Reclassified FMXs

Action Number	Type	Action Name	Sponsor	County	Notes	TC Rec (Y/N)	TC Date	RFPG Rec (Y/N)	RFPG Date
101000195	FMP	Spicewood Springs Road Low Water Crossing #1 Project	Travis County	Travis	FMP reclassified as FME (remaining data gaps)	Y	12/1/2022		
101000196	FMP	Navidad River - Stem Branch Erosion Control Structure Project	Jackson County	Jackson	FMP reclassified as FME (revised scope - not buyout)	Y	12/1/2022		
101000197	FMP	La Salle Erosion Control Structure Project	Jackson County	Jackson	FMP reclassified as FME (revised scope - not buyout)	Y	12/1/2022		
101000198	FMP	Goat Trail Erosion Control Structure Project	Jackson County	Jackson	FMP reclassified as FME (revised scope - not buyout)	Y	12/1/2022		
101000199	FMP	County Road 106 Erosion Control Structure Project	Jackson County	Jackson	FMP reclassified as FME (revised scope - not buyout)	Y	12/1/2022		
101000200	FMP	Lake Travis/Cross Street Area Buyout Project	Jonestown	Travis	FMP reclassified as FME (Sponsor request larger area)	Y	12/1/2022		
101000201	FMP	Hays County Buyout Project	Hays County	Hays	FMP reclassified as FME (remaining data gaps)	Y	12/1/2022		
101000202	FMP	Dalton Lane Crossing Improvements Project	Austin	Travis	FMP reclassified as FME (remaining data gaps)	Y	12/1/2022		
101000203	FMP	Highland Hills Crossing Improvements Project	Travis County	Travis	FMP reclassified as FME (remaining data gaps)	Y	12/1/2022		
101000204	FMP	Shoal Creek - Nueces St Flood Risk Reduction Project	Austin	Travis	FMP reclassified as FME (remaining data gaps)	Y	12/1/2022		
101000205	FMP	Waller Creek - Guadalupe St Flood Risk Reduction Project	Austin	Travis	FMP reclassified as FME (remaining data gaps)	Y	12/1/2022		
101000206	FMP	Creek St at Barons Creek LWC Upgrade Project	Fredericksburg	Gillespie	FMP reclassified as FME (revised scope - Task 12 FME)	Y	12/1/2022		
101000207	FMP	Highway St Improvements Project	Fredericksburg	Gillespie	FMP reclassified as FME (remaining data gaps)	Y	12/1/2022		

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Spicewood Springs Road Low Water Crossing #1 Project | ID#: 101000195

Sponsor (name of entity): Travis (County) | Commitment: [x] Yes [ ] No

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

Study Type

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

[ ] Other

Problem Area

City: N/A | County: Travis

Watershed name(s): Bull Creek

Tributary(ies): Bull Creek

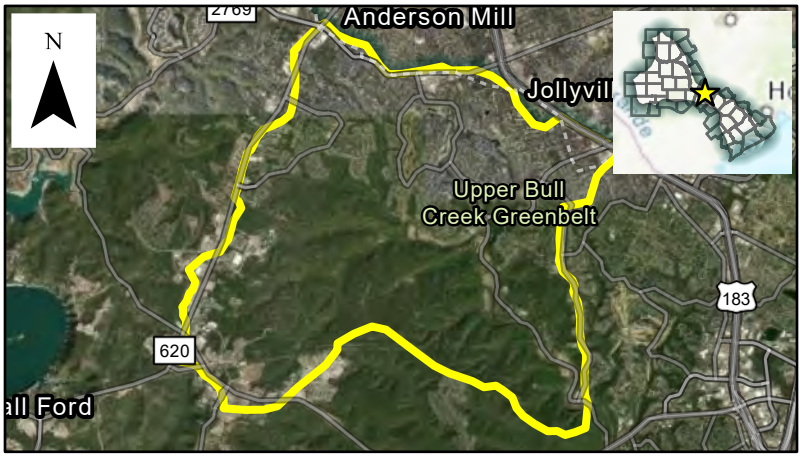
HUC#: 12090205,12070205 | Stream miles (est.): 0.10

Drainage area: square miles, est: 14.86 | or acreage, est.: 9,512

Social vulnerability index: 0.15

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

Other:



Flood Risk Description

The existing crossing consists of small pipe culverts and the roadway is overtopped in small, frequent, storm events (less than 5-yr). Road closures limit ingress/egress to several surrounding neighborhoods. The existing road is a 2-lane road with an average daily traffic count of 1,979.

