APPENDIX C

Fact Sheets

Flood Mitigation

Projects

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP
REGION 10

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP
REGION 10

Title: Alum Creek - Cardinal Drive Improvements ID#: 103000001

Sponsor (note if City or County): Bastrop (County) Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ✓ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ☐ Flood warning system/gauges

Other

Problem Area

City: N/A County: Bastrop

Watershed name(s): Alum Creek

Tributary(ies): Alum Creek

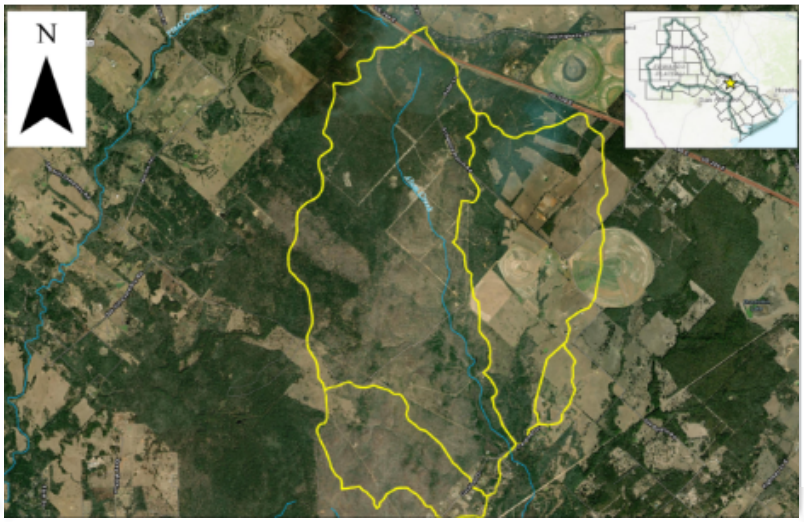
HUC#(s): 12090301 Stream miles (est.): 0.25

Drainage area: square miles, est: 4.53 or acreage, est:

Social Vulnerability Index (SVI): 0.36

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

Other



Flood Risk Description

The crossing on Alum Creek at Cardinal Drive and the secondary culvert located about 250 feet west of the crossing are located in a residential area north of Highway 21. Hydraulic analysis shows the roadway overtopped by a depth of 1.1 feet during the 2-year event and 3.7 feet during the 100-year event.

Proposed level-of-service: 5-year Status: Preliminary engineering study is complete Atlas 14 rainfall used: Yes

Project Description

The proposed improvements include installation of four 4'x2' box culverts at the primary crossing, two 4'x3' box culverts at the secondary culvert, and approximately 310-ft of roadway improvements.

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 Project Cost

Capital cost: $545,000 Ongoing O&M costs: TBD Cost/benefit analysis: 0.13

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Alum Creek - Cardinal Drive Improvements (Tributary 11) ID#: 103000002

Sponsor (note if City or County): Bastrop (County) Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ✓ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ☐ Flood warning system/gauges

Other:

Problem Area

City: N/A County: Bastrop

Watershed name(s): Alum Creek

Tributary(ies): Tributary 11

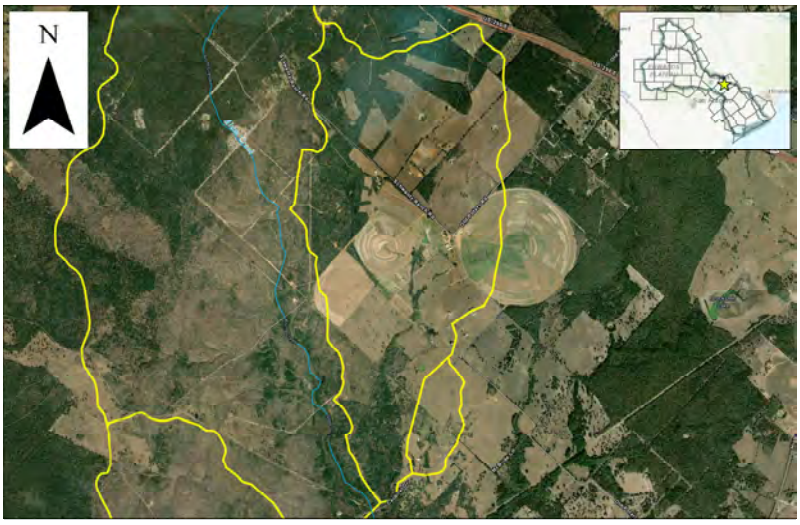
HUC#(s): 12090301 Stream miles (est.): 0.25

Drainage area: square miles, est: 2.44 or acreage, est:

Social Vulnerability Index (SVI): 0.26

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

Other:



Flood Risk Description

The crossing on Cardinal Drive on Alum Creek Tributary 11 is approximately 600 feet east of the Cardinal Drive crossing on Alum Creek. Hydraulic analysis shows the overtopping of Cardinal Drive to a depth of almost 1.0 feet during the 2-year event and 2.9 feet during the 100-year event.

