

Flood Management Strategy (FMS)

Title Flood Awareness and Preparation Education and Outreach

ID# TBD

REGION 10

Technical committee recommend Yes No RFPG recommend Yes No

Strategy Type (Descriptive title of FMS)

- Flood mitigation education & outreach
- Area-wide low water crossing flood mitigation studies and projects
- Identify and fund buy-out programs
- Develop regional flood warning measures
- Strengthen flood management regulations
- Other

Problem Area

- Sub-regional
- Regional
- Counties
- City

Insert location map here

Need for Strategy

An essential element of any comprehensive approach to flood risk reduction is to increase public awareness of flood risk and educate the public as to measures that can be taken individually to reduce risk to themselves and others. The goal is prevention, particularly in terms public safety. Because flooding is episodic, public awareness often wanes over time as memories of previous events fade. It is therefore important that there be ongoing efforts to communicate regularly with the public about flood risk, personal behavior to minimize personal risk, and about preparedness measures that can be taken in advance of flood events. This can include the use of broadcast and other media (paid and free), school education programs, ready access to information sources during flood events, and other approaches. One example is "Turn Around Don't Drown" messaging.

Description of Strategy

This strategy consists of two parts. First would be ongoing TWDB grant funding of the Lower Colorado-Lavaca RFPG to continue its public outreach and engagement efforts during the interim between planning cycles. It is important that momentum gained through the first planning cycle be maintained and increased in advance of the second planning cycle. This would include periodic e-mail news blasts, additional public meetings to present the Initial RFP, and continuing outreach to key stakeholders. The second component would be TWDB-funded and sponsored media campaign on flood risk awareness and prepared (think Don't Mess with Texas), development of educational materials for distribution by local entities, and public school education curricula and materials (think Major Rivers).

Related Goals (List goal ID number and goal statement per RFPG adopted goals)

1.1 - Increase the number of public outreach and educational communications and activities conducted by the RFPG to improve awareness of flood hazards and benefits of flood planning in the flood planning region.

Estimated Cost and Time to Implement Recommended Strategy (Note: Cost not required for FMS)

Cost TBD Potential funding source(s) TWDB and/or TXDPS-DEM grants

Sponsoring Entity

Sponsor (name of entity) Lower Colorado-Lavaca RFPG, TWDB, TXDPS-DEM

Commitment Yes No

Flood Management Strategy (FMS)

Title

ID#

REGION 10

Technical committee recommend Yes No RFPG recommend Yes No

Strategy Type (Descriptive title of FMS)

Flood mitigation education & outreach

Area-wide low water crossing flood mitigation studies and projects

Identify and fund buy-out programs

Develop regional flood warning measures

Strengthen flood management regulations

Other

Problem Area

Sub-regional

Regional

Counties

City

Insert location map here

Need for Strategy

Flood risk reduction begins with prevention—preventing new problems from developing and preventing existing problems from becoming worse. One key to prevention is effective regulation of development and re-development in and near floodplains. Overall, the LC-LV Region is in an enviable position in terms of floodplain management and regulation, with only eight (8) of 135 eligible entities in the region not currently participating in the National Flood Insurance Program (NFIP). Keyed to goals adopted by the RFPG (see below) there is a need to assist these communities in becoming NFIP participants and there is a need to also assist cities and counties with the adoption and implementation of enhanced floodplain, land development, and land use regulations.

Description of Strategy

This proposed regional flood management strategy will consist of education, outreach and technical assistance directed to cities and counties throughout the flood planning region. Priorities are: 1) provide assistance to cities that are eligible but not currently participating in the NFIP; and 2) provide assistance to other cities with the identification, evaluation, adoption, and implementation of enhanced floodplain, land development, and land use regulations. This will include consultation regarding FEMA requirements, drafting of ordinances and regulations required for NFIP participation or for adoption of enhanced standards and measures. Implementation of this strategy by the RFPG will require TWDB grant funding early in the second flood planning cycle. Delivery of services will be via contract with the Region 10 Technical Consultants.

Related Goals (List goal ID number and goal statement per RFPG adopted goals)

4.1 - Increase # of cities/counties that are participating in NFIP

4.2 - Increase # of cities/counties that have adopted higher standards

4.3 - Increase# of cities/counties with regulations addressing localized flooding

4.4 - Increase# of cities/counties with regulatory incentives for nature-based solutions

4.5 - Increase # of cities/counties that consider 1% annual chance flood in land use pl.

Estimated Cost and Time to Implement Recommended Strategy (Note: Cost not required for FMS)

Cost

Potential funding source(s)

Sponsoring Entity

Sponsor (name of entity)

Commitment Yes No

Flood Management Strategy (FMS)

Title TXDOY Off-System Program for Low Water Crossing Assessment, Prioritization, and Mitigation

ID#

REGION 10

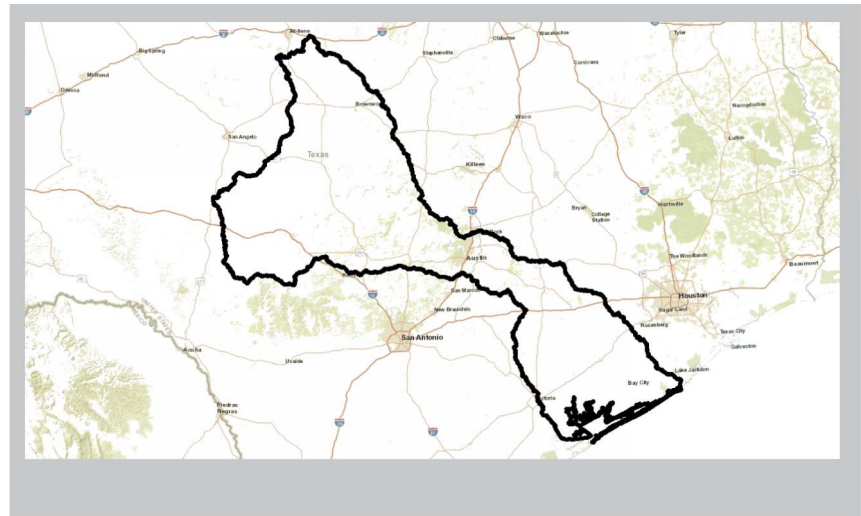
Technical committee recommend Yes No RFPG recommend Yes No

Strategy Type (Descriptive title of FMS)

- Flood mitigation education & outreach
- Area-wide low water crossing flood mitigation studies and projects
- Identify and fund buy-out programs
- Develop regional flood warning measures
- Strengthen flood management regulations
- Other

Problem Area

- Sub-regional
- Regional Insert Region 10 map
- Counties
- City



Need for Strategy

There are an estimated xxxx low-water roadway crossings (LWC) within the Lower Colorado-Lavaca Flood Planning Region. Many of these crossings experience frequent flooding but may have relatively minor flood risk, in terms of public safety and/or the integrity of the roadway. Others, however, are at high-risk and experience flood depths and velocities that do pose a significant risk. While there are some historical records of fatalities at some LWCs, much of the available information is anecdotal and the risk has not been fully assessed. Furthermore, the cost to mitigate flood risk at high-risk LWC with structural solutions (e.g., bridges) is typically very high, often prohibitive. It is therefore important the LWC flood risk be systematically and fully evaluated in order to prioritize those LWCs in need of mitigation, either structural or non-structural (e.g., closures).

Description of Strategy

Some of the more urbanized areas (e.g., Travis County and the City of Austin) in Region 10 have relatively good information as to flood risk of LWCs within their jurisdictions. Many other areas have little or no information other than the location, physical observations during floods, and historical and/or anecdotal information. It is recommended that with TXDOT funding assistance through the Highway Bridge Program or other assistance programs provide grant funding to counties/cities to conduct flood risk assessments of LWCs. Grants would cover xx% of the costs of assessments, which would assess flood risk and exposure (e.g., public safety and roadway integrity), prioritize according to such, and evaluate potential mitigation options. TWDB cost-sharing assistance would also be provided competitively for structural and/or non-structural mitigation of flood risk.