Population at risk: 13 | Structures at risk: 10 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 283 | Roadway(s) impacted (miles): 1.64

Scope of Study

Conduct (or enhance existing study) to evaluate the replacement of the low water crossing with a 200 foot bridge. Study will update existing hydrologic and hydraulic models (with Atlas 14 rainfall) as needed to refine preliminary design and provide additional information needed to meet TWDB requirements for a flood mitigation project including verifying no adverse impacts, updating the cost estimate and providing a benefit-cost-analysis, and updating/verifying there are no potential constraints (environmental, utility conflicts, right-of-way needs, and constructability) that will prevent implementation.

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: $682,500 | Potential funding source(s): TBD

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Navidad River - Stem Branch Erosion Control Structure Project | ID#: 101000196

Sponsor (name of entity): Jackson (County) | Commitment: [x] Yes [ ] No

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

Study Type

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

[ ] Other

Problem Area

City: N/A | County: Jackson

Watershed name(s): Navidad

Tributary(ies): Stem Branch

HUC#: 12100102 | Stream miles (est.): 0.00

Drainage area: square miles, est: 0.02 | or acreage, est.: 15

Social vulnerability index: 0.51

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

Other:

Flood Risk Description

There is an existing erosion control structure that is failing. Loss of the structure would result in a threat to existing infrastructure and negative environmental impacts due to erosion. Existing risk factors are based on available data and will be better defined as part of the study. Study results will include detailed assessments of the potential risk and potential flood risk reduction to be used in evaluating the project.

Population at risk: 2 | Structures at risk: 1 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 0 | Roadway(s) impacted (miles): 0.00

Scope of Study

Conduct a study to evaluate replacing/repairing an existing erosion control structure. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis (if appropriate), verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis (if appropriate), 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.

Estimated Study Cost

Cost: $40,000 | Potential funding source(s): TBD

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: La Salle Erosion Control Structure Project | ID#: 101000197

Sponsor (name of entity): Jackson (County) | Commitment: [x] Yes [ ] No

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

Study Type

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

[ ] Other

Problem Area

City: N/A | County: Jackson

Watershed name(s): Arenosa Creek-Garcitas Creek

Tributary(ies): Unnamed Tributary

HUC#: 12100402 | Stream miles (est.): 0.00

Drainage area: square miles, est: 0.44 | or acreage, est.: 279

Social vulnerability index: 0.51

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

Other:

Flood Risk Description

There is an existing erosion control structure that is failing. Loss of the structure would result in a threat to existing infrastructure and negative environmental impacts due to erosion. Existing risk factors are based on available data and will be better defined as part of the study. Study results will include detailed assessments of the potential risk and potential flood risk reduction to be used in evaluating the project.

Population at risk: 2 | Structures at risk: 2 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 28 | Roadway(s) impacted (miles): 0.09

Scope of Study

Conduct a study to evaluate replacing/repairing an existing erosion control structure. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis (if appropriate), verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis (if appropriate), 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.