Proposed level-of-service: 10-yr Status: Preliminary engineering report complete Atlas 14 rainfall used: Yes

Project Description

The proposed improvements include installation of five 7'x6' box culverts and approximately 360-ft of roadway improvements.

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 Project Cost

Capital cost: $719,000 Ongoing O&M costs: TBD Cost/benefit analysis: 0.47

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Alum Creek - Cardinal Drive Improvements (Tributary 87) ID#: 103000003

Sponsor (note if City or County): Bastrop (County) Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ✓ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ☐ Flood warning system/gauges

Other:

Problem Area

City: N/A County: Bastrop

Watershed name(s): Alum Creek

Tributary(ies): Tributary 87

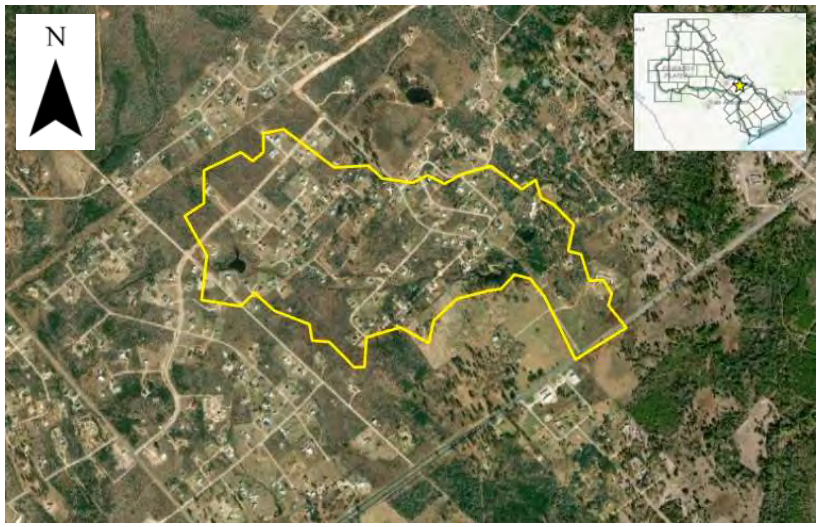
HUC#(s): 12090301 Stream miles (est.): 0.25

Drainage area: square miles, est: 0.45 or acreage, est:

Social Vulnerability Index (SVI): 0.26

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

Other:



Flood Risk Description

The crossing on Cardinal Drive on Alum Creek Tributary 87 is approximately 1,500 feet off Highway 21 in a residential area. Hydraulic analysis shows the overtopping of Cardinal Drive to a depth of almost 0.2 feet during the 2-year event and 1.9 feet during the 100-year event.

Proposed level-of-service: 100-yr Status: Preliminary engineering report complete Atlas 14 rainfall used: Yes

Project Description

The proposed improvements include installation of three 8'x6' box culverts and approximately 100-ft of roadway improvements.

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 Project Cost

Capital cost: $352,000 Ongoing O&M costs: TBD Cost/benefit analysis: 0.05

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Alum Creek - Ponderosa Loop Improvements ID#: 103000004

Sponsor (note if City or County): Bastrop (County) Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ✓ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ☐ Flood warning system/gauges

Other:

Problem Area

City: N/A County: Bastrop

Watershed name(s): Alum Creek

Tributary(ies): Tributary 8

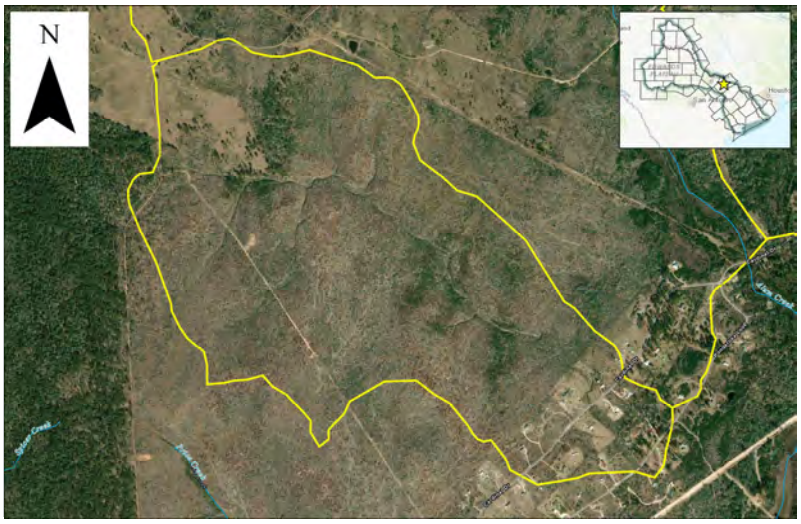
HUC#(s): 12090301 Stream miles (est.): 0.25

