

Batch 2C

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Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

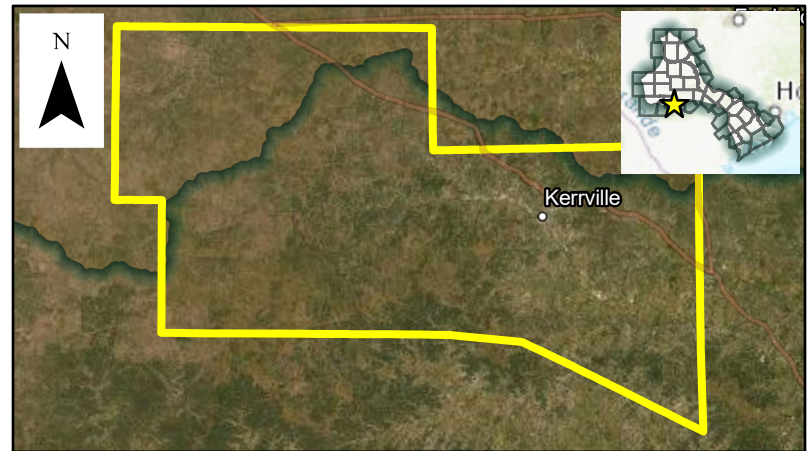
Title **Various Streets - low water crossing warning systems** ID# **101000067**
Sponsor (name of entity) **Kerr (County)** Commitment **Yes**
Technical committee recommend **TBD** RFPG recommend **TBD**

REGION 10

Study Type **Project Planning**

Problem Area

City **Kerrville** County **Real,Kendall,Edwards,Kerr,G**
Watershed Name **Multiple Watersheds**
Tributary(ies) **Unnamed Tributary**
HUC# **12090204,12090206** Stream miles (est.) **TBD**
Drainage area: square miles, est **1,103.03** or acreage, est. **705,941**
Social vulnerability index **-**
Other **Install Flood Early Warning System**



Flood Risk Description

The city has identified multiple (unknown number) roadway/crossing that overtop and where structural improvements are not feasible.

Population at risk **49** Structures at risk **51** Critical facilities at risk **0**
Farm/Ranch land impacted (acres) **10,644** Roadway(s) impacted (miles) **2.14**

Scope of Study

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

Related Goal(s)

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

Estimated Study Cost

Cost **\$50,000** Potential funding source(s) **-**

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

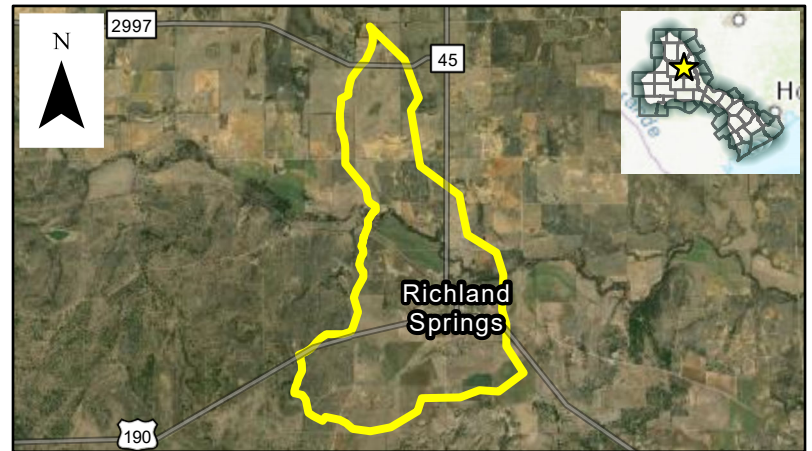
Title **Hooten Holler in Richland Springs** ID# **101000078**
Sponsor (name of entity) **San Saba (County)** Commitment **Yes**
Technical committee recommend **TBD** RFPG recommend **TBD**

REGION 10

Study Type **Other**

Problem Area

City **Richland Springs** County **San Saba**
Watershed Name **Lower Richland Springs Creek**
Tributary(ies) **Richland Springs Creek**
HUC# **12090109,12090106** Stream miles (est.) **TBD**
Drainage area: square miles, est **5.44** or acreage, est. **3,479**
Social vulnerability index **0.51**
Other **Watershed Study**