Estimated Study Cost

Cost: $40,000 | Potential funding source(s): TBD

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Goat Trail Erosion Control Structure Project | ID#: 101000198

Sponsor (name of entity): Jackson (County) | Commitment: [x] Yes [ ] No

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

Study Type

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

[ ] Other

Problem Area

City: N/A | County: Jackson

Watershed name(s): Lavaca

Tributary(ies): Milby

HUC#: 12100101 | Stream miles (est.): 0.00

Drainage area: square miles, est: 0.03 | or acreage, est.: 19

Social vulnerability index: 0.51

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

Other:

Flood Risk Description

There is an existing erosion control structure that is failing. Loss of the structure would result in a threat to existing infrastructure and negative environmental impacts due to erosion. Existing risk factors are based on available data and will be better defined as part of the study. Study results will include detailed assessments of the potential risk and potential flood risk reduction to be used in evaluating the project.

Population at risk: 2 | Structures at risk: 1 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 1 | Roadway(s) impacted (miles): 0.00

Scope of Study

Conduct a study to evaluate replacing/repairing an existing erosion control structure. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis (if appropriate), verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis (if appropriate), 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.

Estimated Study Cost

Cost: $225,000 | Potential funding source(s): TBD

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: County Road 106 Erosion Control Structure Project | ID#: 101000199

Sponsor (name of entity): Jackson (County) | Commitment: [x] Yes [ ] No

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

Study Type

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

[ ] Other

Problem Area

City: N/A | County: Jackson

Watershed name(s): Leona Creek-Arenosa Creek

Tributary(ies): Arenosa Creek

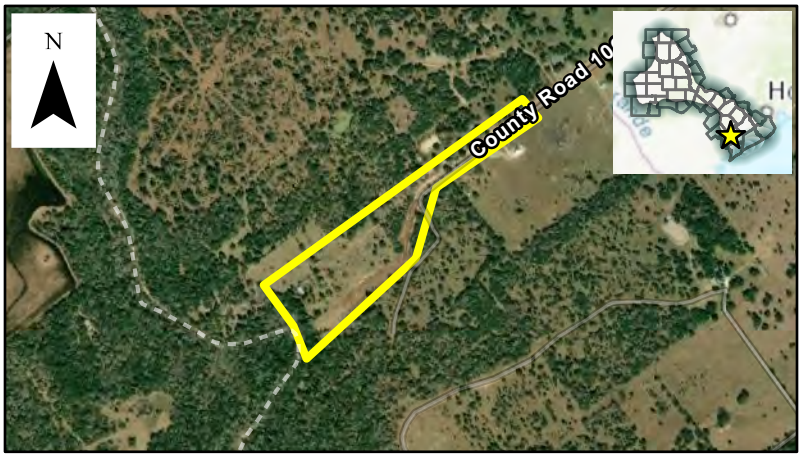
HUC#: 12100402 | Stream miles (est.): 0.00

Drainage area: square miles, est: 0.06 | or acreage, est.: 40

Social vulnerability index: 0.51

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

Other:



Flood Risk Description

There is an existing erosion control structure that is failing. Loss of the structure would result in a threat to existing infrastructure and negative environmental impacts due to erosion. Existing risk factors are based on available data and will be better defined as part of the study. Study results will include detailed assessments of the potential risk and potential flood risk reduction to be used in evaluating the project.

Population at risk: 2 | Structures at risk: 1 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 35 | Roadway(s) impacted (miles): 0.20

Scope of Study

Conduct a study to evaluate replacing/repairing an existing erosion control structure. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis (if appropriate), verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis (if appropriate), 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.

Estimated Study Cost

Cost: $75,000 | Potential funding source(s): TBD

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Lake Travis/Cross Street Area Buyout Project | ID#: 101000200

Sponsor (name of entity): Jonestown (Municipality) | Commitment: [x] Yes [ ] No

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

Study Type

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

[ ] Other

Problem Area

City: Jonestown | County: Travis

Watershed name(s): Hurst Creek

Tributary(ies): Big Sandy Creek

HUC#: 12090205 | Stream miles (est.): 0.00

Drainage area: square miles, est: 0.04 | or acreage, est.: 26

Social vulnerability index: 0.15

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

Other:

Flood Risk Description

There is at least one flood prone property located within the 100-year floodplain of Lake Travis in the Cross Street Area that is subject to repetitive loss. The City would like to conduct an analysis to quantify the total number of structures in the 100-year floodplain that may be subject to repetitive loss.

