Upgrade Existing Roadway Crossings	Victoria	8	Yes	5/25/2022		
	101000100	Pecan Street	Wharton	9	Yes	5/25/2022		
	101000101	Town & Country Drive	Wharton	10	Yes	5/25/2022		
	101000162	Countywide Floodplain Map Update	Wharton, Fort Bend	11	Yes	5/25/2022		

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

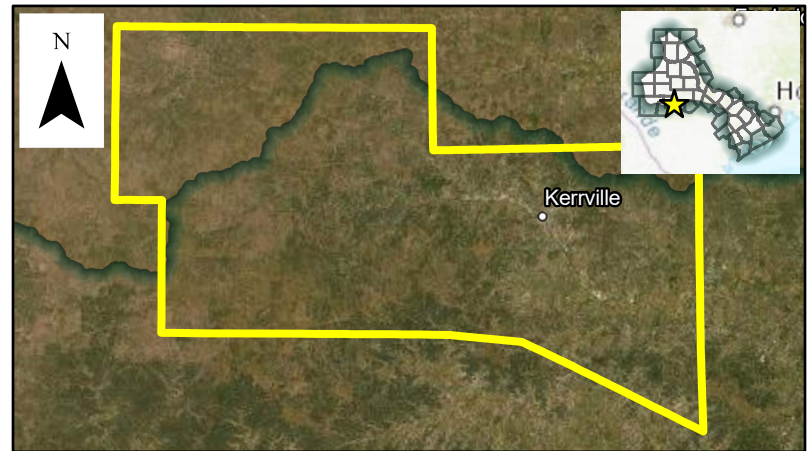
REGION 10

### Study Type

Emergency preparedness  Floodplain modeling, mapping and risk assessment  Feasibility study  Preliminary project engineering  
 Other

### Problem Area

City  County   
Watershed   
name(s)   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
*(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)*  
Other



### Flood Risk Description

The County has identified multiple roadway/crossing that overtop and where structural improvements are not feasible. Proposed study will identify priority crossings to receive flood warning systems or other safety improvements.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Evaluate the type of flood early warnings system (flashers, barricades, signage) and communication systems requirements for the installation and long-term maintenance of the system. Include hydrologic and hydraulic modeling (if needed) including depth, duration and frequency of flooding, daily traffic counts, and length of detour (minutes),

### Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

REGION 10

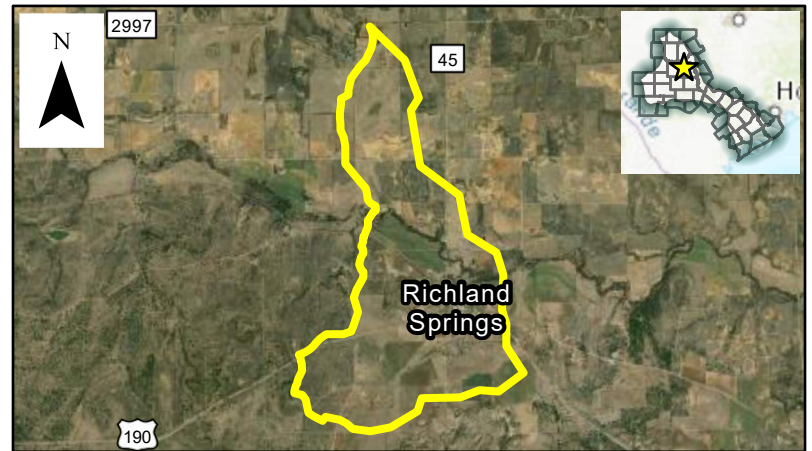
Title **Hooten Holler in Richland Springs** ID# **101000078**  
Sponsor (name of entity) **San Saba (County)** Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

### Study Type

Emergency preparedness  Floodplain modeling, mapping and risk assessment  Feasibility study  Preliminary project engineering  
 Other

### Problem Area

City **N/A** County **San Saba**  
Watershed **Lower Richland Springs Creek**  
name(s)  
Tributary(ies) **Richland Springs Creek**  
HUC# **12090109,12090106** Stream miles (est.) **TBD**  
Drainage area: square miles, est. **5.44** or acreage, est. **3,479**  
Social vulnerability index **0.51**  
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)  
Other **Watershed Study**



