**FME Batch 3** **25-May-22**

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# Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
**REGIONAL FLOOD PLANNING GROUP**
REGION 10

Title Pecan Shores Subdivision ID# 101000009

Sponsor (name of entity) Bastrop (County) Commitment [X] Yes [ ] No

Technical committee recommend [ ] Yes [ ] No RFPG recommend [ ] Yes [ ] No

## Study Type

[ ] Emergency preparedness [ ] Floodplain modeling, mapping and risk assessment [X] Feasibility study [ ] Preliminary project engineering

[ ] Other

## Problem Area

City N/A County Bastrop

Watershed name(s) Willow Creek - Colorado River

Tributary(ies) Unnamed Tributary

HUC# 12090301 Stream miles (est.) TBD

Drainage area: square miles, est 0.05 or acreage, est. 29

Social vulnerability index 0.61
*(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)*

Other Voluntary buyout of homes in 100-year FP (48 homes)


## Flood Risk Description

There are up to 48 flood prone properties on/near Pecan Shores Drive that are within the 100-year floodplain and subject to repetitive loss.

Population at risk 144 Structures at risk 48 Critical facilities at risk 0

Farm/Ranch land impacted (acres) 18 Roadway(s) impacted (miles) 0.43

## Scope of Study

The study will include hydrologic and hydraulic modeling (with Atlas 14) to identify/verify eligible property owners.

## Related Goal(s)

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.

## Estimated Study Cost

Cost $150,000 Potential funding source(s) TBD

DRAFT

# Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title Hidden Shores Subdivision ID# 101000010

Sponsor (name of entity) Bastrop (County) Commitment [X] Yes [ ] No

Technical committee recommend [ ] Yes [ ] No RFPG recommend [ ] Yes [ ] No

## Study Type

[ ] Emergency preparedness [ ] Floodplain modeling, mapping and risk assessment [X] Feasibility study [ ] Preliminary project engineering

[ ] Other

## Problem Area

City N/A County Bastrop

Watershed name(s) Willow Creek - Colorado River, Little Piney Creek - Colorado River

Tributary(ies) Unnamed Tributary

HUC# 12090301 Stream miles (est.) TBD

Drainage area: square miles, est 0.14 or acreage, est. 89

Social vulnerability index 0.61

*(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)*

Other Voluntary buyout of homes in floodway (22 homes)


## Flood Risk Description

There are up to 22 flood prone properties on/near Hidden Shores Loop that are within the 100-year floodplain and subject to repetitive loss.

Population at risk 68 Structures at risk 39 Critical facilities at risk 0

Farm/Ranch land impacted (acres) 68 Roadway(s) impacted (miles) 1.13

## Scope of Study

The study will include hydrologic and hydraulic modeling (with Atlas 14) to identify/verify eligible property owners.

## Related Goal(s)

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.

## Estimated Study Cost

Cost $150,000 Potential funding source(s) TBD

DRAFT

# Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Waters Edge Terrace Subdivision | ID#: 101000011

Sponsor (name of entity): Bastrop (County) | Commitment: [X] Yes [ ] No

Technical committee recommend: [ ] Yes [ ] No | RFPG recommend: [ ] Yes [ ] No

## Study Type

[ ] Emergency preparedness [ ] Floodplain modeling, mapping and risk assessment [X] Feasibility study [ ] Preliminary project engineering

[ ] Other

## Problem Area

City: N/A | County: Bastrop

Watershed name(s): Coleman Branch - Colorado River

Tributary(ies): Unnamed Tributary

HUC#: 12090301 | Stream miles (est.): TBD

Drainage area: square miles, est: 0.05 | or acreage, est.: 34

Social vulnerability index: 0.61

*(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)*

Other: Voluntary buyout of homes in 100-year FP (12 homes)


## Flood Risk Description

There are up to 12 flood prone properties on/near Waters Edge Terrace Drive that are within the 100-year floodplain and subject to repetitive loss.

Population at risk: 1 | Structures at risk: 43 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 18 | Roadway(s) impacted (miles): 0.46

## Scope of Study

The study will include hydrologic and hydraulic modeling (with Atlas 14) to identify/verify eligible property owners.

## Related Goal(s)

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.