Flood Risk Description

The area has multiple local drainage problems and portions of the region are at risk of flooding. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

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

Scope of Study

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

Related Goal(s)

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

Estimated Study Cost

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

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

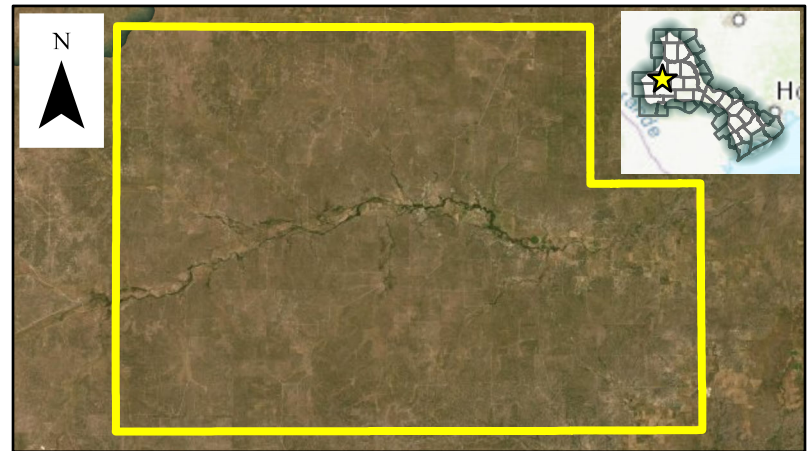
Title ID#
Sponsor (name of entity) Commitment
Technical committee recommend RFPG recommend

REGION 10

Study Type

Problem Area

City County
Watershed Name
Tributary(ies)
HUC# Stream miles (est.)
Drainage area: square miles, est. or acreage, est.
Social vulnerability index
Other



Flood Risk Description

The existing floodplain maps are outdated and do not represent the structures at risk, the areas that have experienced flood damages and channel erosion.

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

Scope of Study

The flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to identify priority flood risk areas.

Related Goal(s)

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

Estimated Study Cost

Cost Potential funding source(s)

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

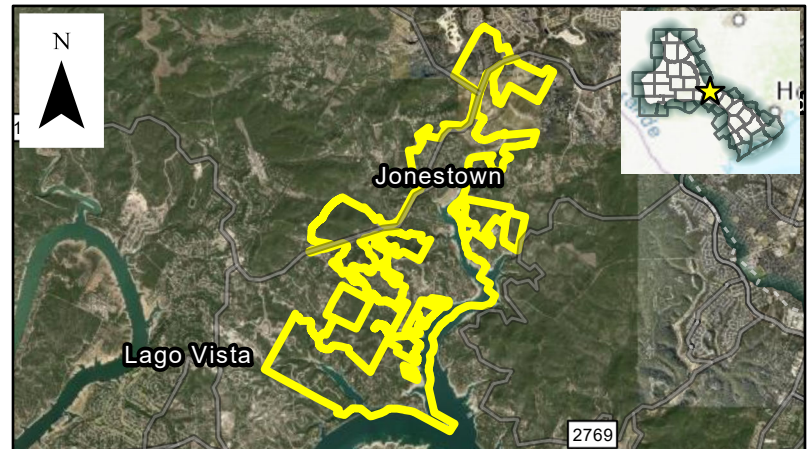
Title ID#
Sponsor (name of entity) Commitment
Technical committee recommend RFPG recommend

REGION 10

Study Type

Problem Area

City County
Watershed Name
Tributary(ies)
HUC# Stream miles (est.)
Drainage area: square miles, est. or acreage, est.
Social vulnerability index
Other



Flood Risk Description

The City has multiple local drainage problems and portions of the City are at risk of flooding. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

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

Scope of Study

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

Related Goal(s)

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

Estimated Study Cost

Cost Potential funding source(s)