### Flood Risk Description

The Sponsor has indicated the existing stormwater infrastructure in the study area and numerous houses are located in the 100-year floodplain. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk **37** Structures at risk **43** Critical facilities at risk **0**  
Farm/Ranch land impacted (acres) **695** Roadway(s) impacted (miles) **1.87**

### Scope of Study

The flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to identify priority flood risk areas, preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

### Estimated Study Cost

Cost **\$100,000** Potential funding source(s) **TBD**

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

REGION 10

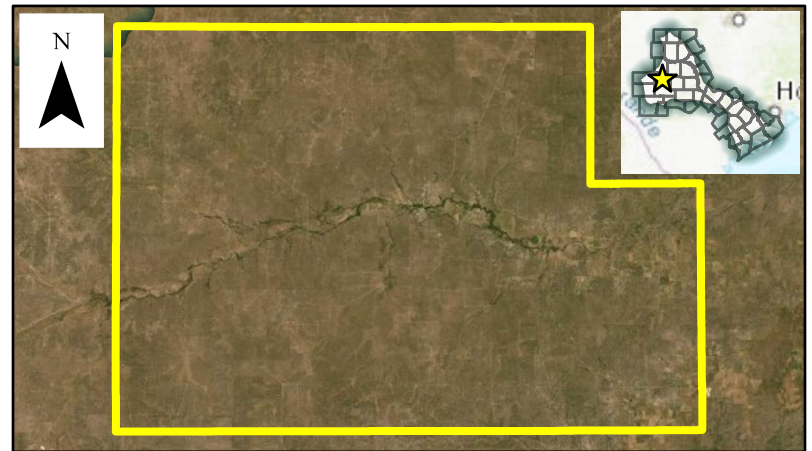
Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

### Study Type

Emergency preparedness  Floodplain modeling, mapping and risk assessment  Feasibility study  Preliminary project engineering  
 Other

### Problem Area

City  County   
Watershed  name(s)   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
*(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)*  
Other



### Flood Risk Description

The existing floodplain maps are outdated and do not reflect the current flood risk.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

The flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) and will develop new floodplain maps that reflect current flood risk.

### Related Goal(s)

3.1 Increase the number of entities that have updated watershed models and floodplain maps to reflect current conditions, including as applicable Atlas 14 (Volume 11) revised rainfall data. 3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 3.3 Increase the number of entities that have digital flood insurance rate maps (DFIRMs) that reflect current conditions.

### Estimated Study Cost

Cost  Potential funding source(s)



# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

REGION 10

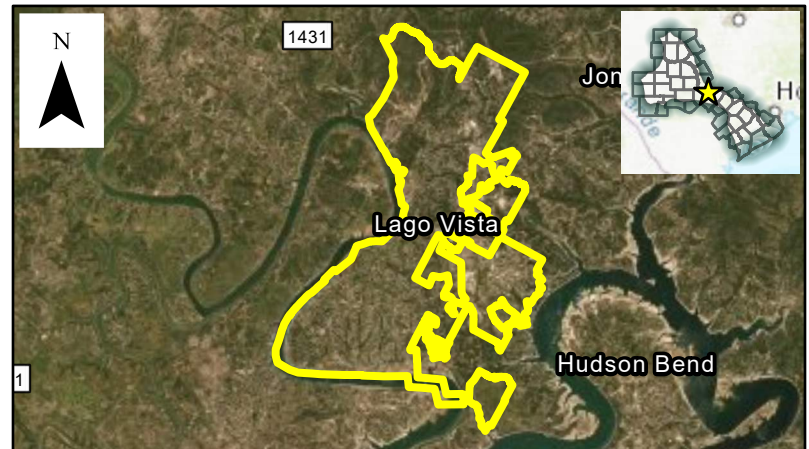
Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

### Study Type

Emergency preparedness  Floodplain modeling, mapping and risk assessment  Feasibility study  Preliminary project engineering  
 Other

### Problem Area

City  County   
Watershed  name(s)  
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
*(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)*  
Other



### Flood Risk Description

The City has multiple local drainage problems and portions of the City are at risk of flooding. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

The Citywide study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to identify priority flood risk areas, preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

REGION 10

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

### Study Type

Emergency preparedness  Floodplain modeling, mapping and risk assessment  Feasibility study  Preliminary project engineering  
 Other

### Problem Area

City  County   
Watershed   
name(s)   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
*(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)*  
Other