Related Goals (List goal ID number and goal statement per RFPG adopted goals)

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

Estimated Cost and Time to Implement Recommended Strategy (Note: Cost not required for FMS)

Cost TBD Potential funding source(s) Federal funding through the Federal Highway Administration, TXDOT, and/or other sources

Sponsoring Entity

Sponsor (name of entity) TBD (e.g., TXDOT, TWDB) Commitment Yes No

Flood Mitigation Project (FMP)

Title Arroyo Doble/Twin Creeks Drainage Phases 3-7

ID# 103000025

REGION 10

Technical committee recommend Yes No RFPG recommend Yes No

Project Type (Descriptive title of FMP)

Subdivision Drainage Improvements

City N/A
County Travis County

Problem Area

Watershed name Onion Creek

HUC# (if known) 120902050407

Tributary(ies) N/A

Stream miles (est.) N/A

Drainage area: square miles, est. or acreage, est. 400

Other Arroyo Doble, Arroyo Doble Estates, Twin Creek Park Subdivisions, and the Wirth and Polk Road areas Adjacent to FM 1626.



Problem Description (Describe risk factors and other problem attributes – frequency, exposure, vulnerability, history, recurring losses, property, population, etc.)

Subdivisions generally lack defined drainage systems. Roadside ditches and culvert crossings are systematically undersized or not provided. Lack of existing drainage infrastructure, extremely flat terrain, long history of flooding in the area with wide spread flood damage occurring as recently as the October 31, 2015 flood event where it was reported that 336 properties were impacted, with 161 of them experiencing major flood damage

Scope of Project (list below)

STRUCTURAL

- Detention
- Channel modification
- Bridge/culvert
- Storm drain
- Levee/floodwall
- Other

NON-STRUCTURAL

- Property buyouts
- Floodproofing
- Flood readiness/resilience
- Flood warning system/gauges
- Other

DESCRIPTION OF PROJECT

XX,XXX LF of new channels or channel enlargement, X,XXX LF of new storm drain system, X new roadway culverts, new drainage easements

New and upsized roadside channels and culvert upgrades. Easement acquisitions, utility relocations, and contingency.

Related Goals (List goal ID number and goal statement per RFPG adopted goals)

6.1 - Reduce the number of structures and critical facilities that are at high risk

6.2 - Increase the number of entities that mitigate flood risk at vulnerable locations

Estimated Cost

Cost \$5,626,000 (Year 2019) Ongoing O&M Costs -

Potential funding source(s) Future Bond Program, Grants, or Loans

Sponsoring Entity

Sponsor (name of entity) Travis County

Commitment Yes No

Flood Management Evaluation (FME)

STUDY

Title

ID#

REGION 10

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

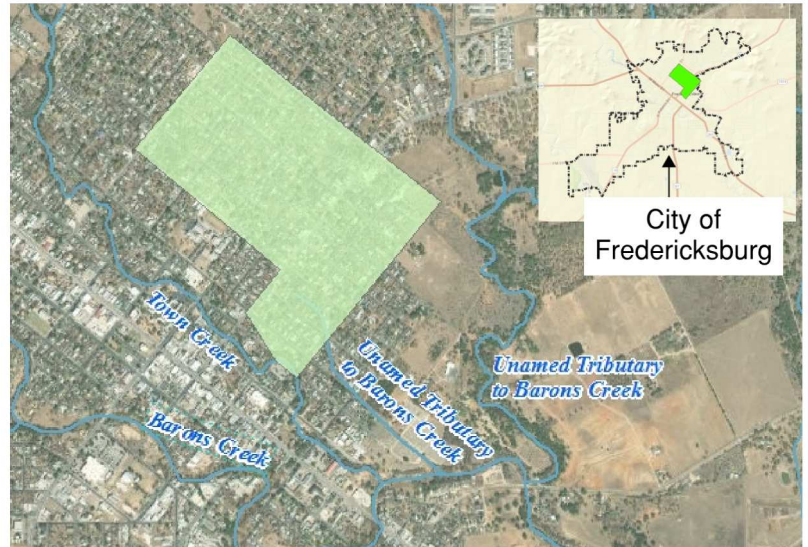
HUC# (if known)

Tributary(ies)

Stream miles (est.)

Drainage area: Square miles, est. or acreage, est.

Other



Flood Risk Description (narrative on frequency, exposure, vulnerability, history, recurring losses, property, population, etc.)

Lack of storm drain in area, streets used for conveyance, excessive flow depth and velocities, level of service less than 2-yr storm, structures at risk, historical flood damages, channel erosion.

Population at risk Structures at risk Critical facilities at risk

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Scope of Study (Describe key tasks)

Update H&H Analysis with Atlas 14 Rainfall	Develop benefit-cost ratio
Update proposed storm drain design	Environmental permitting and constraints evaluation
Update flood risk reduction benefits	ROW, utility conflicts, constructability constraints evaluation
Update cost	negative impacts analysis

Related Goal(s) (List goal ID number and goal statement per RFPG adopted goals)

6.1 - Reduce the number of structures and critical facilities that are at h+

Estimated Cost

Cost Potential funding source(s)

Sponsoring Entity

Sponsor (name of entity) Commitment Yes No

Flood Management Evaluation (FME)

STUDY

Title

ID#

REGION 10

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

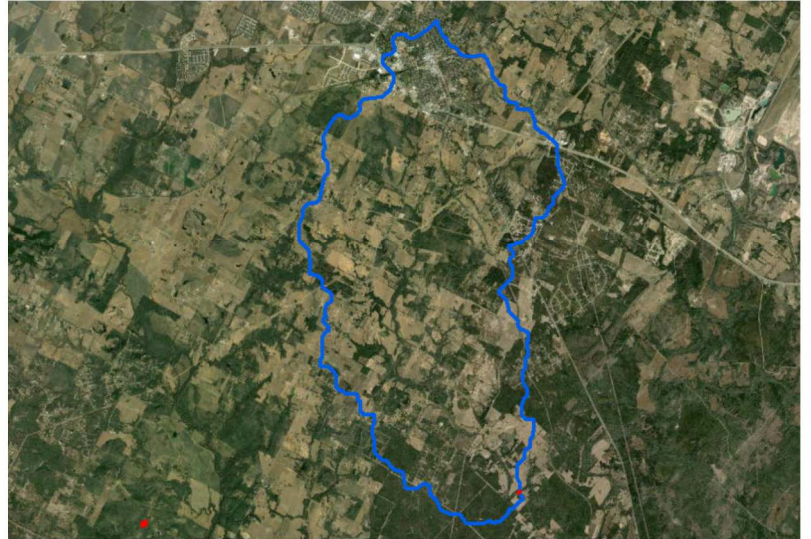
HUC# (if known)

Tributary(ies)

Stream miles (est.)

Drainage area: Square miles, est or acreage, est

Other



Flood Risk Description (narrative on frequency, exposure, vulnerability, history, recurring losses, property, population, etc.)

Preliminary Engineering Study to evaluate upgrading the existing low water crossing including preliminary design, level of service analysis, and negative impact analysis.

Population at risk Structures at risk Critical facilities at risk

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Scope of Study (Describe key tasks)

Hydrologic and Hydraulic Analysis (including Atlas 14)	Constraints analysis (Environmental, Utility, ROW, Constructibility)
Proposed improvements design (preliminary)	Negative Impact Analysis
Risk reduction analysis	
Cost estimate and Benefit-Cost-Analysis	

Related Goal(s) (List goal ID number and goal statement per RFPG adopted goals)

6.2 Increase the number of entities that mitigate flood risk at vulnerable+

Estimated Cost

Cost Potential funding source(s)

Sponsoring Entity

Sponsor (name of entity) Commitment Yes No

Flood Management Evaluation (FME)

STUDY

Title

ID#

REGION 10

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

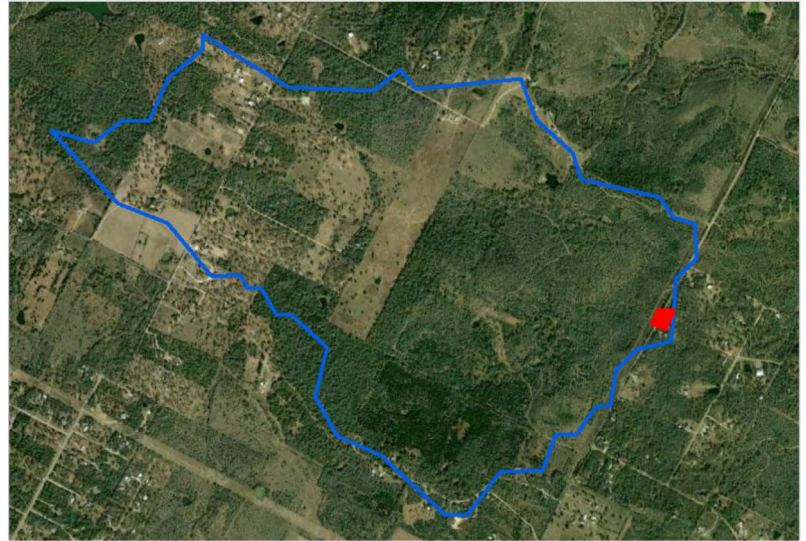
HUC# (if known)

Tributary(ies)

Stream miles (est.)