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

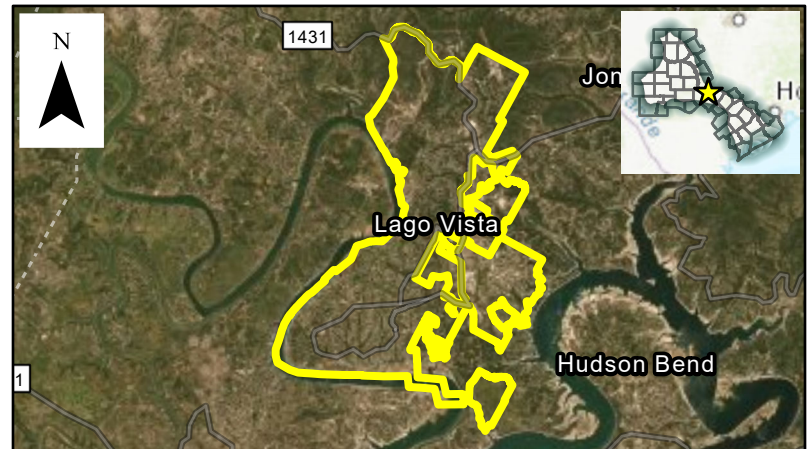
Title **Citywide Drainage Study** ID# **101000082**
Sponsor (name of entity) **Lago Vista (Municipality)** Commitment **Yes**
Technical committee recommend **TBD** RFPG recommend **TBD**

REGION 10

Study Type **Watershed Planning**

Problem Area

City **Lago Vista** County **Travis**
Watershed Name **Bee Creek - Lake Travis, Hurst Creek - Lake Travis**
Tributary(ies) **Unnamed Tributary**
HUC# **12090205** Stream miles (est.) **TBD**
Drainage area: square miles, est **15.51** or acreage, est. **9,926**
Social vulnerability index **0.15**
Other **Watershed Study**



Flood Risk Description

The City has multiple local drainage problems and portions of the City are at risk of flooding. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk **813** Structures at risk **542** Critical facilities at risk **0**
Farm/Ranch land impacted (acres) **658** Roadway(s) impacted (miles) **10.48**

Scope of Study

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

Related Goal(s)

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

Estimated Study Cost

Cost **\$250,000** Potential funding source(s) **-**

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title **Bee Creek Drainage Improvements** ID# **101000084**
Sponsor (name of entity) **West Lake Hills (Municipality)** Commitment **Yes**
Technical committee recommend **TBD** RFPG recommend **TBD**

REGION 10

Study Type **Other**

Problem Area

City **West Lake Hills** County **Travis**
Watershed Name **Lake Austin - Town Lake**
Tributary(ies) **Little Bee Creek**
HUC# **12090205** Stream miles (est.) **1.25**
Drainage area: square miles, est **1.06** or acreage, est. **677**
Social vulnerability index **0.15**
Other **Channel Improvements**



Flood Risk Description

The existing channel and road crossings are undersized resulting in localized erosion as well as flood risk to houses along Yaupon Valley Road and Laurel Valley Road. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk **25** Structures at risk **14** Critical facilities at risk **0**
Farm/Ranch land impacted (acres) **18** Roadway(s) impacted (miles) **0.47**

Scope of Study

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

Related Goal(s)

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

Estimated Study Cost

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

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title ID#
Sponsor (name of entity) Commitment
Technical committee recommend RFPG recommend

REGION 10

Study Type

Problem Area

City County
Watershed Name
Tributary(ies)
HUC# Stream miles (est.)
Drainage area: square miles, est. or acreage, est.
Social vulnerability index
Other



Flood Risk Description

The City has multiple local drainage problems and portions of the City are at risk of flooding. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

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

Scope of Study

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

Related Goal(s)

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

Estimated Study Cost

Cost Potential funding source(s)

