

Task 13 - Sponsor Requested FMEs (Municipality)

Batch	Page	New Action Number	Old Action Number (To be removed)	Type	Sponsor	Project	Notes	TC Rec (Y/N)	Tech Committee Rec Date	RFPG Rec (Y/N)	RFPG Rec Date
		101000060	101000060	NA	Hays (Municipality)	City of Hays Little Bear Creek	Sponsor requested removal				
2	2	101000203	101000203	FME	Austin (Municipality)	Highland Hills Crossing Improvements Project	Revised Sponsor only				
2	3	101000215		FME	Bastrop (Municipality)	Hill, Pecan, & Pine Street Drainage Improvements (DMP GB-04)	New FME				
2	4	101000216		FME	Bastrop (Municipality)	Local Storm Drain Improvements Near Piney Creek (DMP PC-04)	New FME				
2	5	101000217		FME	Bastrop (Municipality)	Pecan Street Bypass & Pond Diversion (DMP PC-05)	New FME				
2	6	101000218		FME	Bastrop (Municipality)	Pecan, Beech, & Haysel Improvements to Gills Branch (DMP GB-05)	New FME				
2	7	101000219		FME	Bastrop (Municipality)	Bastrop CCTV Storm Drain Evaluation (DMP COB-02)	New FME				
2	8	101000220		FME	Bastrop (Municipality)	Water, Spring, & Cedar Street Drainage Improvements (DMP GB-03)	New FME				
2	9	101000226		FME	Hays (Municipality)	City of Hays Drainage Study	New FME				
2	10	101000229		FME	Needville (Municipality)	Wastewater Treatment Plant Floodproofing	New FME				
2	11	101000230		FME	Needville (Municipality)	Fairchild Creek Drainage Mitigation Study	New FME				
2	12	101000231		FME	Pflugerville (Municipality)	Caldwell Elementary Improvements at Upper Gilleland Creek (DMP GC-01)	New FME				
2	13	101000232		FME	Pflugerville (Municipality)	Pflugerville Storm Drain CCTV Evaluation (DMP PF-03)	New FME				
2	14	101000233		FME	Pflugerville (Municipality)	Hidden Lake Drive Improvements at Wilbarger Creek Tributary 200 (DMP WC-02)	New FME				
2	15	101000234		FME	Pflugerville (Municipality)	Kennemer Drive Improvements at Wilbarger Creek Tributary 200 (DMP WC-05)	New FME				
2	16	101000235		FME	Pflugerville (Municipality)	North Heatherwilde Improvements at Upper Gilleland Creek (DMP GC-02)	New FME				
2	17	101000237		FME	Pflugerville (Municipality)	Railroad Avenue Improvements at Upper Gilleland Creek (DMP GC-04)	New FME				
2	18	101000238		FME	Pflugerville (Municipality)	Swenson Farms Improvements at Upper Gilleland Creek (DMP GC-03)	New FME				
2	19	101000239		FME	Pflugerville (Municipality)	Weiss Lane Improvements at Wilbarger Creek (DMP WC-01)	New FME				
2	20	101000246		FME	Bastrop (Municipality)	Riverwood Drive Improvements at Piney Creek (DMP PC-02)	New FME				

Flood Management Evaluation (FME) STUDY

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

Title ID#
Sponsor (note if City or County) Commitment Yes No

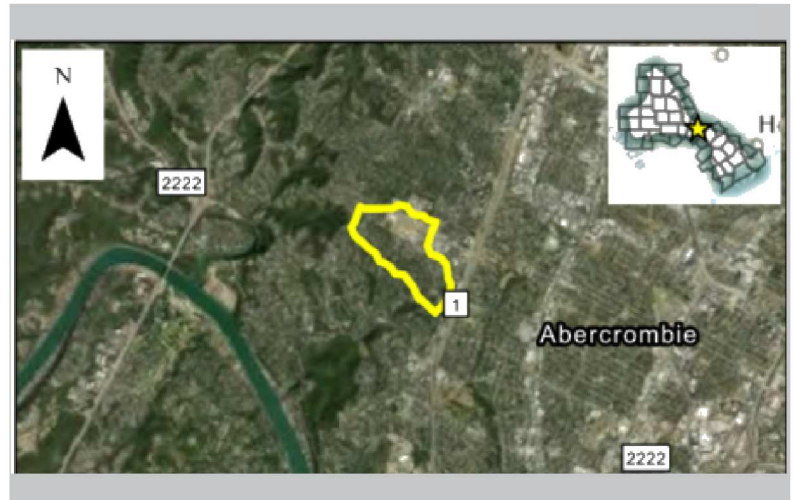
REGION 10

Study Type

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

Problem Area

City County
Watershed name(s)
Tributary(ies)
HUC#(s) Stream miles (est.)
Drainage area: square miles, est or acreage, est
Social Vulnerability Index (SVI)
(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 Structures at risk Critical facilities at risk (number)
Farm/Ranch land impacted (acres) Roadway(s) impacted (miles)

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 Potential funding source(s)