Drainage area: Square miles, est or acreage, est

Other



Flood Risk Description (narrative on frequency, exposure, vulnerability, history, recurring losses, property, population, etc.)

Preliminary Engineering Study to evaluate upgrading the existing low water crossing including preliminary design, level of service analysis, and negative impact analysis.

Population at risk Structures at risk Critical facilities at risk

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Scope of Study (Describe key tasks)

Hydrologic and Hydraulic Analysis (including Atlas 14)

Proposed improvements design (preliminary)

Risk reduction analysis

Cost estimate and Benefit-Cost-Analysis

Related Goal(s) (List goal ID number and goal statement per RFPG adopted goals)

6.2 Increase the number of entities that mitigate flood risk at vulnerable+

Estimated Cost

Cost Potential funding source(s)

Sponsoring Entity

Sponsor (name of entity) Commitment Yes No

Flood Management Evaluation (FME)

STUDY

Title

ID#

REGION 10

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

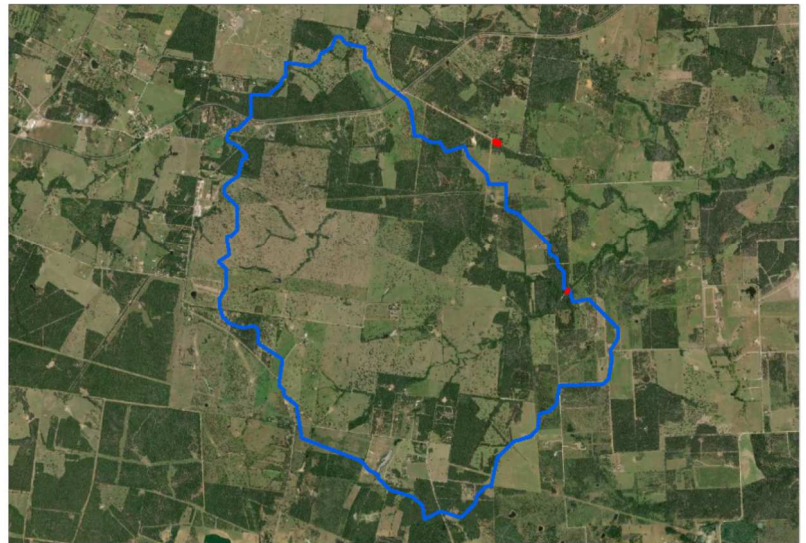
HUC# (if known)

Tributary(ies)

Stream miles (est.)

Drainage area: Square miles, est or acreage, est

Other



Flood Risk Description (narrative on frequency, exposure, vulnerability, history, recurring losses, property, population, etc.)

Preliminary Engineering Study to evaluate upgrading the existing low water crossing including preliminary design, level of service analysis, and negative impact analysis.

Population at risk Structures at risk Critical facilities at risk

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Scope of Study (Describe key tasks)

Hydrologic and Hydraulic Analysis (including Atlas 14)

Proposed improvements design (preliminary)

Risk reduction analysis

Cost estimate and Benefit-Cost-Analysis

Related Goal(s) (List goal ID number and goal statement per RFPG adopted goals)

6.2 Increase the number of entities that mitigate flood risk at vulnerable+

Estimated Cost

Cost Potential funding source(s)

Sponsoring Entity

Sponsor (name of entity) Commitment Yes No

Flood Management Evaluation (FME)

STUDY

Title Bastrop County Project 4

ID# 101000021

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 Mustang Ridge

County Bastrop County

Watershed Lower Colorado - Cummins

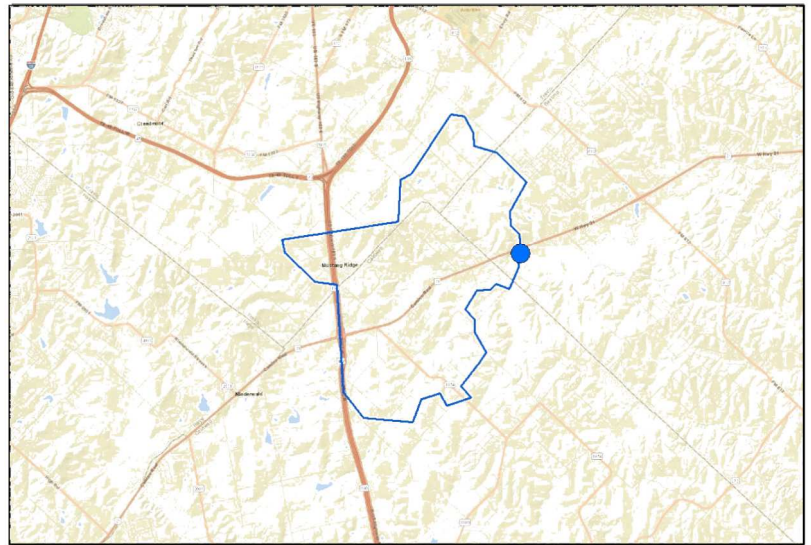
HUC# (if known) 12090301

Tributary(ies) Cedar Creek

Stream miles (est.) 0.50

Drainage area: Square miles, est 20.10 or acreage, est 470.5

Other N/A



Flood Risk Description (narrative on frequency, exposure, vulnerability, history, recurring losses, property, population, etc.)

Preliminary Engineering Study to evaluate upgrading the existing low water crossing including preliminary design, level of service analysis, and negative impact analysis.

Population at risk N/A Structures at risk N/A Critical facilities at risk N/A

Farm/Ranch land impacted (acres) N/A Roadway(s) impacted (length) 0.02 miles

Scope of Study (Describe key tasks)

Hydrologic and Hydraulic Analysis (including Atlas 14) Constraints analysis (Environmental, Utility, ROW, Constructibility)

Proposed improvements design (preliminary) Negative Impact Analysis

Risk reduction analysis

Cost estimate and Benefit-Cost-Analysis

Related Goal(s) (List goal ID number and goal statement per RFPG adopted goals)

6.2 Increase the number of entities that mitigate flood risk at vulnerable+

Estimated Cost

Cost \$10,000 to \$100,000 Potential funding source(s) Unknown

Sponsoring Entity

Sponsor (name of entity) Bastrop County Commitment Yes No

Flood Management Evaluation (FME)

STUDY

Title Bastrop County Project 9

ID# 101000017

REGION 10

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 Paige

County Bastrop County

Watershed Lower Colorado - Cummins

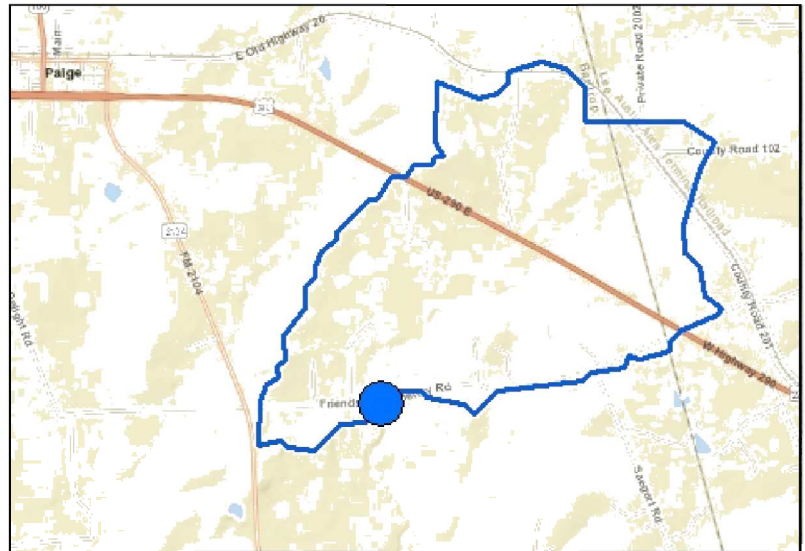
HUC# (if known) 12090301

Tributary(ies) Unnamed Tributary

Stream miles (est.) 2.70 miles

Drainage area: Square miles, est 2.55 or acreage, est 1632.8

Other N/A



Flood Risk Description (narrative on frequency, exposure, vulnerability, history, recurring losses, property, population, etc.)