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

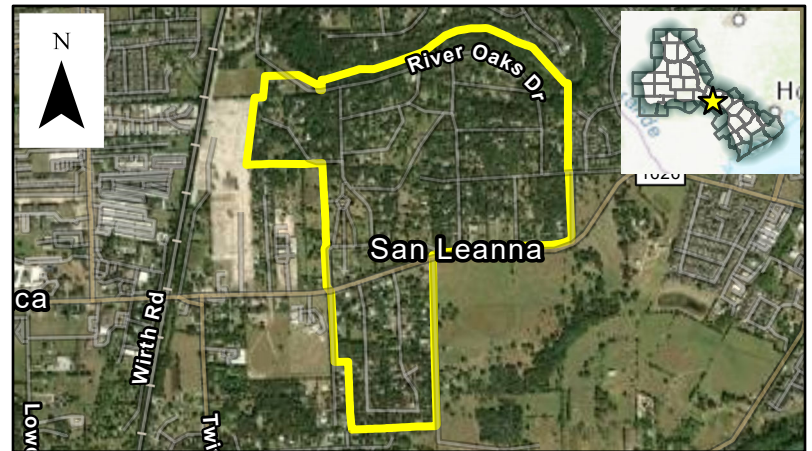
Title ID#
Sponsor (name of entity) Commitment
Technical committee recommend RFPG recommend

REGION 10

Study Type

Problem Area

City County
Watershed Name
Tributary(ies)
HUC# Stream miles (est.)
Drainage area: square miles, est. or acreage, est.
Social vulnerability index
Other



Flood Risk Description

The watershed has undersized infrastructure including the creek, bridges/culverts, and the associated drainage system. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

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

Scope of Study

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

Related Goal(s)

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

Estimated Study Cost

Cost Potential funding source(s)

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

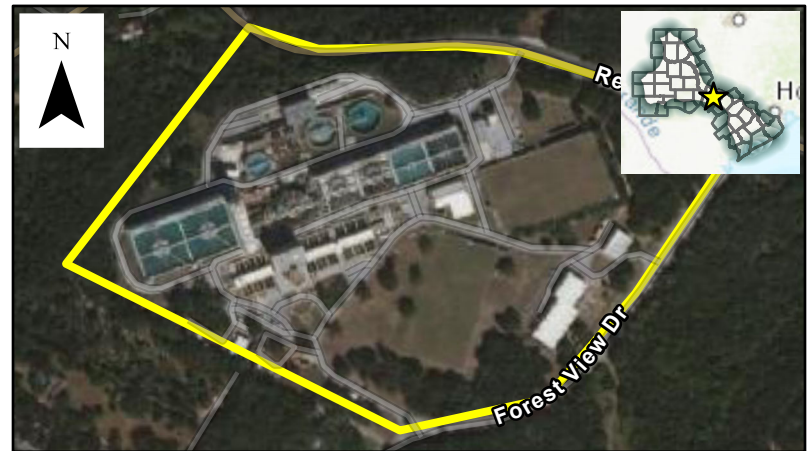
Title ID#
Sponsor (name of entity) Commitment
Technical committee recommend RFPG recommend

REGION 10

Study Type

Problem Area

City County
Watershed Name
Tributary(ies)
HUC# Stream miles (est.)
Drainage area: square miles, est. or acreage, est.
Social vulnerability index
Other



Flood Risk Description

The city has identified the need to install a warning system for the plant due to potential flooding of Little Bee Creek

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

Scope of Study

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

Related Goal(s)

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

Estimated Study Cost

Cost Potential funding source(s)

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

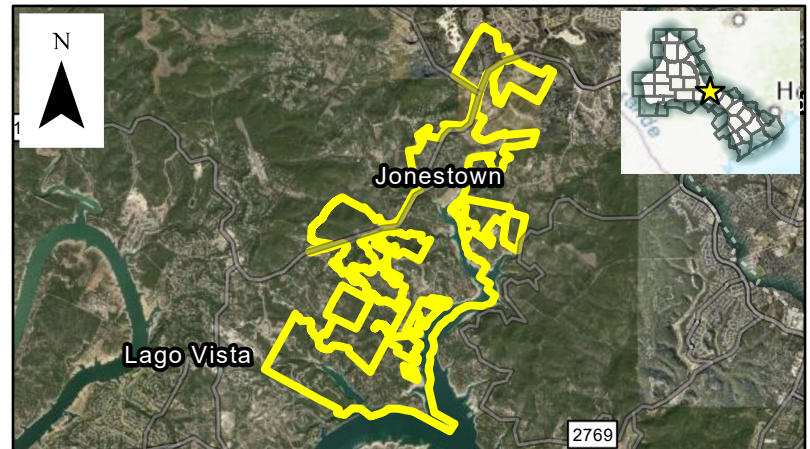
Title **Jonestown 13** ID# **101000150**
Sponsor (name of entity) **Jonestown (Municipality)** Commitment **Yes**
Technical committee recommend **TBD** RFPG recommend **TBD**