## Estimated Study Cost

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

DRAFT

# Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Smithville Recreation Center Expansion | ID#: 101000026

Sponsor (name of entity): Smithville (Municipality) | Commitment: [X] Yes [ ] No

Technical committee recommend: [ ] Yes [ ] No | RFPG recommend: [ ] Yes [ ] No

## Study Type

[X] Emergency preparedness [ ] Floodplain modeling, mapping and risk assessment [X] Feasibility study [ ] Preliminary project engineering

[ ] Other

## Problem Area

City: Smithville | County: Bastrop

Watershed name(s): Willow Creek - Colorado River

Tributary(ies): Unnamed Tributary

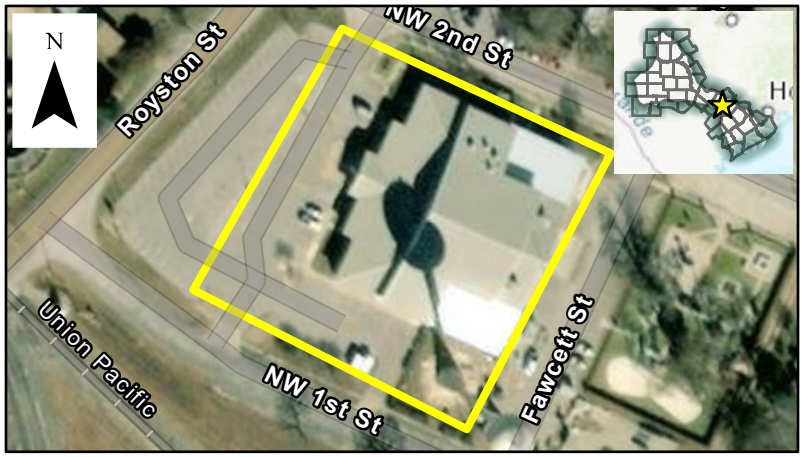
HUC#: 12090301 | Stream miles (est.): TBD

Drainage area: square miles, est: 0.00 | or acreage, est.: 2

Social vulnerability index: 0.61

*(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)*

Other: Structure/Infrastructure




## Flood Risk Description

Sponsor has indicated the desire to expand and improve the shelter-in-place capability of the Center.

Population at risk: 0 | Structures at risk: 0 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 0 | Roadway(s) impacted (miles): TBD

## Scope of Study

Evaluate the existing building and determine feasibility and costs associated with providing expanded capacity.

## 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.

## Estimated Study Cost

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

DRAFT

# Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Taylor Lane Drainage Improvements | ID#: 101000155

Sponsor (name of entity): Elgin (Municipality) | Commitment: [X] Yes [ ] No

Technical committee recommend: [ ] Yes [ ] No | RFPG recommend: [ ] Yes [ ] No

## Study Type

[ ] Emergency preparedness [ ] Floodplain modeling, mapping and risk assessment [ ] Feasibility study [X] Preliminary project engineering

[ ] Other

## Problem Area

City: Elgin | County: Bastrop

Watershed name(s): Elm Creek - Dry Creek, Little Sandy Creek, Little Sandy Creek - Big Sandy Creek

Tributary(ies): Burlson Creek

HUC#: 12090301 | Stream miles (est.): TBD

Drainage area: square miles, est: 2.09 | or acreage, est.: 1,340

Social vulnerability index: 0.61

*(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)*

Other: Roadway/Crossing Improvements & Channel Improvements


## Flood Risk Description

The sponsor has indicated the existing stormwater infrastructure in the study area (northeastern part of the City) is undersized and the area is at risk of street flooding, property flooding, and potential structural flooding. The exact risk is not well defined, and the risk indicators are based on the study area. 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: 50 | Structures at risk: 14 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 112 | Roadway(s) impacted (miles): 0.18

## Scope of Study

Conduct a study to evaluate the study area. 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

DRAFT

# Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Storm Water Detention at Morris Park | ID#: 101000156

Sponsor (name of entity): Elgin (Municipality) | Commitment: [X] Yes [ ] No

Technical committee recommend: [ ] Yes [ ] No | RFPG recommend: [ ] Yes [ ] No

## Study Type

[ ] Emergency preparedness [ ] Floodplain modeling, mapping and risk assessment [ ] Feasibility study [X] Preliminary project engineering