Flood Management Evaluation (FME) STUDY

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

Title ID#
Sponsor (note if City or County) Commitment Yes No

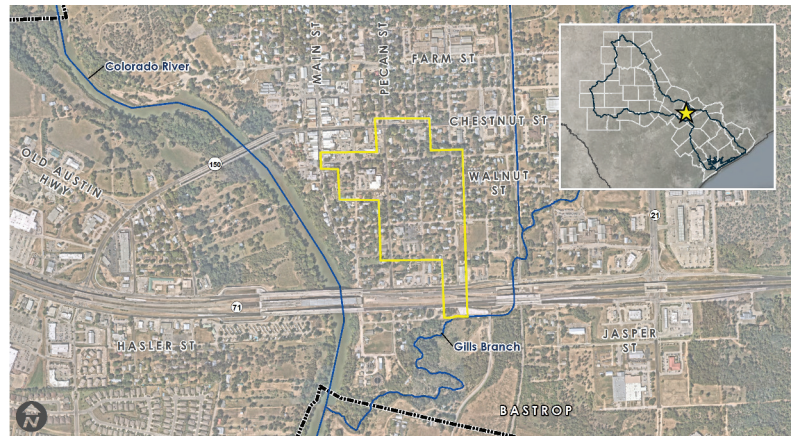
REGION 10

Study Type

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

Problem Area

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



Flood Risk Description

Hill, Pecan, Emile, Pine, Jefferson, and other streets in the surrounding residential area experience significant flooding due to the low-lying nature of the downtown Bastrop terrain. To reduce ponding and flooding during rain events, an upgraded drainage system is proposed to convey runoff into Gills Branch. Approximately 160 properties will benefit from the upgraded stormwater system, reducing private property flooding concerns. These improvements should consider improvements in other portions of the Gills Branch watershed. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

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

Scope of Study

Conduct a study to evaluate proposed improvements. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), limited field survey and geotechnical investigations, 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). Potential improvements include approximately 5,940 feet of storm drain to replace the existing undersized storm drain system. The parallel pipes along Jefferson and Pine Streets will be cut, plugged, and abandoned and existing flow will be directed through the new, larger storm drain system. The new system will connect to the existing Hill Street channel and then drain into Gills Branch. The 2023 City of Bastrop Drainage Master Plan estimated potential costs of improvements totaling approximately \$8.7 million.

Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas. 6.1 Reduce the number of structures and critical facilities that are at high risk 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 Potential funding source(s)

Flood Management Evaluation (FME) STUDY

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

Title ID#
Sponsor (note if City or County) Commitment Yes No

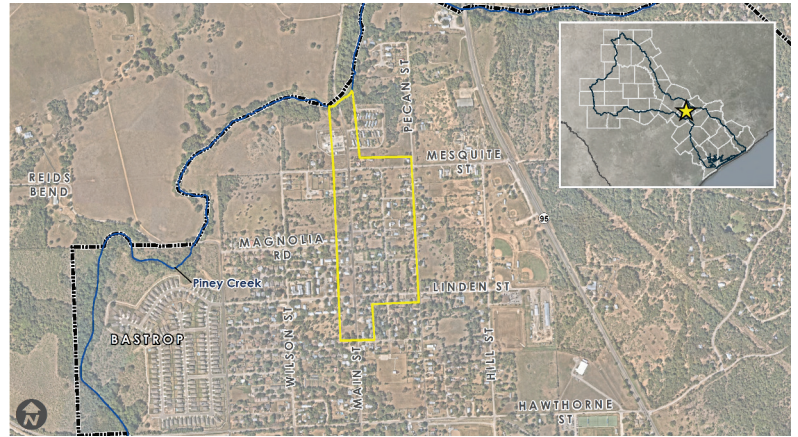
REGION 10

Study Type

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

Problem Area

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



Flood Risk Description

Streets and residential area experience significant flooding due to the low-lying nature of the downtown Bastrop terrain. To reduce ponding and flooding during rain events, a new stormwater system is proposed to redirect runoff into the Piney Creek. Approximately 115 properties will benefit from the upgraded stormwater system, reducing private property flooding concerns. These improvements should consider improvements in other portions of the Piney Creek watershed. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

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

Scope of Study

Conduct a study to evaluate proposed improvements. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), limited field survey and geotechnical investigations, 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). Potential improvements include approximately 2,930 ft of storm drain to follow the Main Street right-of-way and convey water directly into the creek, bypassing the existing storm drain system to the east, a 36-in pipe extending approximately 1,580-ft, from Linden Street to Mesquite Street, and two storm drain inlets every 300-ft to capture runoff. Existing pipes following Mesquite and Linden Streets will be cut, plugged, and abandoned to reduce flow through the existing storm drain system. Drainage at Mesquite and Linden Street will be captured and conveyed through the Main Street system. These improvements are tied to the FME for Pecan Street Bypass & Pond Diversion. The 2023 City of Bastrop Drainage Master Plan estimated potential costs of improvements totaling approximately \$5.1 million.

Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas. 6.1 Reduce the number of structures and critical facilities that are at high risk 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 Potential funding source(s)

Flood Management Evaluation (FME) STUDY

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

Title Pecan Street Bypass & Pond Diversion (DMP PC-05) ID# 101000217
Sponsor (note if City or County) Bastrop (Municipality) Commitment Yes No

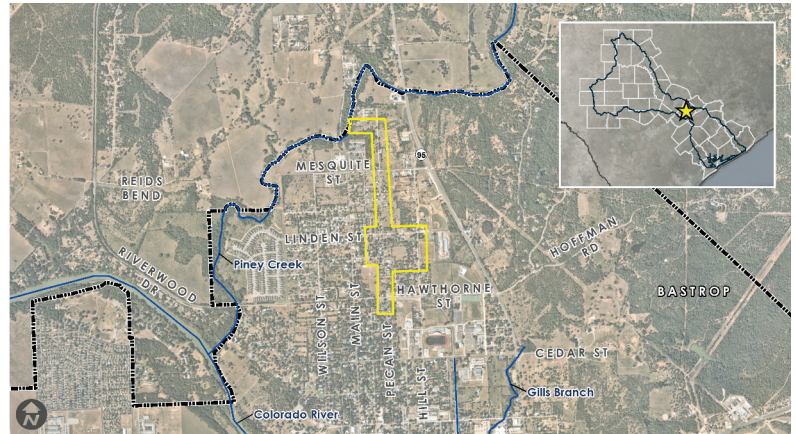
REGION 10

Study Type

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

Problem Area

City Bastrop County Bastrop
Watershed name(s) Piney Creek-Colorado River
Tributary(ies) Piney Creek
HUC#(s) 1209030102 Stream miles (est.) NA
Drainage area: square miles, est 1 or acreage, est
Social Vulnerability Index (SVI) 0.5979
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)
Other



Flood Risk Description

Streets and residential area experience significant flooding due to the low-lying nature of the downtown Bastrop terrain. To reduce ponding and flooding during rain events, a Pecan Street bypass is proposed to redirect runoff into the Piney Creek. Approximately 135 properties will benefit from the new stormwater system, reducing private property flooding concerns. These improvements should consider improvements in other portions of the Piney Creek watershed. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

Population at risk 34 Structures at risk 73 Critical facilities at risk (number) 0
Farm/Ranch land impacted (acres) 4 Roadway(s) impacted (miles) 0.89

Scope of Study

Conduct a study to evaluate proposed improvements. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), limited field survey and geotechnical investigations, 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). Potential improvements include a 1,600 ft diversion from the Hill/Linden pond, approximately 8,900 ft of storm drain along the Pecan Street right-of-way, and a 250 ft pipe to collect runoff between Hawthorne and Linden Street. Existing pipes on Linden and Laurel Streets will be cut, plugged, and abandoned to reduce flow through the existing storm drain system. These improvements are tied to the FMEs for Pecan Street Bypass & Pond Diversion as well as Local Storm Drain Improvements near Piney Creek. The 2023 City of Bastrop Drainage Master Plan estimated potential costs of improvements totaling approximately \$23.7 million.

Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas. 6.1 Reduce the number of structures and critical facilities that are at high risk 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 \$1,700,000 Potential funding source(s) Federal/state grants and/or local funds

Flood Management Evaluation (FME) STUDY

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

Title Pecan, Beech, & Haysel Improvements to Gills Branch (DMP GB-05) ID# 101000218
Sponsor (note if City or County) Bastrop (Municipality) Commitment Yes No

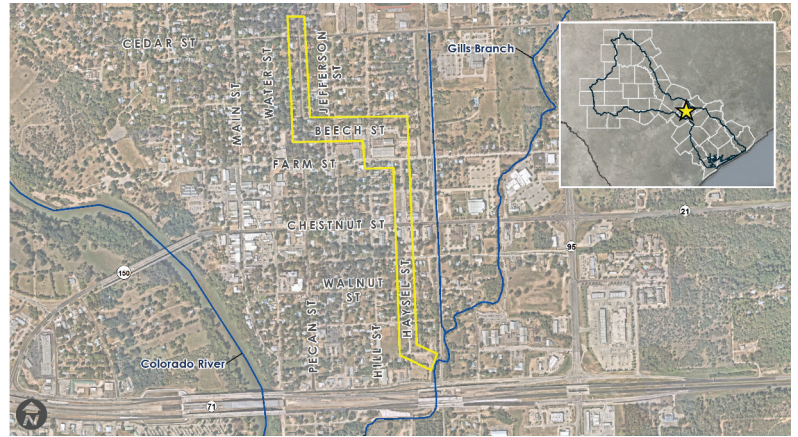
REGION 10

Study Type

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

Problem Area

City Bastrop County Bastrop
Watershed name(s) Piney Creek-Colorado River
Tributary(ies) Gills Branch
HUC#(s) 1209030102 Stream miles (est.) NA
Drainage area: square miles, est 1 or acreage, est
Social Vulnerability Index (SVI) 0.5979
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)
Other