REGION 10

Study Type **Other**

Problem Area

City **Jonestown** County **Travis**
Watershed Name **Big Sandy Creek, Hurst Creek - Lake Travis,**
Tributary(ies) **Big Sandy Creek**
HUC# **12090205** Stream miles (est.) **TBD**
Drainage area: square miles, est **7.55** or acreage, est. **4,832**
Social vulnerability index **0.15**
Other **Install Flood Early Warning System**



Flood Risk Description

The city has identified multiple (unknown number) roadway/crossings that overtop and where structural improvements are not feasible.

Population at risk **235** Structures at risk **322** Critical facilities at risk **0**
Farm/Ranch land impacted (acres) **423** Roadway(s) impacted (miles) **2.48**

Scope of Study

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

Related Goal(s)

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

Estimated Study Cost

Cost **\$15,000** Potential funding source(s) **-**

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

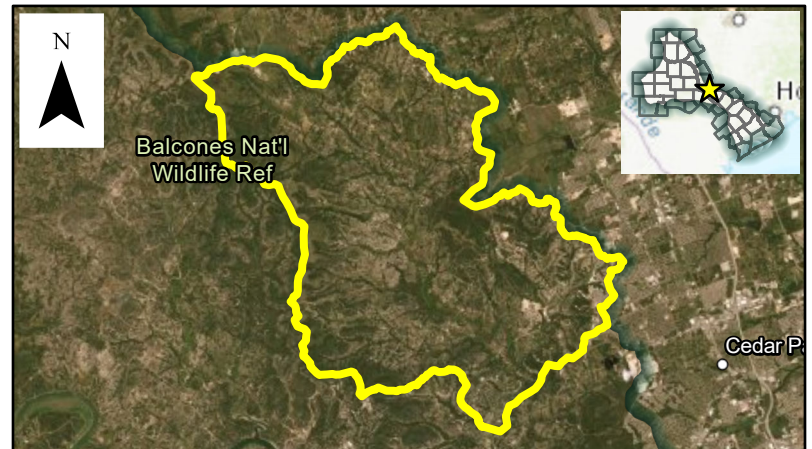
Title **Jones Brothers Park Flooding** ID# **101000163**
Sponsor (name of entity) **Jonestown (Municipality)** Commitment **Yes**
Technical committee recommend **TBD** RFPG recommend **TBD**

REGION 10

Study Type **Watershed Planning**

Problem Area

City **Jonestown** County **Travis,Williamson**
Watershed Name **Big Sandy Creek**
Tributary(ies) **Big Sandy Creek**
HUC# **12090205,12070205** Stream miles (est.) **TBD**
Drainage area: square miles, est **53.07** or acreage, est. **33,962**
Social vulnerability index **-**
Other **Drainage System Improvements**



Flood Risk Description

Existing drainage system is undersized and the area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk **290** Structures at risk **297** Critical facilities at risk **0**
Farm/Ranch land impacted (acres) **1,595** Roadway(s) impacted (miles) **3.91**

Scope of Study

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

Related Goal(s)

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

Estimated Study Cost

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

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title ID#
Sponsor (name of entity) Commitment
Technical committee recommend RFPG recommend

REGION 10

Study Type

Problem Area

City County
Watershed Name
Tributary(ies)
HUC# Stream miles (est.)
Drainage area: square miles, est. or acreage, est.
Social vulnerability index
Other



Flood Risk Description

The existing crossing is undersized and overtops. The proposed improvements include upsizing existing culverts in flood prone areas.