Preliminary Engineering Study to evaluate upgrading the existing low water crossing including preliminary design, level of service analysis, and negative impact analysis.

Population at risk N/A Structures at risk N/A Critical facilities at risk N/A

Farm/Ranch land impacted (acres) N/A Roadway(s) impacted (length) 0.03 miles

Scope of Study (Describe key tasks)

Hydrologic and Hydraulic Analysis (including Atlas 14) Constraints analysis (Environmental, Utility, ROW, Constructibility)

Proposed improvements design (preliminary) Negative Impact Analysis

Risk reduction analysis

Cost estimate and Benefit-Cost-Analysis

Related Goal(s) (List goal ID number and goal statement per RFPG adopted goals)

6.2 Increase the number of entities that mitigate flood risk at vulnerable+

Estimated Cost

Cost \$10,000 to \$100,000 Potential funding source(s) Unknown

Sponsoring Entity

Sponsor (name of entity) Bastrop County Commitment Yes No

Flood Management Evaluation (FME)

STUDY

Title Bastrop County Project 10

ID# 101000016

REGION 10

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 Smithville

County Bastrop County

Watershed Lower Colorado - Cummins

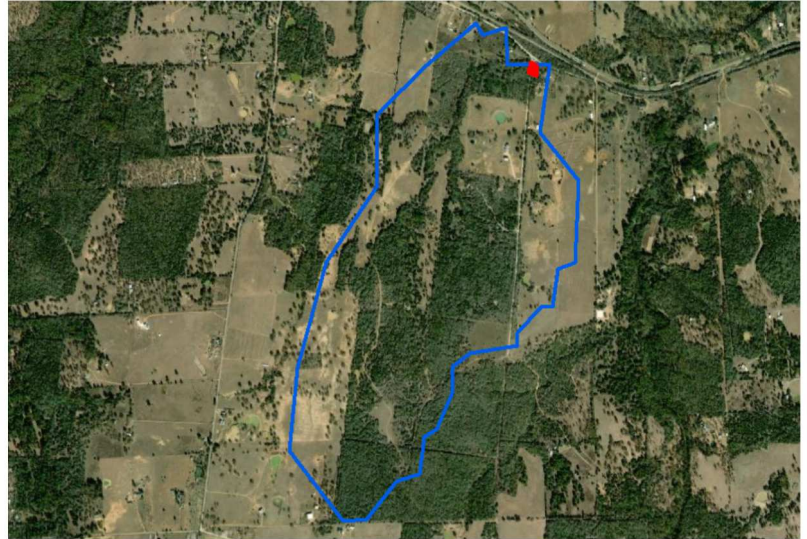
HUC# (if known) 12090301

Tributary(ies) Unnamed Tributary

Stream miles (est.) 0.65 miles

Drainage area: Square miles, est 0.74 or acreage, est 470.5

Other N/A



Flood Risk Description (narrative on frequency, exposure, vulnerability, history, recurring losses, property, population, etc.)

Preliminary Engineering Study to evaluate upgrading the existing low water crossing including preliminary design, level of service analysis, and negative impact analysis.

Population at risk N/A Structures at risk N/A Critical facilities at risk N/A

Farm/Ranch land impacted (acres) N/A Roadway(s) impacted (length) 0.03 miles

Scope of Study (Describe key tasks)

Hydrologic and Hydraulic Analysis (including Atlas 14) Constraints analysis (Environmental, Utility, ROW, Constructibility)

Proposed improvements design (preliminary) Negative Impact Analysis

Risk reduction analysis

Cost estimate and Benefit-Cost-Analysis

Related Goal(s) (List goal ID number and goal statement per RFPG adopted goals)

6.2 Increase the number of entities that mitigate flood risk at vulnerable+

Estimated Cost

Cost \$10,000 to \$100,000 Potential funding source(s) Unknown

Sponsoring Entity

Sponsor (name of entity) Bastrop County Commitment Yes No

Flood Management Evaluation (FME)

STUDY

Title

ID#

REGION 10

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

HUC# (if known)

Tributary(ies)

Stream miles (est.)

Drainage area: Square miles, est or acreage, est

Other



Flood Risk Description (narrative on frequency, exposure, vulnerability, history, recurring losses, property, population, etc.)

Preliminary Engineering Study to evaluate upgrading the existing low water crossing including preliminary design, level of service analysis, and negative impact analysis.

Population at risk Structures at risk Critical facilities at risk

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Scope of Study (Describe key tasks)

Hydrologic and Hydraulic Analysis (including Atlas 14)

Proposed improvements design (preliminary)

Risk reduction analysis

Cost estimate and Benefit-Cost-Analysis

Related Goal(s) (List goal ID number and goal statement per RFPG adopted goals)

6.2 Increase the number of entities that mitigate flood risk at vulnerable+

Estimated Cost

Cost Potential funding source(s)

Sponsoring Entity

Sponsor (name of entity) Commitment Yes No

Flood Management Evaluation (FME)

STUDY

Title Bastrop County Project 12

ID# 101000014

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 Rosanky

County Bastrop County

Watershed Lower Colorado - Cummins

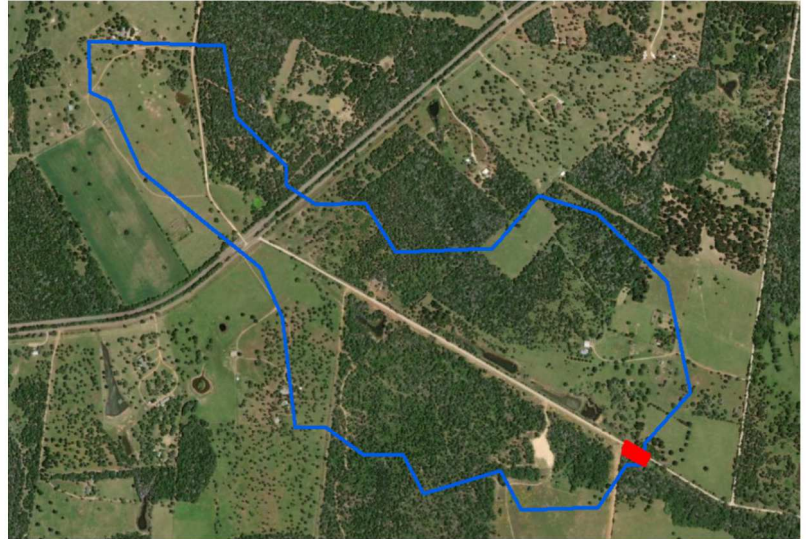
HUC# (if known) 12090301

Tributary(ies) Unnamed Tributary

Stream miles (est.) 0.38 miles

Drainage area: Square miles, est 0.43 or acreage, est 273.2

Other N/A



Flood Risk Description (narrative on frequency, exposure, vulnerability, history, recurring losses, property, population, etc.)

Preliminary Engineering Study to evaluate upgrading the existing low water crossing including preliminary design, level of service analysis, and negative impact analysis.

Population at risk N/A Structures at risk N/A Critical facilities at risk N/A

Farm/Ranch land impacted (acres) N/A Roadway(s) impacted (length) 0.05 miles

Scope of Study (Describe key tasks)

Hydrologic and Hydraulic Analysis (including Atlas 14) Constraints analysis (Environmental, Utility, ROW, Constructibility)

Proposed improvements design (preliminary) Negative Impact Analysis

Risk reduction analysis

Cost estimate and Benefit-Cost-Analysis

Related Goal(s) (List goal ID number and goal statement per RFPG adopted goals)

6.2 Increase the number of entities that mitigate flood risk at vulnerable+

Estimated Cost

Cost \$10,000 to \$100,000 Potential funding source(s) Unknown

Sponsoring Entity

Sponsor (name of entity) Bastrop County Commitment Yes No

Flood Management Evaluation (FME)

STUDY

Title Bastrop County Project 13

ID# 101000013

REGION 10

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 Serbin

County Bastrop County

Watershed Lower Colorado - Cummins

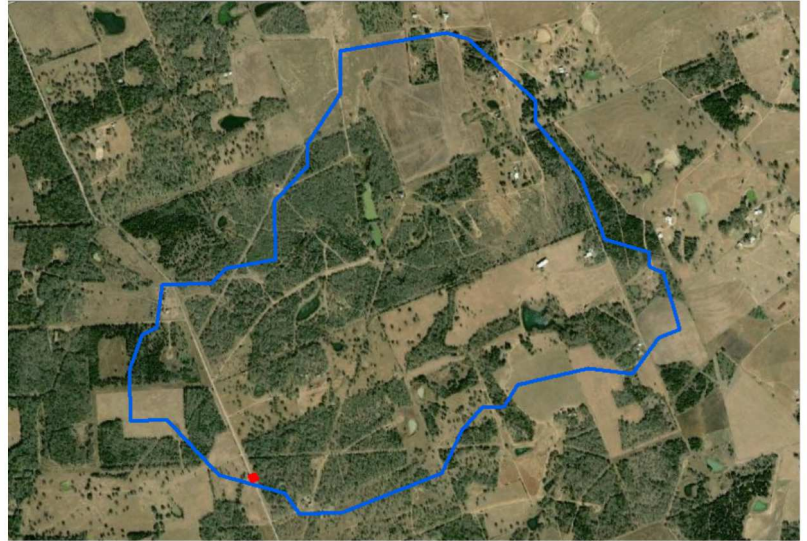
HUC# (if known) 12090301

Tributary(ies) Unnamed Tributary

Stream miles (est.) 1.25 miles

Drainage area: Square miles, est 1.00 or acreage, est 641.4

Other N/A



Flood Risk Description (narrative on frequency, exposure, vulnerability, history, recurring losses, property, population, etc.)