[ ] Other

## Problem Area

City: Elgin | County: Bastrop

Watershed name(s): Little Sandy Creek

Tributary(ies): Unnamed Tributary

HUC#: 12090301 | Stream miles (est.): TBD

Drainage area: square miles, est: 0.17 | or acreage, est.: 107

Social vulnerability index: 0.61
*(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)*

Other: Regional Detention


## Flood Risk Description

The City has identified the need for additional stormwater storage to reduce the flood risk to the surrounding areas. The sponsor has indicated the existing stormwater infrastructure in the study area is undersized and the area is at risk of street flooding, property flooding, and potential structural flooding. The exact risk is not well defined, and the risk indicators are based on the study area. 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: 0 | Structures at risk: 0 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 0 | Roadway(s) impacted (miles): TBD

## Scope of Study

Conduct a study to evaluate the area. 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: $150,000 | Potential funding source(s): TBD

DRAFT

# Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Update and Maintain Emergency Management Plan | ID#: 101000105

Sponsor (name of entity): Blanco (County) | Commitment: [X] Yes [ ] No

Technical committee recommend: [ ] Yes [ ] No | RFPG recommend: [ ] Yes [ ] No

## Study Type

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

## Problem Area

City: N/A | County: Blanco

Watershed name(s): Multiple Watersheds

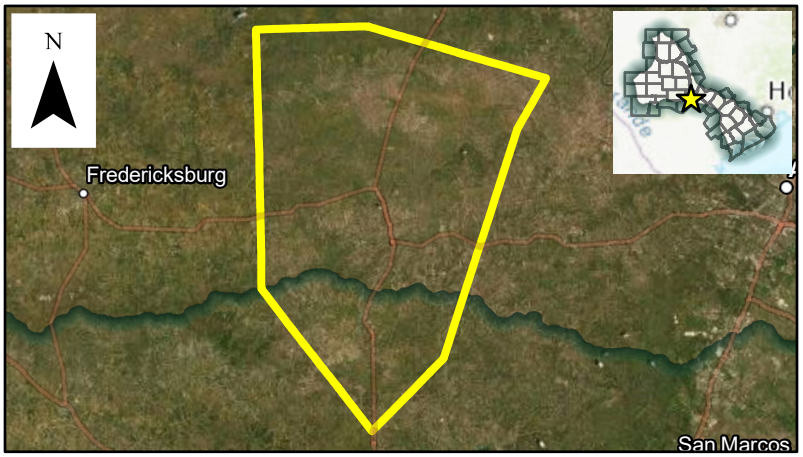
Tributary(ies): Unnamed Tributary

HUC#: 12090201,12090205 | Stream miles (est.): TBD

Drainage area: square miles, est: 710.98 | or acreage, est.: 455,029

Social vulnerability index: 0.07
*(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)*

Other: Local Plans & Regulations




## Flood Risk Description

The City has identified the need to develop/update an evacuation plan for the safety of the community.

Population at risk: 665 | Structures at risk: 294 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 25,476 | Roadway(s) impacted (miles): 15.31

## 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.

## Estimated Study Cost

Cost: $25,000 | Potential funding source(s): TBD

DRAFT

# Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Dam Emergency Action Plan | ID#: 101000138