Flood Risk Description

Haysel, Farm, Beech, Pecan, and other streets in the surrounding residential area experience significant flooding due to the low-lying nature of the downtown Bastrop terrain. To reduce ponding and flooding during rain events, an upgraded system is proposed to redirect runoff into Gills Branch. Approximately 180 properties will benefit from the upgraded stormwater system, reducing private property flooding concerns. These improvements should consider improvements in other portions of the Gills Branch watershed. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

Population at risk 990 Structures at risk 60 Critical facilities at risk (number) 0
Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 1.10

Scope of Study

Conduct a study to evaluate proposed improvements. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), limited field survey and geotechnical investigations, 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). Potential improvements include 5,520 feet of storm drain to replace the existing undersized system. The existing pipe conveying flow through the Mina Elementary campus will be cut, plugged, and abandoned, and flow will be redirected from Pecan Street through the Hill and Farm Street rights-of-way, eventually rejoining the Haysel Street trunkline. The 2023 City of Bastrop Drainage Master Plan estimated potential costs of improvements totaling approximately \$20.6 million.

Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas. 6.1 Reduce the number of structures and critical facilities that are at high risk 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 \$1,400,000 Potential funding source(s) Federal/state grants and/or local funds

Flood Management Evaluation (FME) STUDY

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

Title ID#
Sponsor (note if City or County) Commitment Yes No

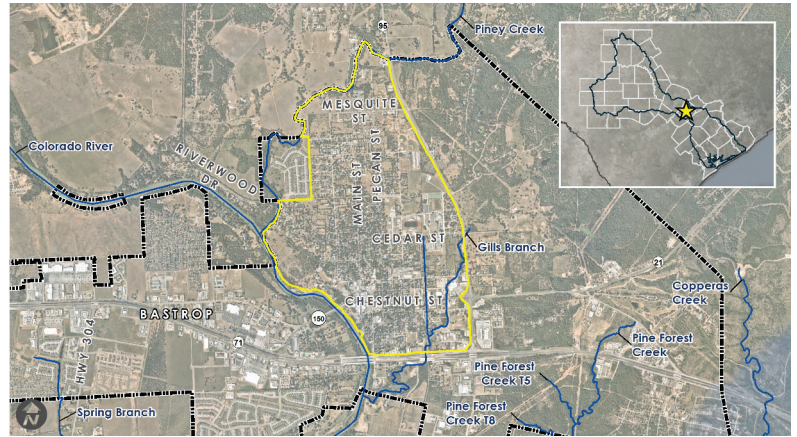
REGION 10

Study Type

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

Problem Area

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



Flood Risk Description

The existing storm drain system was surveyed, to the extent possible, within the city limits and right of way, during Spring of 2022. Survey points included storm drain inlets, manhole elevations, pipe flowlines and dimensions, and outfall flow lines and dimensions. The survey team captured approximately 360 storm drain inlets, 80 manholes, and 35 outfalls. A storm drain database was developed for the City of Bastrop to map and detail existing storm drain infrastructure within city limits. There is a need to assess the condition and functionality of the storm drainage system to develop a maintenance and improvement plan.

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

Scope of Study

Conduct a study to assess the condition of the existing storm drain infrastructure within the urban core of the City of Bastrop. The study should utilize closed-circuit television (CCTV) inspection. Inspection will analyze approximately 17,000 feet of storm drain infrastructure. Evaluation will allow the design consultant to develop a storm drain maintenance and improvement plan.

Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas. 6.1 Reduce the number of structures and critical facilities that are at high risk 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 Potential funding source(s)

Flood Management Evaluation (FME) STUDY

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

Title ID#
Sponsor (note if City or County) Commitment Yes No

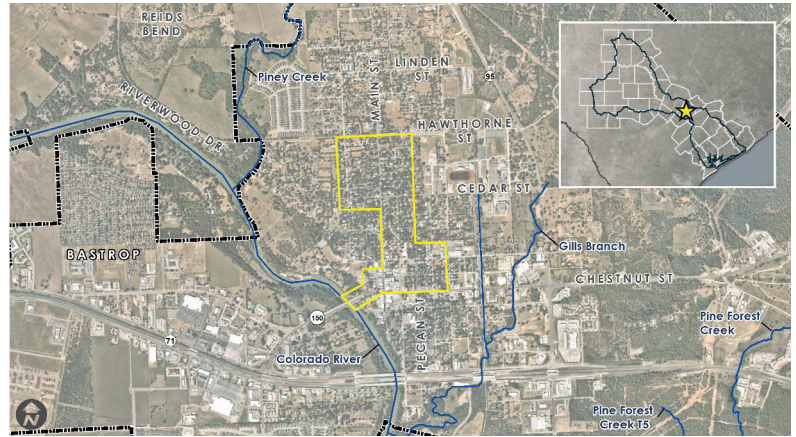
REGION 10

Study Type

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

Problem Area

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



Flood Risk Description

Water, Spring, Cedar, and other streets in the surrounding residential area experience significant flooding due to the low-lying nature of the downtown Bastrop terrain. To reduce ponding and flooding during rain events, an upgraded system is proposed to redirect runoff into the Colorado River. Approximately 260 properties will benefit from the upgraded stormwater system, reducing private property flooding concerns. These improvements should consider improvements in other portions of the Gills Branch watershed. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