Preliminary Engineering Study to evaluate upgrading the existing low water crossing including preliminary design, level of service analysis, and negative impact analysis.

Population at risk N/A Structures at risk N/A Critical facilities at risk N/A

Farm/Ranch land impacted (acres) N/A Roadway(s) impacted (length) 0.02 miles

Scope of Study (Describe key tasks)

Hydrologic and Hydraulic Analysis (including Atlas 14) Constraints analysis (Environmental, Utility, ROW, Constructibility)

Proposed improvements design (preliminary) Negative Impact Analysis

Risk reduction analysis

Cost estimate and Benefit-Cost-Analysis

Related Goal(s) (List goal ID number and goal statement per RFPG adopted goals)

6.2 Increase the number of entities that mitigate flood risk at vulnerable+

Estimated Cost

Cost \$10,000 to \$100,000 Potential funding source(s) Unknown

Sponsoring Entity

Sponsor (name of entity) Bastrop County Commitment Yes No

Flood Management Evaluation (FME)

STUDY

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

Title Bastrop County Project 20

ID# 101000012

REGION 10

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 Sayersville

County Bastrop County

Watershed Lower Colorado - Cummins

HUC# (if known) 12090301

Tributary(ies) Big Sandy Creek

Stream miles (est.) 1.50 miles

Drainage area: Square miles, est 87.27 or acreage, est 55855.6

Other N/A



Flood Risk Description (narrative on frequency, exposure, vulnerability, history, recurring losses, property, population, etc.)

Preliminary Engineering Study to evaluate upgrading the existing low water crossing including preliminary design, level of service analysis, and negative impact analysis.

Population at risk N/A Structures at risk N/A Critical facilities at risk N/A

Farm/Ranch land impacted (acres) N/A Roadway(s) impacted (length) 0.01 miles

Scope of Study (Describe key tasks)

Hydrologic and Hydraulic Analysis (including Atlas 14)

Constraints analysis (Environmental, Utility, ROW, Constructibility)

Proposed improvements design (preliminary)

Negative Impact Analysis

Risk reduction analysis

Cost estimate and Benefit-Cost-Analysis

Related Goal(s) (List goal ID number and goal statement per RFPG adopted goals)

6.2 Increase the number of entities that mitigate flood risk at vulnerable+

Estimated Cost

Cost \$10,000 to \$100,000

Potential funding source(s) Unknown

Sponsoring Entity

Sponsor (name of entity) Bastrop County

Commitment Yes No

Flood Management Evaluation (FME)

STUDY

Title

ID#

REGION 10

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

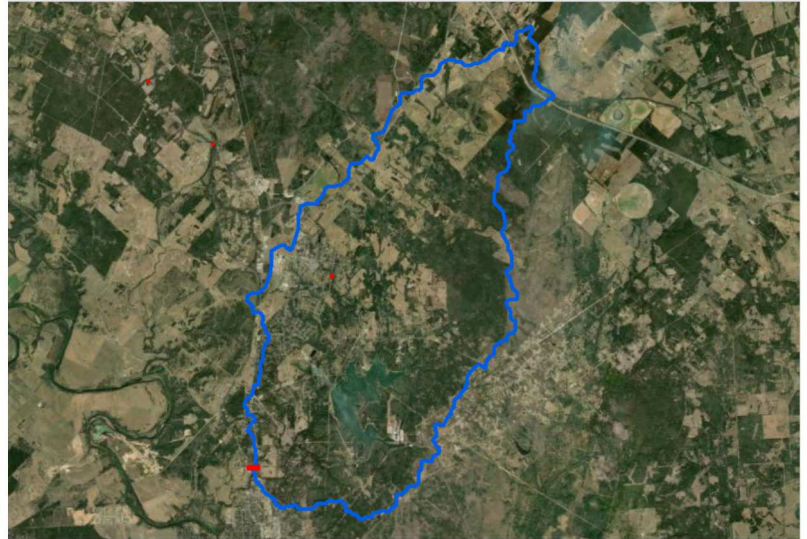
HUC# (if known)

Tributary(ies)

Stream miles (est.)

Drainage area: Square miles, est or acreage, est

Other



Flood Risk Description (narrative on frequency, exposure, vulnerability, history, recurring losses, property, population, etc.)

Preliminary Engineering Study to evaluate upgrading the existing low water crossing including preliminary design, level of service analysis, and negative impact analysis.

Population at risk Structures at risk Critical facilities at risk

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Scope of Study (Describe key tasks)

Hydrologic and Hydraulic Analysis (including Atlas 14)

Proposed improvements design (preliminary)

Risk reduction analysis

Cost estimate and Benefit-Cost-Analysis

Related Goal(s) (List goal ID number and goal statement per RFPG adopted goals)

6.2 Increase the number of entities that mitigate flood risk at vulnerable+

Estimated Cost

Cost Potential funding source(s)

Sponsoring Entity

Sponsor (name of entity) Commitment Yes No

Flood Management Evaluation (FME)

STUDY

Title Bastrop County Project 37

ID# 101000006

REGION 10

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 Camp Swift

County Bastrop County

Watershed Lower Colorado - Cummins

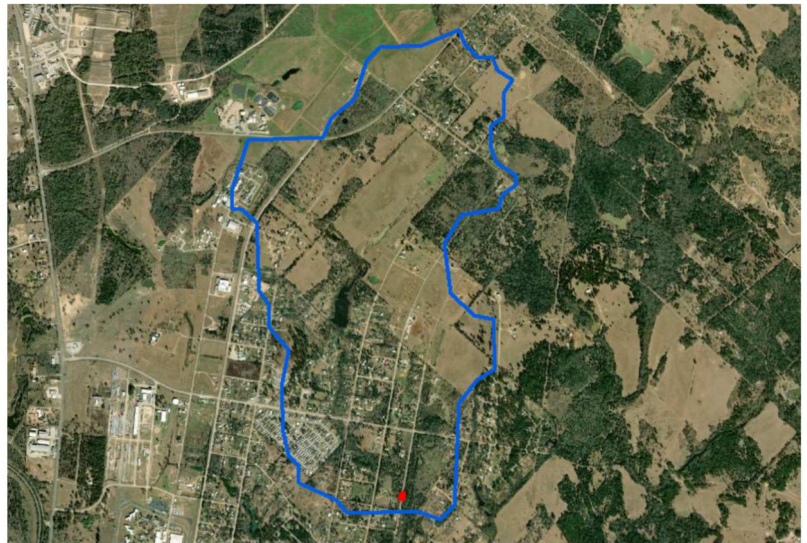
HUC# (if known) 12090301

Tributary(ies) Unnamed Tributary

Stream miles (est.) 1.00 miles

Drainage area: Square miles, est 1.43 or acreage, est 912.3

Other N/A



Flood Risk Description (narrative on frequency, exposure, vulnerability, history, recurring losses, property, population, etc.)

Preliminary Engineering Study to evaluate upgrading the existing low water crossing including preliminary design, level of service analysis, and negative impact analysis.