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

Scope of Study

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

Related Goal(s)

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

Estimated Study Cost

Cost Potential funding source(s)

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title Pecan St ID# 101000100
Sponsor (name of entity) El Campo (Municipality) Commitment Yes
Technical committee recommend TBD RFPG recommend TBD

REGION 10

Study Type Project Planning

Problem Area

City El Campo County Wharton
Watershed Name Tres Palacios River - Frontal Tres Palacios Bay
Tributary(ies) Unnamed Tributary
HUC# 12100401 Stream miles (est.) TBD
Drainage area: square miles, est 0.00 or acreage, est. 3
Social vulnerability index 0.81
Other Drainage System Improvements



Flood Risk Description

The existing storm drain system is undersized and the area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

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

Scope of Study

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

Related Goal(s)

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

Estimated Study Cost

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

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

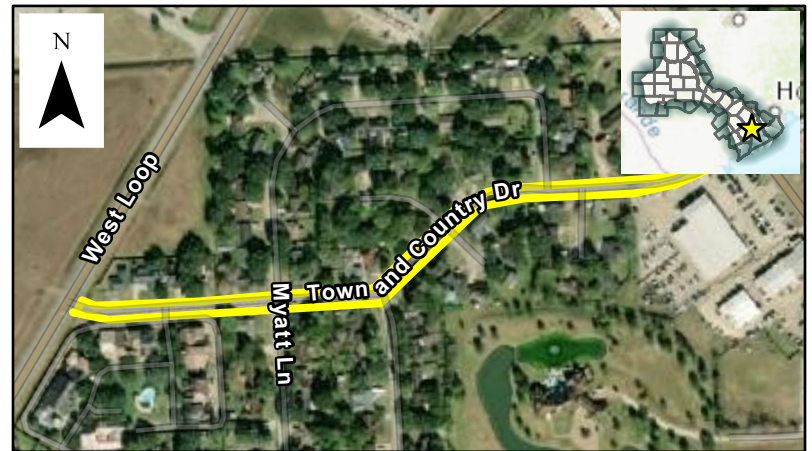
Title ID#
Sponsor (name of entity) Commitment
Technical committee recommend RFPG recommend

REGION 10

Study Type

Problem Area

City County
Watershed Name
Tributary(ies)
HUC# Stream miles (est.)
Drainage area: square miles, est. or acreage, est.
Social vulnerability index
Other



Flood Risk Description

The existing storm drain system is undersized and the area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

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

Scope of Study

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

Related Goal(s)

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

Estimated Study Cost

Cost Potential funding source(s)

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

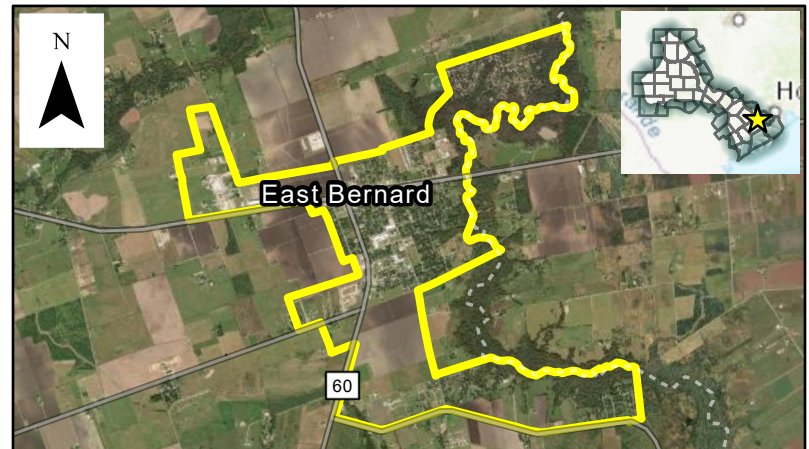
Title ID#
Sponsor (name of entity) Commitment
Technical committee recommend RFPG recommend

REGION 10

Study Type

Problem Area

City County
Watershed Name
Tributary(ies)
HUC# Stream miles (est.)
Drainage area: square miles, est. or acreage, est.
Social vulnerability index
Other



Flood Risk Description

The existing floodplain maps are outdated and do not represent the structures at risk, the areas that have experienced flood damages and channel erosion.

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

Scope of Study

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

Related Goal(s)

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

Estimated Study Cost

Cost Potential funding source(s)