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

Scope of Study

Conduct a study to evaluate proposed improvements. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), limited field survey and geotechnical investigations, 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). Potential improvements include 17,100 feet of storm drain to replace the existing undersized system. Pipes at Beech and Jefferson will be cut, plugged, and abandoned and flow will be directed through the new storm drain system. Existing laterals extending down Beech, Buttonwood, & Elm St will remain unchanged. The 2023 City of Bastrop Drainage Master Plan estimated potential costs of improvements totaling approximately \$25.7 million.

Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas. 6.1 Reduce the number of structures and critical facilities that are at high risk 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 Potential funding source(s)

Flood Management Evaluation (FME) STUDY

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

Title ID#
Sponsor (note if City or County) Commitment Yes No

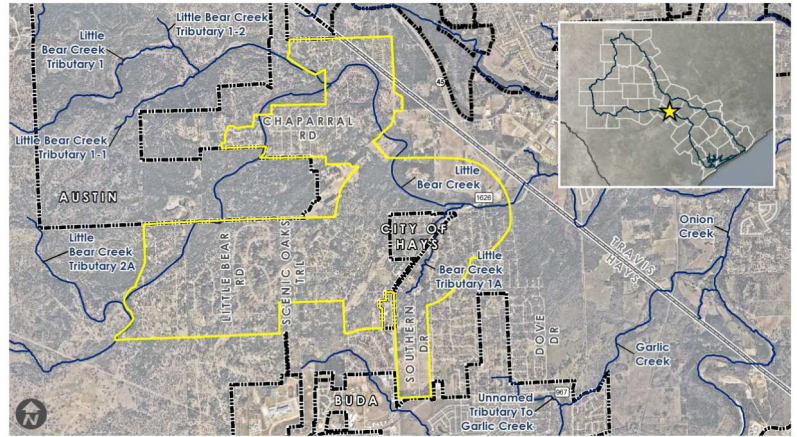
REGION 10

Study Type

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

Problem Area

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



Flood Risk Description

The City of Hays is located between two tributaries of Little Bear Creek. Historically, this area has been subject to major flooding events resulting in a threat to human and animal life and extensive property/infrastructure damage. Compounding area flooding problems relative to the City of Hays is the recent widening of FM 1626 from a two lane country road to a five lane transportation corridor; completion of SH 45 Southwest; increased upstream impervious cover due to major single family/multi-housing residential development and commercial/retail development. Additionally, several proposed/planned major residential and commercial development will significantly increase population density and impervious cover in the watersheds located upstream from the City of Hays. Potential increases in flood risk threaten the City of Hays and thousands of people sole source drinking water supply derived from the Barton Springs Segment of the Edwards Aquifer. Water quality is a concern as a large portion of the Little Bear Creek Watershed is either located over the Barton Springs-Edwards Aquifer recharge, transition or contributing zones. The City of Hays in 2017 conducted a watershed study to assess flood risk and to prepare a drainage master plan for areas within the City's jurisdiction. This master plan needs to be updated to reflect changed conditions as described above, as well as to incorporate updated Atlas 14 rainfall values.

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

Scope of Study

Update information and data used to develop the 2017 drainage master plan. Leverage the Atlas 14 hydrologic/hydraulic models for Little Bear Creek and Little Bear Creek Tributary 1A to assess riverine flood risk and exposure for the 10-, 25-, 100-, and 500-year flood events. Assess local drainage patterns using Atlas 14 rainfall data to identify potential local flood exposure in the City and ETJ areas. Identify priority flood risk areas and for such areas identify, evaluate, and recommend structural and non-structural flood risk reduction measures. Alternatives analysis to include potential negative upstream and/or downstream impacts, environmental impacts, cost and benefit analysis for risk reduction measures, and potential adverse impacts and/or benefits associated with groundwater recharge and drinking water supply.

Related Goal(s)

3.1 Increase the number of entities that have updated watershed models and floodplain maps to reflect current conditions, including as applicable Atlas 14 (Volume 11) revised rainfall data. 5.1/6.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss.

Estimated Study Cost

Cost Potential funding source(s)

Flood Management Evaluation (FME) STUDY

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

Title ID#

Sponsor (note if City or County) Commitment Yes No

REGION 10

Study Type

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

Other

Problem Area

City County

Watershed name(s)

Tributary(ies)

HUC#(s) Stream miles (est.)

Drainage area: square miles, est or acreage, est

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

Other

Insert location map here

Flood Risk Description

The plant is located adjacent to Buffalo creek that runs through the City of Needville. This area hasn't been studied in detail, but as a critical facility further study is recommended to assess risk of flood from Buffalo Creek. There were no reported loss of service events in initial data gathering. The results of the study will provide additional insight into existing flood risk indicators to evaluate projects for future flood planning cycles.