Population at risk N/A Structures at risk N/A Critical facilities at risk N/A

Farm/Ranch land impacted (acres) N/A Roadway(s) impacted (length) 0.02 miles

Scope of Study (Describe key tasks)

Hydrologic and Hydraulic Analysis (including Atlas 14) Constraints analysis (Environmental, Utility, ROW, Constructibility)

Proposed improvements design (preliminary) Negative Impact Analysis

Risk reduction analysis

Cost estimate and Benefit-Cost-Analysis

Related Goal(s) (List goal ID number and goal statement per RFPG adopted goals)

6.2 Increase the number of entities that mitigate flood risk at vulnerable+

Estimated Cost

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

Sponsoring Entity

Sponsor (name of entity) Bastrop County Commitment Yes No

Flood Management Evaluation (FME)

STUDY

Title

ID#

REGION 10

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

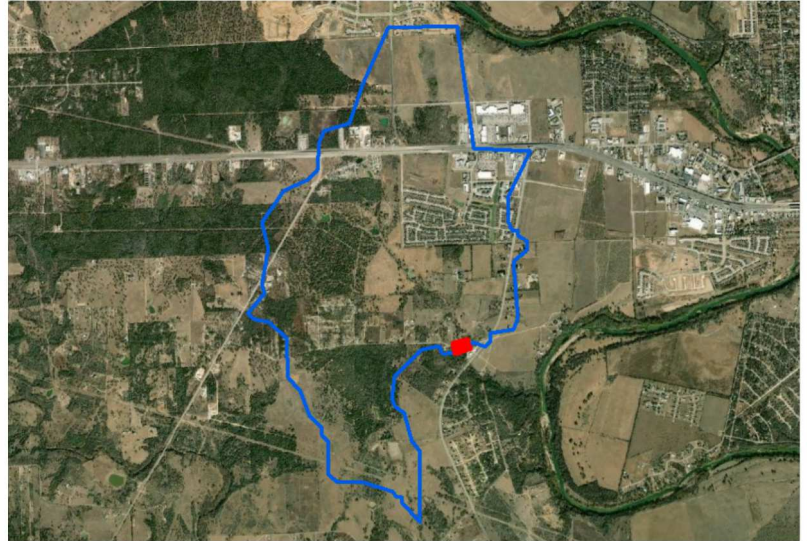
HUC# (if known)

Tributary(ies)

Stream miles (est.)

Drainage area: Square miles, est or acreage, est

Other



Flood Risk Description (narrative on frequency, exposure, vulnerability, history, recurring losses, property, population, etc.)

Preliminary Engineering Study to evaluate upgrading the existing low water crossing including preliminary design, level of service analysis, and negative impact analysis.

Population at risk Structures at risk Critical facilities at risk

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Scope of Study (Describe key tasks)

Hydrologic and Hydraulic Analysis (including Atlas 14)

Proposed improvements design (preliminary)

Risk reduction analysis

Cost estimate and Benefit-Cost-Analysis

Related Goal(s) (List goal ID number and goal statement per RFPG adopted goals)

TBD

Estimated Cost

Cost Potential funding source(s)

Sponsoring Entity

Sponsor (name of entity) Commitment Yes No

Flood Management Evaluation (FME)

STUDY

Title Bastrop County Project 43

ID# 101000003

REGION 10

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 Webberville

County Bastrop County

Watershed Lower Colorado - Cummins

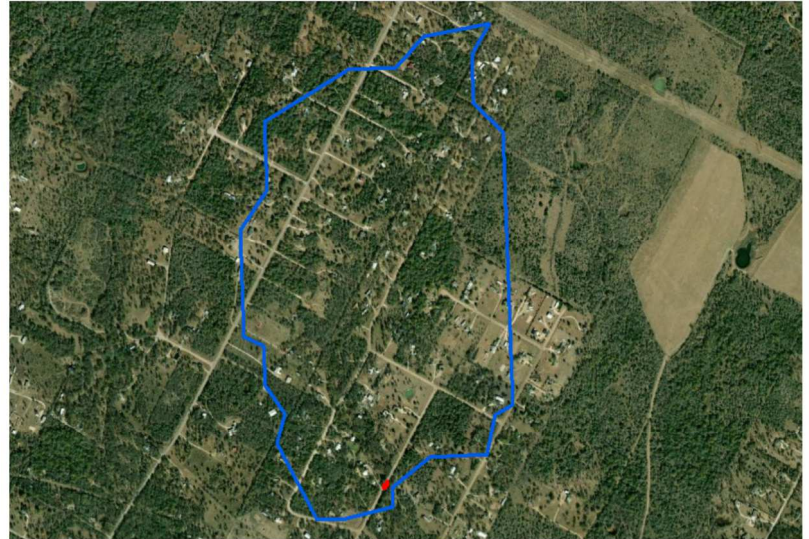
HUC# (if known) 12090301

Tributary(ies) Unnamed Tributary

Stream miles (est.) 0.50 miles

Drainage area: Square miles, est 0.37 or acreage, est 238.6

Other N/A



Flood Risk Description (narrative on frequency, exposure, vulnerability, history, recurring losses, property, population, etc.)

Preliminary Engineering Study to evaluate upgrading the existing low water crossing including preliminary design, level of service analysis, and negative impact analysis.

Population at risk N/A Structures at risk N/A Critical facilities at risk N/A

Farm/Ranch land impacted (acres) N/A Roadway(s) impacted (length) 0.01 miles

Scope of Study (Describe key tasks)

Hydrologic and Hydraulic Analysis (including Atlas 14) Constraints analysis (Environmental, Utility, ROW, Constructibility)

Proposed improvements design (preliminary) Negative Impact Analysis

Risk reduction analysis

Cost estimate and Benefit-Cost-Analysis

Related Goal(s) (List goal ID number and goal statement per RFPG adopted goals)

6.2 Increase the number of entities that mitigate flood risk at vulnerable+

Estimated Cost

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

Sponsoring Entity

Sponsor (name of entity) Bastrop County Commitment Yes No

Flood Management Evaluation (FME)

STUDY

Title Burnet County 8

ID# 101000031

Technical committee recommend Yes No RFGP recommend Yes No

Study Type

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

Problem Area

City Lago Vista

County Travis County

Watershed Austin - Travis Lakes

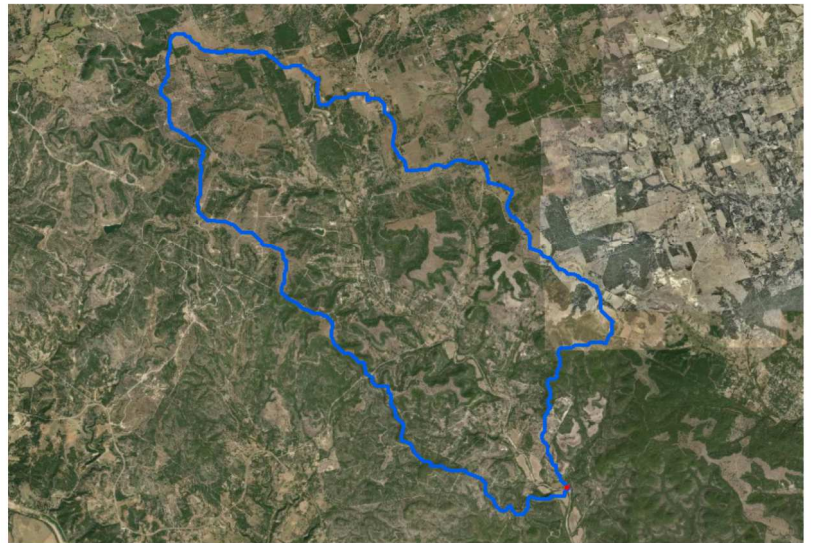
HUC# (if known) 12090205

Tributary(ies) Cow Creek

Stream miles (est.) 1.00 miles

Drainage area: Square miles, est 27.13 or acreage, est 17364.8

Other N/A



Flood Risk Description (narrative on frequency, exposure, vulnerability, history, recurring losses, property, population, etc.)

Preliminary Engineering Study to evaluate upgrading the existing low water crossing including preliminary design, level of service analysis, and negative impact analysis.