Population at risk: 27 | Structures at risk: 18 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 13 | Roadway(s) impacted (miles): 0.42

Scope of Study

The study will include hydrologic and hydraulic modeling (with Atlas 14) to identify/verify eligible property owners and if the properties should be elevated or removed.

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. 5.2 Increase the acreage of publicly protected open space to reduce future impacts of flooding.

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: Hays County Buyout Project | ID#: 101000201

Sponsor (name of entity): Hays (County) | Commitment: [x] Yes [ ] No

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

Study Type

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

[ ] Other

Problem Area

City: N/A | County: Hays

Watershed name(s): Onion

Tributary(ies): Unknown

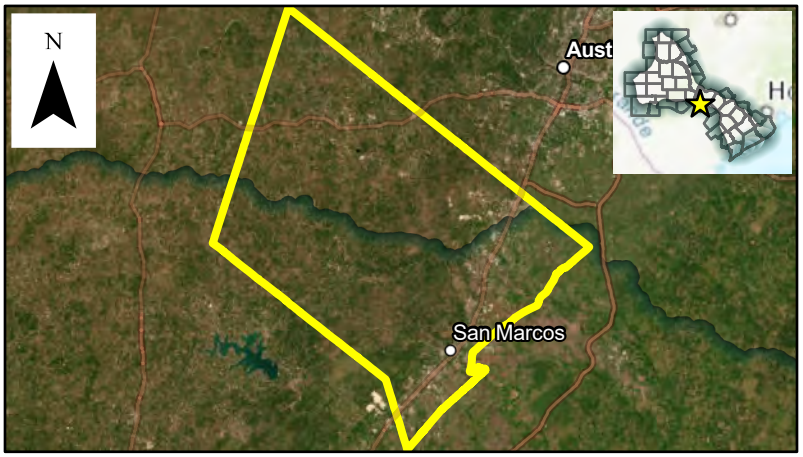
HUC#: 12090205,12090206 | Stream miles (est.): 0.00

Drainage area: square miles, est: 676.04 | or acreage, est.: 432,665

Social vulnerability index: 0.17

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

Other:



Flood Risk Description

There are at least 38 flood prone properties that are within the 100-year floodplain that may be subject to repetitive loss.

Population at risk: 100 | Structures at risk: 38 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 11,875 | Roadway(s) impacted (miles): 15.61

Scope of Study

The study will include hydrologic and hydraulic modeling (with Atlas 14) to identify/verify eligible property owners and if the properties should be elevated or removed.

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. 5.2 Increase the acreage of publicly protected open space to reduce future impacts of flooding.

Estimated Study Cost

Cost: $500,000 | Potential funding source(s): TBD

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Dalton Lane Crossing Improvements Project | ID#: 101000202

Sponsor (name of entity): Austin (Municipality) | Commitment: [x] Yes [ ] No

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

Study Type

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

[ ] Other

Problem Area

City: Austin | County: Travis

Watershed name(s): Carson Creek

Tributary(ies): Carson Creek and Tributary 4

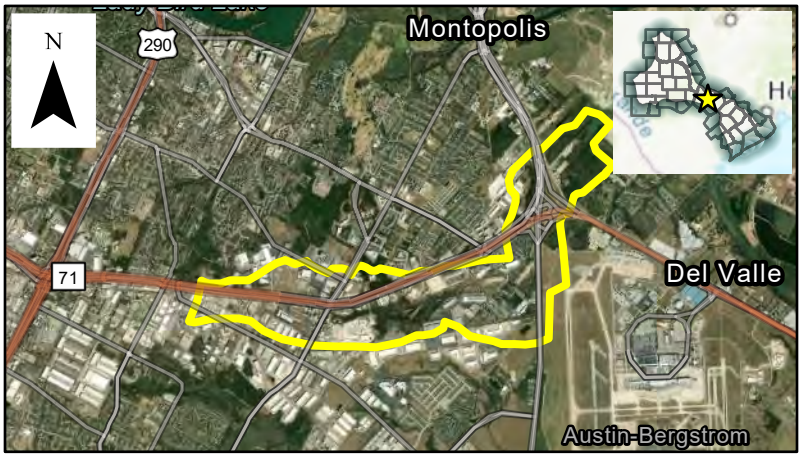
HUC#: 12090205 | Stream miles (est.): 0.50