Population at risk Structures at risk Critical facilities at risk (number)

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

Scope of Study

The flood risk study of the wastewater treatment plant area will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to identify priority flood risk areas, preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability). This information will allow for a better understanding of high risk areas and future potential projects.

Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural

Estimated Study Cost

Cost Potential funding source(s)

Flood Management Evaluation (FME) STUDY

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

Title ID#

Sponsor (note if City or County) Commitment Yes No

REGION 10

Study Type

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

Other

Problem Area

City County

Watershed name(s)

Tributary(ies)

HUC#(s) Stream miles (est.)

Drainage area: square miles, est or acreage, est

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

Other

Insert location map here

Flood Risk Description

The southwest portion of the City of Needville and its extraterritorial jurisdiction has been defined as a major flooding area for the City. Portions of the Buffalo Creek watershed have been interconnected with an extension of Fairchild's Creek. Based on preliminary drainage investigations, it appears that this interconnection may contribute to flooding in Needville. Further study is required to understand existing flood risk indicators is required to develop solutions for this problematic flood prone area of the City.

Population at risk Structures at risk Critical facilities at risk (number)

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

Scope of Study

This study will include hydrologic and hydraulic analysis (with Atlas 14 rainfall) to assess the existing conditions flooding patterns created by the two creeks across the City problem areas. Additionally, 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) will also be considered. This information will allow for a better understanding of high risk areas and future potential projects.

Related Goal(s)

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

Estimated Study Cost

Cost Potential funding source(s)

Flood Management Evaluation (FME) STUDY

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

Title ID#
Sponsor (note if City or County) Commitment Yes No

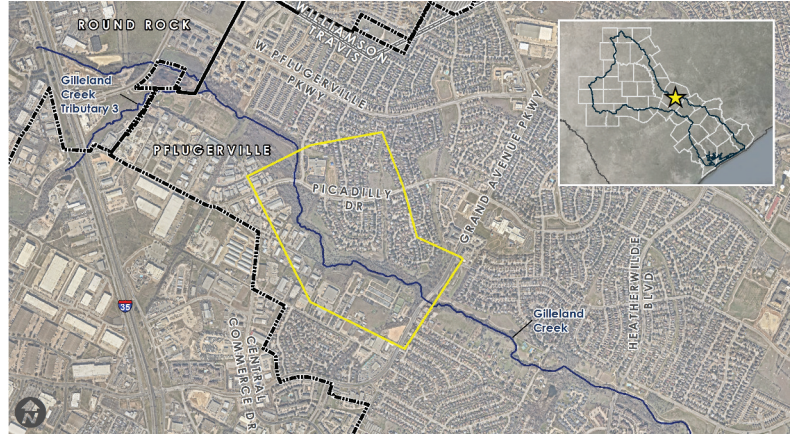
REGION 10

Study Type

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

Problem Area

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



Flood Risk Description

Caldwell Elementary, multiple streets and residential areas experience significant flooding from Gilleland Creek. The proposed design removes Caldwell Elementary from the 100-year floodplain, prevents Fitzgerald Lane from overtopping during the 100-year storm event, and reduces flood risk for 205 homes. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

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

Scope of Study

Conduct a study to evaluate proposed improvements. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), limited field survey and geotechnical investigations, 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). Potential improvements include raising the Fitzgerald Lane profile to an elevation of 777 feet, 1,270 linear feet of channel improvements, and a 2,280-foot berm on the eastern border of Gilleland Creek. The 2022 City of Pflugerville Drainage Master Plan estimated potential costs of improvements totaling approximately \$9.7 million.

Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas. 6.1 Reduce the number of structures and critical facilities that are at high risk 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 Potential funding source(s)

Flood Management Evaluation (FME) STUDY

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

Title ID#
Sponsor (note if City or County) Commitment Yes No

REGION 10

Study Type

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

Problem Area

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



Flood Risk Description

The City of Pflugerville maintains a storm drain system database to map, size and identify existing storm drain infrastructure within city limits. The geospatial data includes detention ponds, drainage structures, stormwater inlets, lines, manholes, and outfalls. There is a need to assess the condition and functionality of the storm drainage system to develop a maintenance and improvement plan.

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

Scope of Study

Conduct a study to assess the condition of the existing storm drain infrastructure within the downtown business district of the City of Pflugerville. The study should utilize closed-circuit television (CCTV) inspection. Inspection will analyze approximately 11,000 feet of storm drain infrastructure. Evaluation will allow the design consultant to develop a storm drain maintenance and improvement plan.

Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas. 6.1 Reduce the number of structures and critical facilities that are at high risk 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 Potential funding source(s)

Flood Management Evaluation (FME) STUDY

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

Title ID#
Sponsor (note if City or County) Commitment Yes No

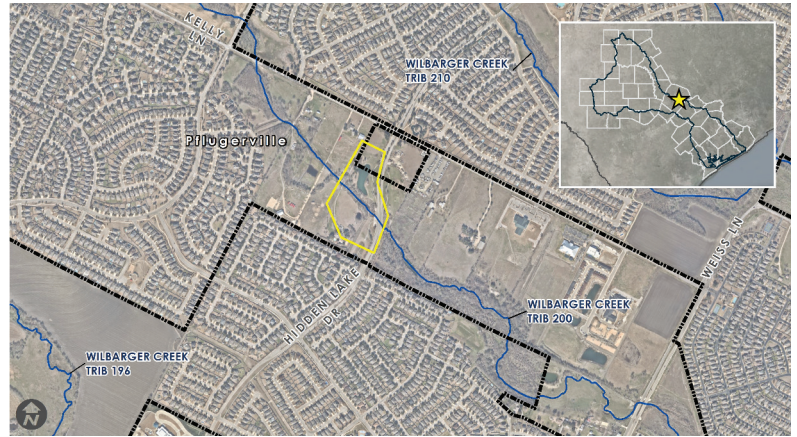
REGION 10

Study Type

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

Problem Area

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



Flood Risk Description

Hidden Lake Drive over Wilbarger Creek Tributary 200 currently floods during the 10-year storm event. The proposed improvement allows Hidden Lake Drive to pass the 100-year event. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

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

Scope of Study

Conduct a study to evaluate proposed improvements. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), limited field survey and geotechnical investigations, 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). Potential improvements include replacing the fourteen 10' x 5' existing culverts with a 200-foot bridge span. Proposed improvements also include raising Hidden Lake Drive to an elevation of 644 feet, 3 feet higher than the current elevation. The 2022 City of Pflugerville Drainage Master Plan estimated potential costs of improvements totaling approximately \$4 million.

Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas. 6.1 Reduce the number of structures and critical facilities that are at high risk 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 Potential funding source(s)

Flood Management Evaluation (FME) STUDY

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

Title ID#
Sponsor (note if City or County) Commitment Yes No

REGION 10

Study Type

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

Problem Area

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



Flood Risk Description

Kennemer Drive over Wilbarger Creek Tributary 200 currently floods during the 5-year storm event. The proposed improvement allows Kennemer Drive to pass the 10-year event and significantly reduces the flooding depth and flood extents of the 100-year storm event. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

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

Scope of Study

Conduct a study to evaluate proposed improvements. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), limited field survey and geotechnical investigations, 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). Potential improvements include replacing the existing culverts with a 150 foot 3-span bridge and raising the roadway profile by 0.8 feet. Improvements also include widening and stabilizing the channel underneath the bridge. The 2022 City of Pflugerville Drainage Master Plan estimated potential costs of improvements totaling approximately \$3.1 million.

Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas. 6.1 Reduce the number of structures and critical facilities that are at high risk 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 Potential funding source(s)

Flood Management Evaluation (FME) STUDY

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

Title ID#
Sponsor (note if City or County) Commitment Yes No

REGION 10

Study Type

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

Problem Area

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



Flood Risk Description

Multiple streets and residential areas experience flooding from Gilleland Creek. North Heatherwilde Boulevard over Gilleland Creek currently floods during the 50-year storm event. The proposed design allows North Heatherwilde Boulevard to pass the 100-year storm event, reduces flood risk for 8 homes, and relieves flooding on Cactus Blossom Drive. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

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

Scope of Study

Conduct a study to evaluate proposed improvements. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), limited field survey and geotechnical investigations, 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). Potential improvements include extending the North Heatherwilde bridge opening by 80 feet in the southern direction and 500 feet of channel improvements, including channel benching upstream and downstream of the North Heatherwilde Boulevard bridge. The 2022 City of Pflugerville Drainage Master Plan estimated potential costs of improvements totaling approximately \$8.5 million.

Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas. 6.1 Reduce the number of structures and critical facilities that are at high risk 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 Potential funding source(s)

Flood Management Evaluation (FME) STUDY

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

Title ID#
Sponsor (note if City or County) Commitment Yes No

REGION 10

Study Type

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

Problem Area

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



Flood Risk Description

Multiple streets and residential areas experience flooding from Gilleland Creek. Railroad Avenue over Gilleland Creek currently floods during the 2-year storm event. The proposed design allows Railroad to pass the 10-year storm event and reduces flood risk for 16 homes. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

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

Scope of Study

Conduct a study to evaluate proposed improvements. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), limited field survey and geotechnical investigations, 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). Potential improvements include raising Railroad Avenue 5 feet and widening the bridge opening by 220 feet. Proposed improvements also include 1,760 feet of channel improvements including channel benching downstream of Railroad Avenue. The 2022 City of Pflugerville Drainage Master Plan estimated potential costs of improvements totaling approximately \$16.8 million.

Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas. 6.1 Reduce the number of structures and critical facilities that are at high risk 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 Potential funding source(s)

Flood Management Evaluation (FME) STUDY

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

Title ID#
Sponsor (note if City or County) Commitment Yes No

REGION 10

Study Type

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

Problem Area

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



Flood Risk Description

Multiple streets and residential areas experience flooding from Gilleland Creek. Swenson Farms Boulevard over Gilleland Creek currently floods during the 100-year storm event. The proposed design allows Swenson Farms Boulevard to pass the 100-year storm event, reduces flood risk for 10 homes, and relieves flooding on Pfenning Lane. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

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

Scope of Study

Conduct a study to evaluate proposed improvements. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), limited field survey and geotechnical investigations, 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). Potential improvements include extending the bridge opening by 50 feet to the north, 200 linear feet of channel improvements, including channel benching upstream and downstream of Swenson Farms Boulevard, and a 2,000 foot embankment adjacent to Pfenning Lane to contain the floodplain. The 2022 City of Pflugerville Drainage Master Plan estimated potential costs of improvements totaling approximately \$5.2 million.

Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas. 6.1 Reduce the number of structures and critical facilities that are at high risk 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 Potential funding source(s)

Flood Management Evaluation (FME) STUDY

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

Title ID#
Sponsor (note if City or County) Commitment Yes No

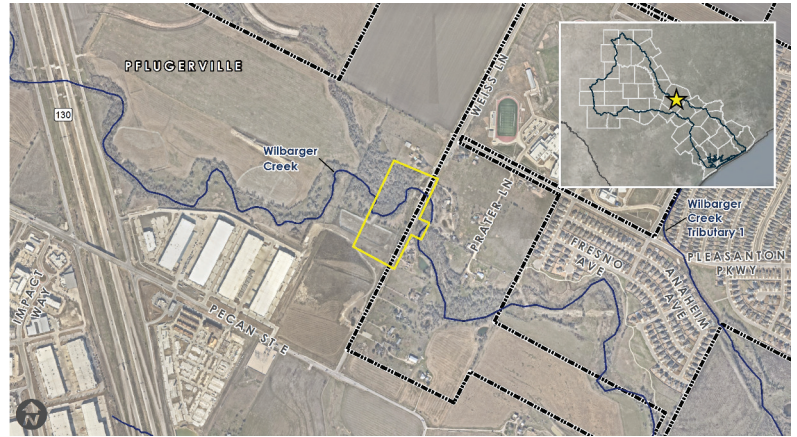
REGION 10

Study Type

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

Problem Area

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



Flood Risk Description

Weiss Lane over Wilbarger Creek currently floods during the 50-year storm event. The proposed improvement allows Weiss Lane to pass the 100-year storm event. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

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

Scope of Study

Conduct a study to evaluate proposed improvements. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), limited field survey and geotechnical investigations, 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). Potential improvements include raising the roadway profile 4 feet to the south of the Weiss Lane bridge, adding six 10'x5' drainage relief culverts under the newly raised profile, and adding a 100' wide bypass channel to allow flow through the culverts. The 2022 City of Pflugerville Drainage Master Plan estimated potential costs of improvements totaling approximately \$1.6 million.

Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas. 6.1 Reduce the number of structures and critical facilities that are at high risk 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 Potential funding source(s)

Flood Management Evaluation (FME) STUDY

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

Title ID#
Sponsor (note if City or County) Commitment Yes No

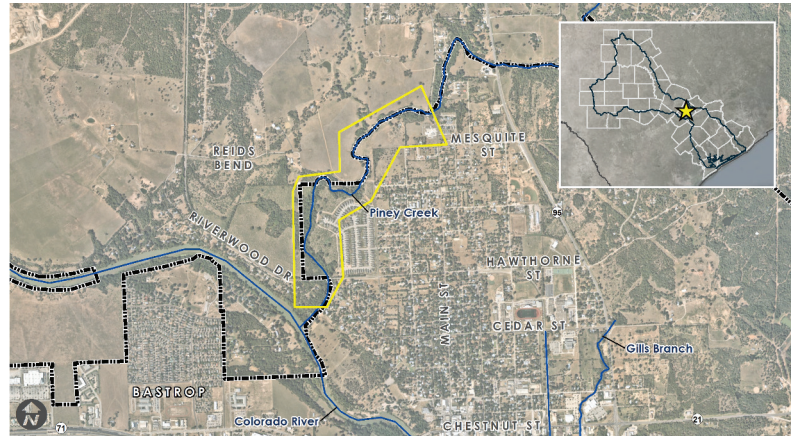
REGION 10

Study Type

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

Problem Area

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



Flood Risk Description

Riverwood Drive becomes flooded by Piney Creek during the 50% ACE storm event. The proposed design prevents Riverwood Drive from overtopping during the 10% ACE storm event and reduces, but does not eliminate, overtopping during the 4% ACE storm event. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

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

Scope of Study

Conduct a study to evaluate proposed improvements. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), limited field survey and geotechnical investigations, 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). Potential improvements include raising Riverwood Drive by approximately 17.25 feet, 375 feet of roadway improvements, replacing the existing culverts with a 210-foot bridge, 8,125 linear feet of channel clearing, and approximately 280 linear feet of channel improvements. The 2023 City of Bastrop Drainage Master Plan estimated potential costs of improvements totaling approximately \$2.3 million.

Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas. 6.1 Reduce the number of structures and critical facilities that are at high risk 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 Potential funding source(s)