Population at risk N/A Structures at risk N/A Critical facilities at risk N/A

Farm/Ranch land impacted (acres) N/A Roadway(s) impacted (length) 0.02 miles

Scope of Study (Describe key tasks)

Hydrologic and Hydraulic Analysis (including Atlas 14) Constraints analysis (Environmental, Utility, ROW, Constructibility)

Proposed improvements design (preliminary) Negative Impact Analysis

Risk reduction analysis

Cost estimate and Benefit-Cost-Analysis

Related Goal(s) (List goal ID number and goal statement per RFGP adopted goals)

6.2 Increase the number of entities that mitigate flood risk at vulnerable+

Estimated Cost

Cost \$10,000 to \$100,000 Potential funding source(s) Unknown

Sponsoring Entity

Sponsor (name of entity) Burnet County Commitment Yes No

Flood Management Evaluation (FME)

STUDY

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

Title

ID#

REGION 10

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

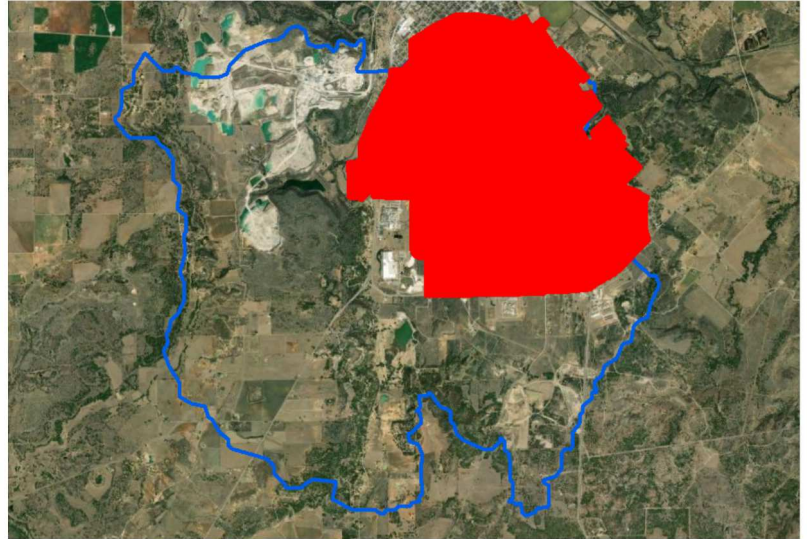
HUC# (if known)

Tributary(ies)

Stream miles (est.)

Drainage area: Square miles, est or acreage, est

Other



Flood Risk Description (narrative on frequency, exposure, vulnerability, history, recurring losses, property, population, etc.)

Preliminary Engineering Study to evaluate upgrading the existing low water crossing including preliminary design, level of service analysis, and negative impact analysis.

Population at risk Structures at risk Critical facilities at risk

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Scope of Study (Describe key tasks)

Hydrologic and Hydraulic Analysis (including Atlas 14)

Constraints analysis (Environmental, Utility, ROW, Constructibility)

Proposed improvements design (preliminary)

Negative Impact Analysis

Risk reduction analysis

Cost estimate and Benefit-Cost-Analysis

Related Goal(s) (List goal ID number and goal statement per RFPG adopted goals)

6.2 Increase the number of entities that mitigate flood risk at vulnerable+

Estimated Cost

Cost

Potential funding source(s)

Sponsoring Entity

Sponsor (name of entity)

Commitment Yes No

Flood Management Evaluation (FME)

STUDY

Title

ID#

REGION 10

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

HUC# (if known)

Tributary(ies)

Stream miles (est.)

Drainage area: Square miles, est or acreage, est

Other



Flood Risk Description (narrative on frequency, exposure, vulnerability, history, recurring losses, property, population, etc.)

Preliminary Engineering Study to evaluate upgrading the existing low water crossing including preliminary design, level of service analysis, and negative impact analysis.

Population at risk Structures at risk Critical facilities at risk

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Scope of Study (Describe key tasks)

Hydrologic and Hydraulic Analysis (including Atlas 14)

Proposed improvements design (preliminary)

Risk reduction analysis

Cost estimate and Benefit-Cost-Analysis

Related Goal(s) (List goal ID number and goal statement per RFPG adopted goals)

TBD

Estimated Cost

Cost Potential funding source(s)

Sponsoring Entity

Sponsor (name of entity) Commitment Yes No

Flood Management Evaluation (FME)

STUDY

Title Gill's Branch Alternative 2

ID# 101000022

REGION 10

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 City of Bastrop

County Bastrop County

Watershed Lower Colorado - Cummins

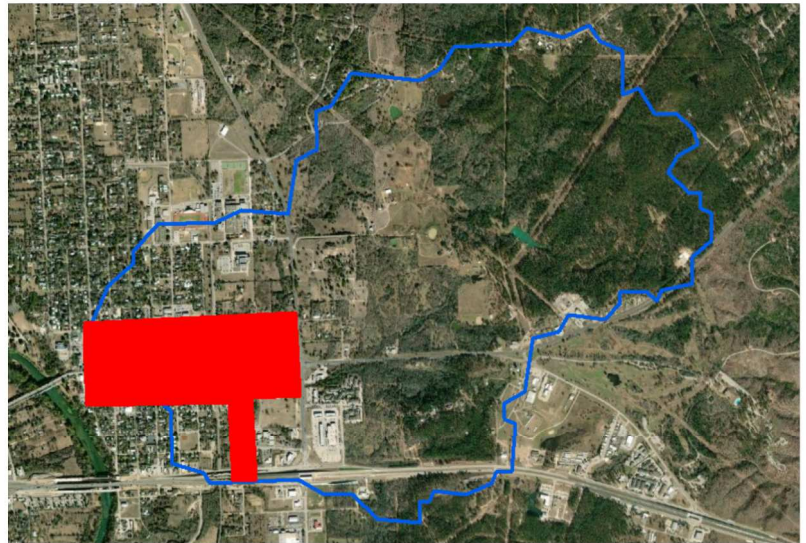
HUC# (if known) 12090301

Tributary(ies) Gill's Branch and Unnamed Tributaries

Stream miles (est.) 2.30 miles

Drainage area: Square miles, est 2.23 or acreage, est 1426.4

Other N/A



Flood Risk Description (narrative on frequency, exposure, vulnerability, history, recurring losses, property, population, etc.)

Preliminary Engineering Study to evaluate upgrading the existing low water crossing including preliminary design, level of service analysis, and negative impact analysis.

Population at risk N/A Structures at risk N/A Critical facilities at risk N/A

Farm/Ranch land impacted (acres) N/A Roadway(s) impacted (length) 29 miles

Scope of Study (Describe key tasks)

Hydrologic and Hydraulic Analysis (including Atlas 14) Constraints analysis (Environmental, Utility, ROW, Constructibility)

Proposed improvements design (preliminary) Negative Impact Analysis

Risk reduction analysis

Cost estimate and Benefit-Cost-Analysis

Related Goal(s) (List goal ID number and goal statement per RFPG adopted goals)

6.2 Increase the number of entities that mitigate flood risk at vulnerable+

Estimated Cost

Cost \$7,673,727 Potential funding source(s) Unknown

Sponsoring Entity

Sponsor (name of entity) City of Bastrop Commitment Yes No

Flood Management Evaluation (FME)

STUDY

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

Title Edison & Creek Street

ID# 101000042

REGION 10

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 City of Fredericksburg

County Gillespie County

Watershed Pedernales

HUC# (if known) 12090206

Tributary(ies) Unnamed Tributary

Stream miles (est.) 0.25 miles

Drainage area: Square miles, est 0.06 or acreage, est 36.4

Other N/A



Flood Risk Description (narrative on frequency, exposure, vulnerability, history, recurring losses, property, population, etc.)

Preliminary Engineering Study to evaluate upgrading the existing low water crossing including preliminary design, level of service analysis, and negative impact analysis.