Drainage area: square miles, est: 2.29 | or acreage, est.: 1,468

Social vulnerability index: 0.15

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

Other:



Flood Risk Description

The Carson Creek and Tributary 4 crossings at Dalton Lane near Hawkins Lane and Sherman Road are inundated by small, frequent storm events (less than 2-year event) leading to unsafe conditions for motorists. Existing risk factors are based on available data and will be better defined as part of the study. Study results will include detailed assessments of the potential risk and potential flood risk reduction to be used in evaluating the project.

Population at risk: 48 | Structures at risk: 31 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 73 | Roadway(s) impacted (miles): 3.13

Scope of Study

Update existing study to evaluate the replacement of two low water crossings with two 3-span 150-foot long bridges, channel improvements upstream and downstream, and associated land acquisition to improve public safety and reduce road closures during small, frequent storm events. Study will update existing hydrologic and hydraulic models (with Atlas 14 rainfall) as needed to refine preliminary design and provide additional information including verifying no adverse impacts, updating the cost estimate, providing a benefit-cost-analysis, and verifying there are no potential constraints (environmental, utility conflicts, right-of-way needs, and constructability) that will prevent implementation. Preliminary flood risk reduction benefits identified include satisfying roadway compliance with City of Austin drainage criteria, reduction in Atlas 14 100-yr flood depths by up to 1-foot, reduction in inundated area by up to 8 acres upstream of the roadway, and removal of two structures from Atlas 14 100-yr flood through acquisition.

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: $1,950,000 | Potential funding source(s): TBD

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Highland Hills Crossing Improvements Project | ID#: 101000203

Sponsor (name of entity): Travis (County) | Commitment: [x] Yes [ ] No

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

Study Type

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

[ ] Other

Problem Area

City: N/A | County: Travis

Watershed name(s): Lake Austin

Tributary(ies): Dry Creek

HUC#: 12090205 | Stream miles (est.): 0.25

Drainage area: square miles, est: 0.47 | or acreage, est.: 299

Social vulnerability index: 0.47

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

Other:

Flood Risk Description

The Highland Hills crossing is inundated by small, frequent, storm events (less than 2-year event) leading to unsafe conditions for motorists who need to use this roadway for neighborhood ingress/egress. Existing risk factors are based on available data and will be better defined as part of the study. Study results will include detailed assessments of the potential risk and potential flood risk reduction to be used in evaluating the project.

Population at risk: 8 | Structures at risk: 3 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 1 | Roadway(s) impacted (miles): 0.02

Scope of Study

Update existing study to evaluate upgrading the hydraulic capacity of the crossing to reduce the frequency and depth of inundation and improve public safety. Study will update existing hydrologic and hydraulic models (with Atlas 14 rainfall) as needed to refine preliminary design and provide additional information needed to meet TWDB requirements for a flood mitigation project including verifying no adverse impacts, updating the cost estimate and providing a benefit-cost-analysis, and updating/verifying there are no potential constraints (environmental, utility conflicts, right-of-way needs, and constructability) that will prevent implementation.