### Flood Risk Description

The existing channel and road crossings are undersized resulting in localized erosion as well as flood risk to houses along Yaupon Valley Road and Laurel Valley Road. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

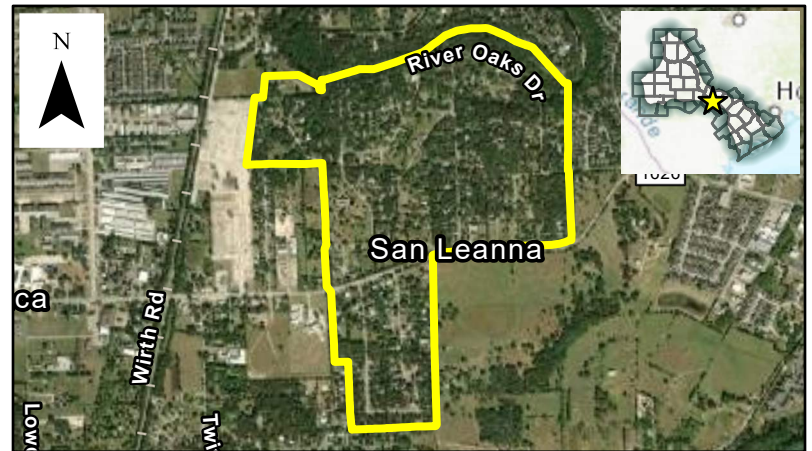
REGION 10

### Study Type

Emergency preparedness  Floodplain modeling, mapping and risk assessment  Feasibility study  Preliminary project engineering  
 Other

### Problem Area

City  County   
Watershed  name(s)  
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
*(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)*  
Other



### Flood Risk Description

The City has multiple local drainage problems and portions of the City are at risk of flooding. The existing risk indicators are based on available data and will be better defined as part of the study. Study will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

The Citywide study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to identify priority flood risk areas, preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

REGION 10

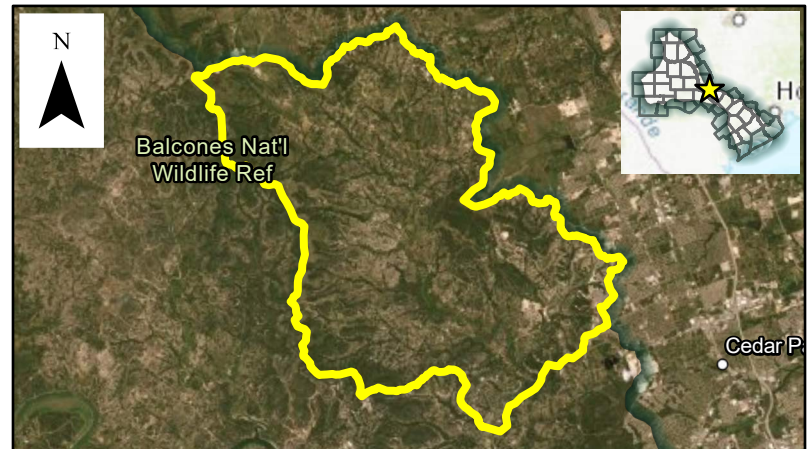
Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

### Study Type

Emergency preparedness  Floodplain modeling, mapping and risk assessment  Feasibility study  Preliminary project engineering  
 Other

### Problem Area

City  County   
Watershed   
name(s)   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)  
Other



### Flood Risk Description

The Sponsor has indicated the existing stormwater infrastructure in the study area is undersized and the area is at risk during large storm events. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles. Sponsor has indicated targeted buyouts are also a potential outcome.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

### Estimated Study Cost

Cost  Potential funding source(s)



# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

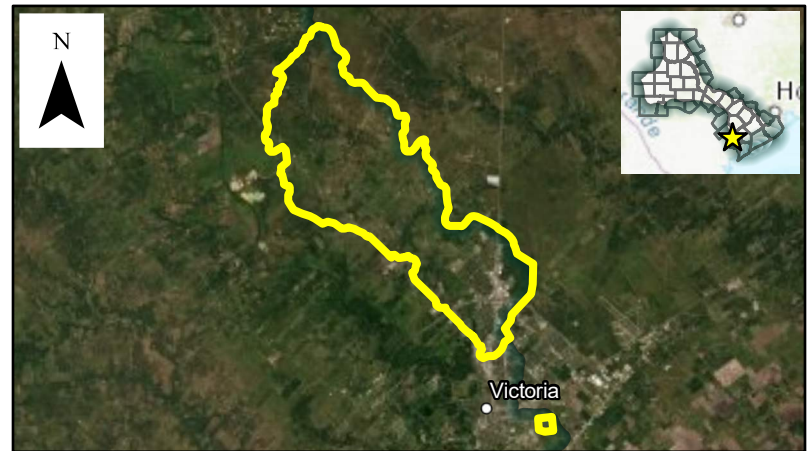
REGION 10

### Study Type

Emergency preparedness  Floodplain modeling, mapping and risk assessment  Feasibility study  Preliminary project engineering  
 Other