Sponsor (name of entity): Burnet (Municipality) | Commitment: [X] Yes [ ] No

Technical committee recommend: [ ] Yes [ ] No | RFPG recommend: [ ] Yes [ ] No

## Study Type

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

## Problem Area

City: Burnet | County: Burnet

Watershed name(s): Clear Creek - Inks Lake, Headwaters Hamilton Creek

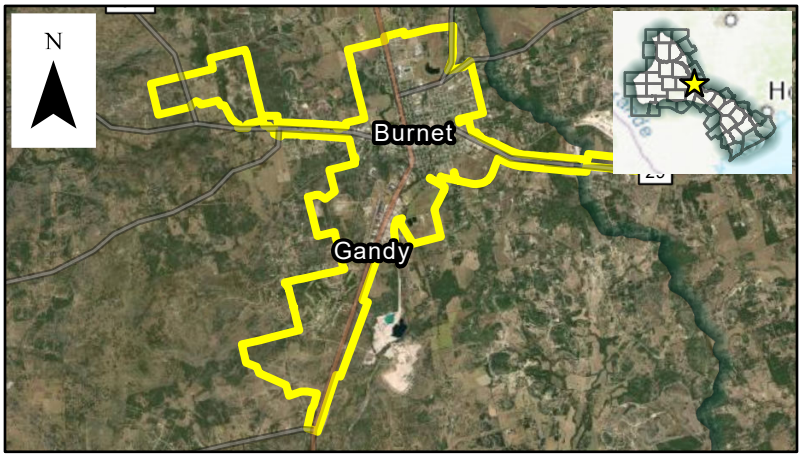
Tributary(ies): Unnamed Tributary

HUC#: 12090201,12090205 | Stream miles (est.): TBD

Drainage area: square miles, est: 10.79 | or acreage, est.: 6,906

Social vulnerability index: 0.19
*(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)*

Other: Local Plans & Regulations




## Flood Risk Description

The Sponsor has identified the need to develop/update an emergency action plan for the safety of the community.

Population at risk: 807 | Structures at risk: 187 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 589 | Roadway(s) impacted (miles): 4.18

## 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.

## Estimated Study Cost

Cost: $50,000 | Potential funding source(s): TBD

DRAFT

# Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Whitman Branch Regional Detention Pond | ID#: 101000165

Sponsor (name of entity): Marble Falls (Municipality) | Commitment: [X] Yes [ ] No

Technical committee recommend: [ ] Yes [ ] No | RFPG recommend: [ ] Yes [ ] No

## Study Type

[ ] Emergency preparedness [ ] Floodplain modeling, mapping and risk assessment [ ] Feasibility study [X] Preliminary project engineering

[ ] Other

## Problem Area

City: Marble Falls | County: Burnet

Watershed name(s): Backbone Creek

Tributary(ies): Whitman Branch

HUC#: 12090205 | Stream miles (est.): TBD

Drainage area: square miles, est: 0.67 | or acreage, est.: 431

Social vulnerability index: 0.19

*(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)*

Other: Regional Detention


## Flood Risk Description

The area of concern along Whitman Branch has insufficient channel capacity and undersized bridge/culvert crossings. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion. The exact risk is not well defined, and the risk indicators are based on the study area. 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: 0 | Structures at risk: 0 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 23 | Roadway(s) impacted (miles): 0.18

## Scope of Study

The study will build upon and update previously conducted flood risk reduction studies. Study will include hydrologic and hydraulic modeling, 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: $150,000 | Potential funding source(s): TBD

DRAFT

# Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Ave J Bridge Replacement | ID#: 101000166

Sponsor (name of entity): Marble Falls (Municipality) | Commitment: [X] Yes [ ] No

Technical committee recommend: [ ] Yes [ ] No | RFPG recommend: [ ] Yes [ ] No

## Study Type

[ ] Emergency preparedness [ ] Floodplain modeling, mapping and risk assessment [ ] Feasibility study [X] Preliminary project engineering

[ ] Other

## Problem Area

City: Marble Falls | County: Burnet

Watershed name(s): Backbone Creek

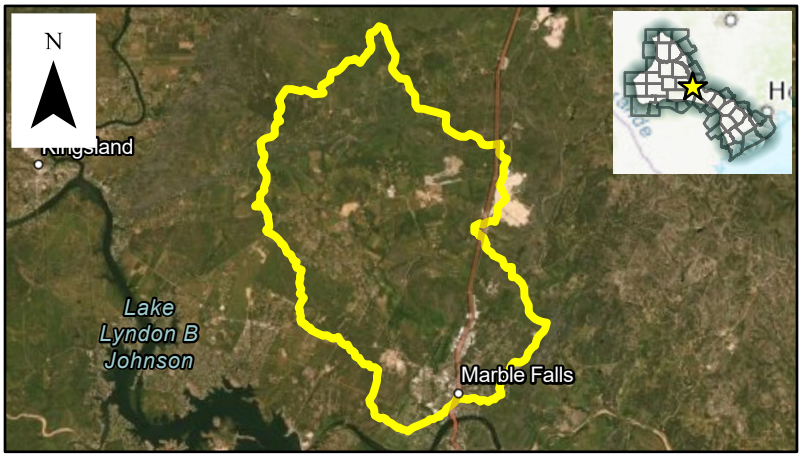
Tributary(ies): Unnamed Tributary

HUC#: 12090201,12090205 | Stream miles (est.): TBD

Drainage area: square miles, est: 40.20 | or acreage, est.: 25,726

Social vulnerability index: 0.19
*(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)*

Other: Roadway/Crossing Improvements




## Flood Risk Description

The existing bridge overtops. The proposed improvements include improvements/replacement of the existing bridge. The existing bridge is a 2-lane road with an average daily traffic count of 2,447.