Population at risk N/A Structures at risk N/A Critical facilities at risk N/A

Farm/Ranch land impacted (acres) N/A Roadway(s) impacted (length) 0.05 miles

Scope of Study (Describe key tasks)

Hydrologic and Hydraulic Analysis (including Atlas 14) Constraints analysis (Environmental, Utility, ROW, Constructibility)

Proposed improvements design (preliminary) Negative Impact Analysis

Risk reduction analysis

Cost estimate and Benefit-Cost-Analysis

Related Goal(s) (List goal ID number and goal statement per RFPG adopted goals)

6.2 Increase the number of entities that mitigate flood risk at vulnerable+

Estimated Cost

Cost \$469,915 Potential funding source(s) Unknown

Sponsoring Entity

Sponsor (name of entity) City of Fredericksburg Commitment Yes No

Flood Management Evaluation (FME)

STUDY

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

Title Johnson City 8

ID# 101000131

REGION 10

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 Johnson City

County Blanco County

Watershed Pedernales

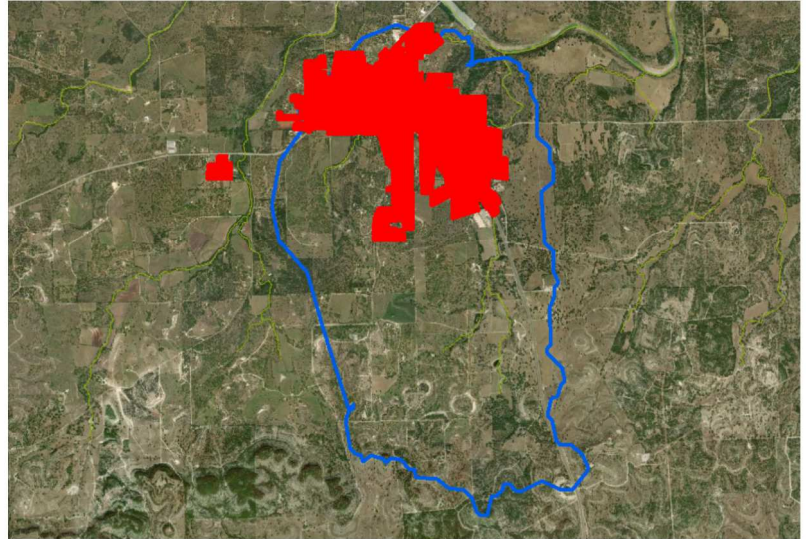
HUC# (if known) 12090206

Tributary(ies) Town Creek, Deer Creek

Stream miles (est.) 8.50 miles

Drainage area: Square miles, est 8.64 or acreage, est 5526.8

Other N/A



Flood Risk Description (narrative on frequency, exposure, vulnerability, history, recurring losses, property, population, etc.)

Preliminary Engineering Study to evaluate upgrading the existing low water crossing including preliminary design, level of service analysis, and negative impact analysis.

Population at risk N/A Structures at risk N/A Critical facilities at risk N/A

Farm/Ranch land impacted (acres) N/A Roadway(s) impacted (length) 121 miles

Scope of Study (Describe key tasks)

Hydrologic and Hydraulic Analysis (including Atlas 14) Constraints analysis (Environmental, Utility, ROW, Constructibility)

Proposed improvements design (preliminary) Negative Impact Analysis

Risk reduction analysis

Cost estimate and Benefit-Cost-Analysis

Related Goal(s) (List goal ID number and goal statement per RFPG adopted goals)

3.2 Increase the number of entities that have evaluated priority flood risk

Estimated Cost

Cost \$10,000 to \$100,000 Potential funding source(s) Unknown

Sponsoring Entity

Sponsor (name of entity) Johnson City Commitment Yes No

Flood Management Evaluation (FME)

STUDY

Title Johnson City 8

ID# 101000131

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 Johnson City

County Blanco County

Watershed Pedernales

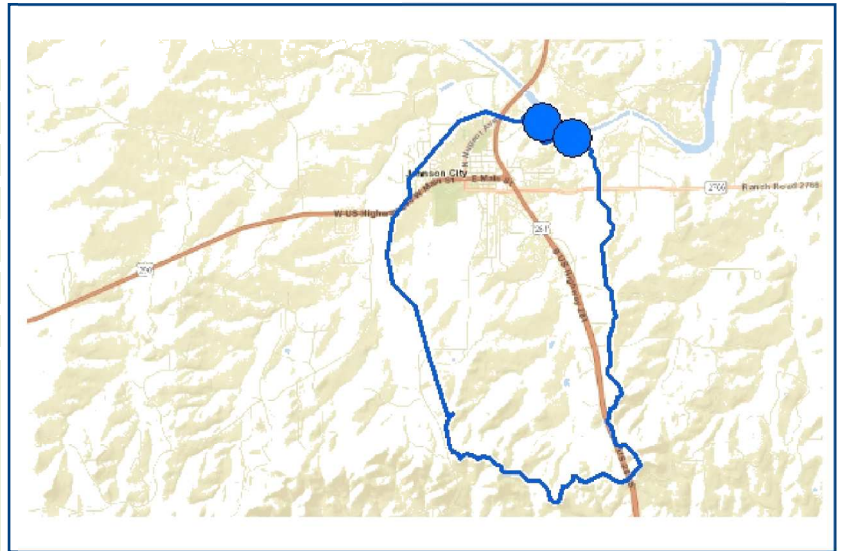
HUC# (if known) 12090206

Tributary(ies) Town Creek, Deer Creek

Stream miles (est.) 8.50 miles

Drainage area: Square miles, est 8.64 or acreage, est 5526.8

Other N/A



Flood Risk Description (narrative on frequency, exposure, vulnerability, history, recurring losses, property, population, etc.)

Preliminary Engineering Study to evaluate upgrading the existing low water crossing including preliminary design, level of service analysis, and negative impact analysis.

Population at risk N/A Structures at risk N/A Critical facilities at risk N/A

Farm/Ranch land impacted (acres) N/A Roadway(s) impacted (length) 121 miles

Scope of Study (Describe key tasks)

Hydrologic and Hydraulic Analysis (including Atlas 14) Constraints analysis (Environmental, Utility, ROW, Constructibility)

Proposed improvements design (preliminary) Negative Impact Analysis

Risk reduction analysis

Cost estimate and Benefit-Cost-Analysis

Related Goal(s) (List goal ID number and goal statement per RFPG adopted goals)

3.2 Increase the number of entities that have evaluated priority flood risk

Estimated Cost

Cost \$10,000 to \$100,000 Potential funding source(s) Unknown

Sponsoring Entity

Sponsor (name of entity) Johnson City Commitment Yes No

Flood Management Evaluation (FME)

STUDY

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

REGION 10

Title Johnson City 8

ID# 101000131

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 Johnson City

County Blanco County

Watershed Pedernales

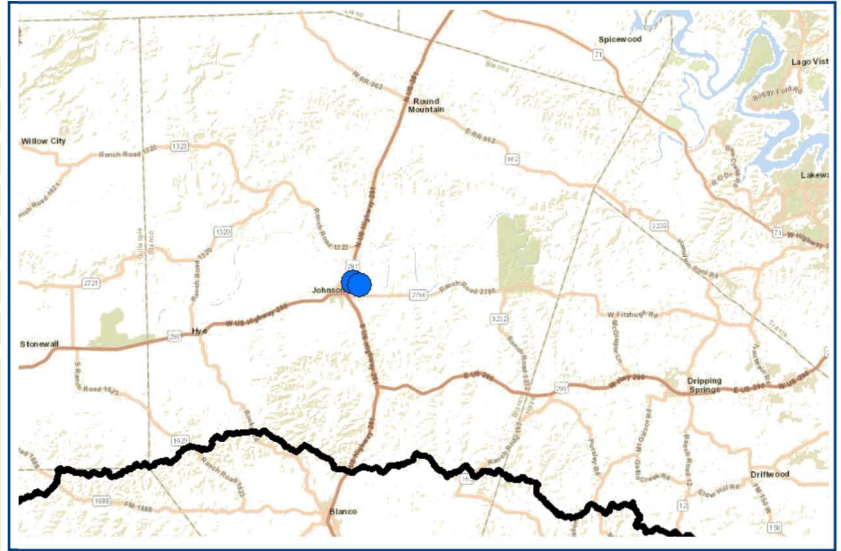
HUC# (if known) 12090206

Tributary(ies) Town Creek, Deer Creek

Stream miles (est.) 8.50 miles

Drainage area: Square miles, est 8.64 or acreage, est 5526.8

Other N/A



Flood Risk Description (narrative on frequency, exposure, vulnerability, history, recurring losses, property, population, etc.)

Preliminary Engineering Study to evaluate upgrading the existing low water crossing including preliminary design, level of service analysis, and negative impact analysis.

Population at risk N/A Structures at risk N/A Critical facilities at risk N/A

Farm/Ranch land impacted (acres) N/A Roadway(s) impacted (length) 121 miles

Scope of Study (Describe key tasks)

Hydrologic and Hydraulic Analysis (including Atlas 14)

Constraints analysis (Environmental, Utility, ROW, Constructibility)

Proposed improvements design (preliminary)

Negative Impact Analysis

Risk reduction analysis

Cost estimate and Benefit-Cost-Analysis

Related Goal(s) (List goal ID number and goal statement per RFPG adopted goals)

3.2 Increase the number of entities that have evaluated priority flood risk

Estimated Cost

Cost \$10,000 to \$100,000

Potential funding source(s) Unknown

Sponsoring Entity

Sponsor (name of entity) Johnson City

Commitment Yes No