### Problem Area

City  County   
Watershed   
name(s)   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)  
Other



### Flood Risk Description

The Sponsor has indicated there are multiple low water crossings that are undersized and overtop. Proposed improvements include upsizing the culverts. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)



# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

REGION 10

Title Pecan Street ID# 101000100  
Sponsor (name of entity) El Campo (Municipality) Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

### Study Type

Emergency preparedness  Floodplain modeling, mapping and risk assessment  Feasibility study  Preliminary project engineering  
 Other

### Problem Area

City El Campo County Wharton  
Watershed Tres Palacios River - Frontal Tres Palacios Bay  
name(s)  
Tributary(ies) Unnamed Tributary  
HUC# 12100401 Stream miles (est.) TBD  
Drainage area: square miles, est. 0.00 or acreage, est. 3  
Social vulnerability index 0.81  
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)  
Other Drainage System Improvements



### Flood Risk Description

The Sponsor has indicated the existing stormwater infrastructure in the study area is undersized and the area is at risk of street and local flooding. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk 7 Structures at risk 5 Critical facilities at risk 0  
Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 1.10

### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost \$100,000 Potential funding source(s) TBD

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

REGION 10

Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

### Study Type

Emergency preparedness  Floodplain modeling, mapping and risk assessment  Feasibility study  Preliminary project engineering  
 Other

### Problem Area

City  County   
Watershed   
name(s)   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)  
Other



### Flood Risk Description

The Sponsor has indicated the existing stormwater infrastructure in the study area is undersized and the area is at risk of street and local flooding. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

REGION 10

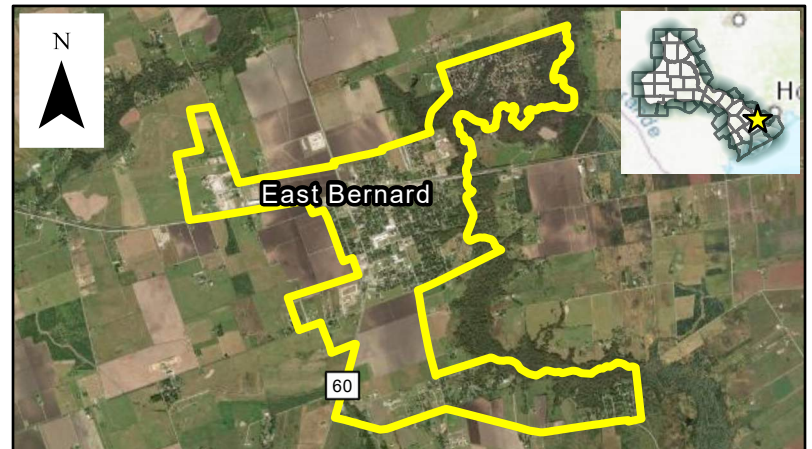
Title  ID#   
Sponsor (name of entity)  Commitment  Yes  No  
Technical committee recommend  Yes  No RFPG recommend  Yes  No

### Study Type

Emergency preparedness  Floodplain modeling, mapping and risk assessment  Feasibility study  Preliminary project engineering  
 Other

### Problem Area

City  County   
Watershed   
name(s)   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
*(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)*  
Other



### Flood Risk Description

The existing floodplain maps are outdated and do not reflect current flood risk.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

The Citywide flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) and will develop new floodplain maps that reflect current flood risk.

### Related Goal(s)

3.1 Increase the number of entities that have updated watershed models and floodplain maps to reflect current conditions, including as applicable Atlas 14 (Volume 11) revised rainfall data. 3.3 Increase the number of entities that have digital flood insurance rate maps (DFIRMs) that reflect current conditions.

### Estimated Study Cost

Cost  Potential funding source(s)