Population at risk: 0 | Structures at risk: 0 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 0 | Roadway(s) impacted (miles): 0.50

## 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: $100,000 | Potential funding source(s): TBD

DRAFT

# Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Broadway Street at Whitman Branch Low Water Crossing | ID#: 101000167

Sponsor (name of entity): Marble Falls (Municipality) | Commitment: [X] Yes [ ] No

Technical committee recommend: [ ] Yes [ ] No | RFPG recommend: [ ] Yes [ ] No

## Study Type

[ ] Emergency preparedness [ ] Floodplain modeling, mapping and risk assessment [ ] Feasibility study [X] Preliminary project engineering

[ ] Other

## Problem Area

City: Marble Falls | County: Burnet

Watershed name(s): Hamilton Creek - Lake Travis

Tributary(ies): Whitman Branch

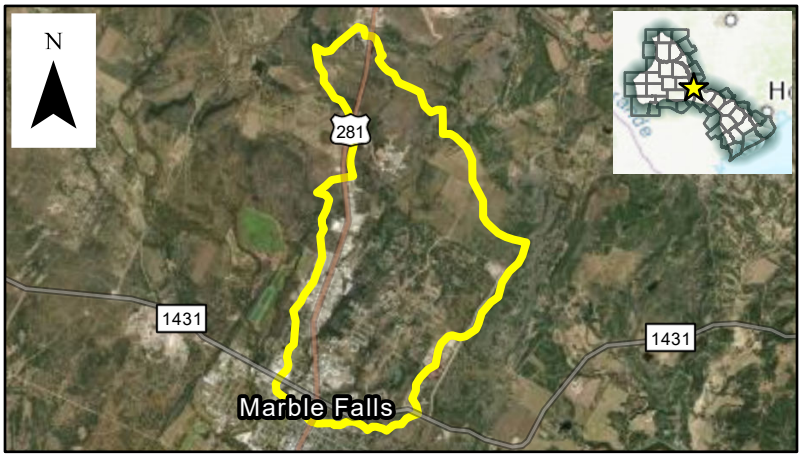
HUC#: 12090205 | Stream miles (est.): TBD

Drainage area: square miles, est: 5.65 | or acreage, est.: 3,617

Social vulnerability index: 0.19

*(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)*

Other: Roadway/Crossing Improvements & Channel Improvements




## Flood Risk Description

The existing culvert crossing is undersized and overtops. The proposed improvements include enlarging the existing culverts. The existing road is a 2-lane road with an average daily traffic count of 2,220.

Population at risk: 0 | Structures at risk: 0 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 0 | Roadway(s) impacted (miles): 0.20

## Scope of Study

Conduct a study to evaluate upsizing the existing culvert 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: $100,000 | Potential funding source(s): TBD

DRAFT

# Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title 1431/281 Detention ID# 101000168

Sponsor (name of entity) Marble Falls (Municipality) Commitment X Yes No

Technical committee recommend Yes No RFPG recommend Yes No

## Study Type

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

Other

## Problem Area

City Marble Falls County Burnet

Watershed name(s) Backbone Creek

Tributary(ies) Unnamed Tributary

HUC# 12090205 Stream miles (est.) TBD

Drainage area: square miles, est 1.20 or acreage, est. 768

Social vulnerability index 0.19
*(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)*

Other Regional Detention


## Flood Risk Description

The area of concern between Whitman Branch and Hamilton Creek has insufficient channel capacity and undersized bridge/culvert crossings. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion. The exact risk is not well defined, and the risk indicators are based on the study area. 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 18 Structures at risk 5 Critical facilities at risk 0

Farm/Ranch land impacted (acres) 18 Roadway(s) impacted (miles) 0.09

## Scope of Study

Conduct a study to evaluate the area. 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 $150,000 Potential funding source(s) TBD

DRAFT