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: $150,000 | Potential funding source(s): TBD

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Shoal Creek - Nueces St Flood Risk Reduction Project | ID#: 101000204

Sponsor (name of entity): Austin (Municipality) | Commitment: [x] Yes [ ] No

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

Study Type

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

[ ] Other

Problem Area

City: Austin | County: Travis

Watershed name(s): Town Lake

Tributary(ies): Shoal Creek

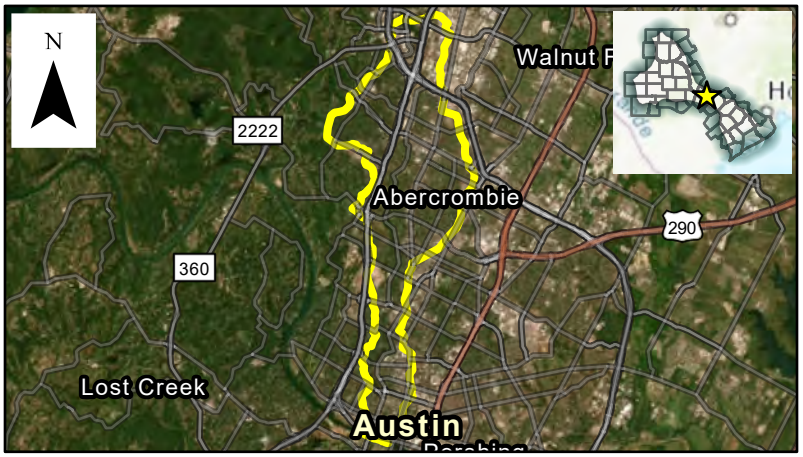
HUC#: 12090205 | Stream miles (est.): 0.00

Drainage area: square miles, est: 13.22 | or acreage, est.: 8,460

Social vulnerability index: 0.15

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

Other:



Flood Risk Description

Shoal Creek has a history of flooding including the 1981 Memorial Day Flood that killed 13 people. More recently, the 2015 Memorial Day flood resulted in widespread flooding that impacted commercial and residential structures, and local street flooding. Residents have formally requested service from the City to address 25 locations of reported house flooding, 11 locations of reported yard flooding, and 11 locations of reported street flooding. Existing risk factors are based on available data and will be better defined as part of the study. Study results will include detailed assessments of the potential risk and potential flood risk reduction to be used in evaluating the project.

Population at risk: 20,710 | Structures at risk: 61 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 52 | Roadway(s) impacted (miles): 13.96

Scope of Study

Update existing study to evaluate the construction of approximately 16,000 feet of upgraded storm drain pipe and numerous new storm drain inlets throughout the area, including a large tunnel which will extend along Nueces St from Martin Luther King Jr St to 4th St. The existing study includes hydrologic and hydraulic models (with Atlas 14 rainfall), verifying no adverse impacts, preparation of cost estimate and verifying there are no potential constraints (environmental, utility conflicts, right-of-way needs, and constructability) that will prevent implementation. The study will be updated to include the required benefit-cost-analysis.

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.

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: Waller Creek - Guadalupe St Flood Risk Reduction Project | ID#: 101000205

Sponsor (name of entity): Austin (Municipality) | Commitment: [x] Yes [ ] No

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

Study Type

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

[ ] Other

Problem Area

City: N/A | County: Travis

Watershed name(s): Town Lake

Tributary(ies): Waller Creek

HUC#: 12090205 | Stream miles (est.): 0.00

Drainage area: square miles, est: 2.71 | or acreage, est.: 1,733

Social vulnerability index: 0.15

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

Other:

Flood Risk Description

When the area of interest was developed, it appears an existing creek was covered/diverted to a small storm drain. The area has been identified as high priority due to street, yard, and structural flooding including the 2015 Memorial Day and 2015 Halloween floods. The City has logged flooding complaints for 30 residences and 14 streets in the Hyde Park neighborhood. Analysis of the project drainage area indicates there are a significant number of structures that experience flooding that have not reported flood complaints. Existing risk factors are based on available data and will be better defined as part of the study. Study results will include detailed assessments of the potential risk and potential flood risk reduction to be used in evaluating the project.

Population at risk: 1,520 | Structures at risk: 207 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 0 | Roadway(s) impacted (miles): 2.58

Scope of Study

Update existing study to evaluate the construction of approximately 28,000 linear feet of subsurface stormwater drains east of Guadalupe Street and west of Avenue G, between 33rd and 46th streets. The project also includes three new surface-level detention ponds near the Baker Center and in Adams-Hemphill Park with green stormwater infrastructure for water quality treatment; stream restoration using natural channel design for Waller Creek downstream of detention pond; underground stormwater detention structures around the former Baker Center; improvements to the outfall structures at Central Park Pond and Triangle Pond just west of Guadalupe Street; and related utility relocations throughout. The existing study includes hydrologic and hydraulic models (with Atlas 14 rainfall), verifying no adverse impacts, preparation of cost estimate and verifying there are no potential constraints (environmental, utility conflicts, right-of-way needs, and constructability) that will prevent implementation. The study will be updated to include the required benefit-cost-analysis.

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.

Estimated Study Cost

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

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Creek St at Barons Creek LWC Upgrade Project | ID#: 101000206

Sponsor (name of entity): Fredericksburg (Municipality) | Commitment: [x] Yes [ ] No

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

Study Type

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

[ ] Other

Problem Area

City: Fredericksburg | County: Gillespie

Watershed name(s): Barons Creek

Tributary(ies): Barons Creek

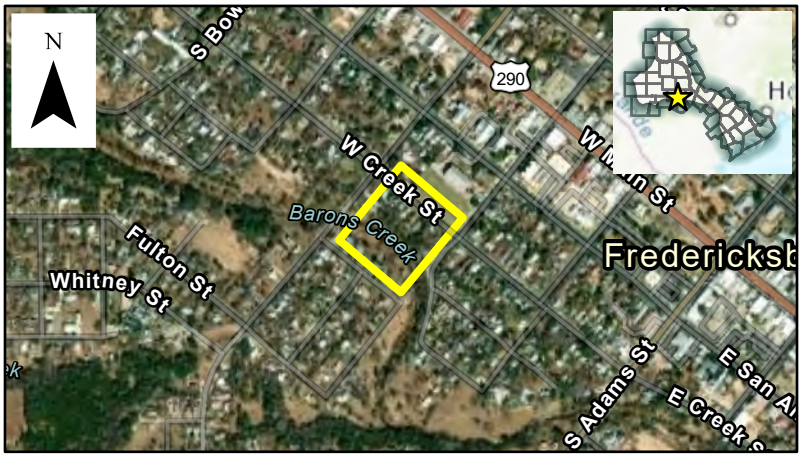
HUC#: 12090206 | Stream miles (est.): 0.00

Drainage area: square miles, est: 0.01 | or acreage, est.: 8

Social vulnerability index: 0.1

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

Other:



Flood Risk Description

Creek Street overtops by approximately 11 feet during the 100-year event leading to unsafe conditions for motorists and potential local flood risk.

Population at risk: 5 | Structures at risk: 4 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 0 | Roadway(s) impacted (miles): 0.10

Scope of Study

Conduct a study to evaluate replacing/upgrading the existing crossing repairing an existing road 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: $50,000 | Potential funding source(s): TBD

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Highway St Improvements Project | ID#: 101000207

Sponsor (name of entity): Fredericksburg (Municipality) | Commitment: [x] Yes [ ] No

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

Study Type

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

[ ] Other

Problem Area

City: Fredericksburg | County: Gillespie

Watershed name(s): Muesebach Creek - Pedernales Rivet

Tributary(ies): Unnamed Tributary

HUC#: 12090206 | Stream miles (est.): 0.00

Drainage area: square miles, est: 0.08 | or acreage, est.: 54

Social vulnerability index: 0.1

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

Other:

Flood Risk Description

The existing crossing is undersized and overtops. The existing road is a 2-lane road with an average daily traffic count of 9,535.

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

Farm/Ranch land impacted (acres): 0 | Roadway(s) impacted (miles): 0.53

Scope of Study

Conduct a study to evaluate replacing/upgrading the existing crossing repairing an existing road 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: $600,000 | Potential funding source(s): TBD