Drainage area: square miles, est: 0.96 or acreage, est:

Social Vulnerability Index (SVI): 0.26

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

Other:



Flood Risk Description

The crossing on Ponderosa Loop on Alum Creek Tributary 8 is in a residential area north of Highway 21. Hydraulic analysis shows the overtopping of Ponderosa Loop to a depth of almost 0.6 feet during the 2-year event and 2.7 feet during the 100-year event.

Proposed level-of-service: 10-yr Status: Preliminary engineering report complete Atlas 14 rainfall used: Yes

Project Description

The proposed improvements include installation of three 8'x5' box culverts and approximately 190-ft of roadway improvements.

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 Project Cost

Capital cost: $431,000 Ongoing O&M costs: TBD Cost/benefit analysis: 0.01

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Gills Branch Flood Mitigation Improvements | ID#: 103000005

Sponsor (note if City or County): Bastrop (Municipality) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ✓ Channel modification ✓ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ☐ Flood warning system/gauges

Other:

Problem Area

City: Bastrop | County: Bastrop

Watershed name(s): Copperas Creek

Tributary(ies): Gills Branch

HUC#(s): 12090301 | Stream miles (est.): 1.0

Drainage area: square miles, est: 2.96 | or acreage, est:

Social Vulnerability Index (SVI): 0.42

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

Other:

Flood Risk Description

During the Memorial Day Flood of 2015 the City of Bastrop experienced extensive street and property flooding in the historic downtown due to lack of conveyance capacity in Gills Branch. The banks overftopped allowing water to flow through the residential and commercial areas of downtown.

Proposed level-of-service: 100-year | Status: 100% Plans and specifications complete | Atlas 14 rainfall used: Yes

Project Description

Proposed mitigation improvements include approximately 5,050 feet of channel benching from the upstream side of the UPRR bridge to the downstream side of SH 95, channel improvements for approximately 175 feet located just downstream of MLK Drive, increased roadway creek crossing capacity at Pine Street, Chestnut Street, and Farm Street, and landscape walls along portions of the west bank of the creek between the MLK Drive and Farm Street crossings. The County may need additional funding to construct the project.

Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways.

Estimated Project Cost

Capital cost: $6,240,000 | Ongoing O&M costs: TBD | Cost/benefit analysis: 1.15

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: FM 685 Crossing Improvements | ID#: 103000006

Sponsor (note if City or County): Pflugerville (Municipality) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ✓ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ☐ Flood warning system/gauges

Other:

Problem Area

City: Pflugerville | County: Travis

Watershed name(s): Upper Wilbarger Creek

Tributary(ies): Wilbarger Creek

HUC#(s): 12070205, 12090300 | Stream miles (est.): 0.5

Drainage area: square miles, est: 4.47 | or acreage, est:

Social Vulnerability Index (SVI): 0.19

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

Other:

Flood Risk Description

The FM685 crossing is located on Wilbarger Creek near the intersection with E. Pflugerville Parkway. Hydraulic analysis show overtopping of the roadway to a depth of 1.6 feet during the 5-year event and 4.0 feet during the 100-year event.

Proposed level-of-service: 100-year | Status: Preliminary engineering report complete | Atlas 14 rainfall used: Yes

Project Description

The proposed improvements include construction of a 200 foot long bridge and approximately 810 feet of roadway improvements.

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 Project Cost

Capital cost: $7,660,000 | Ongoing O&M costs: TBD | Cost/benefit analysis: 0.10

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: E. Pflugerville Parkway Crossing Improvements | ID#: 103000007

Sponsor (note if City or County): Pflugerville (Municipality) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ✓ Channel modification ✓ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ☐ Flood warning system/gauges

Other:

Problem Area

City: Pflugerville | County: Travis

Watershed name(s): Upper Wilbarger Creek

Tributary(ies): Wilbarger Creek

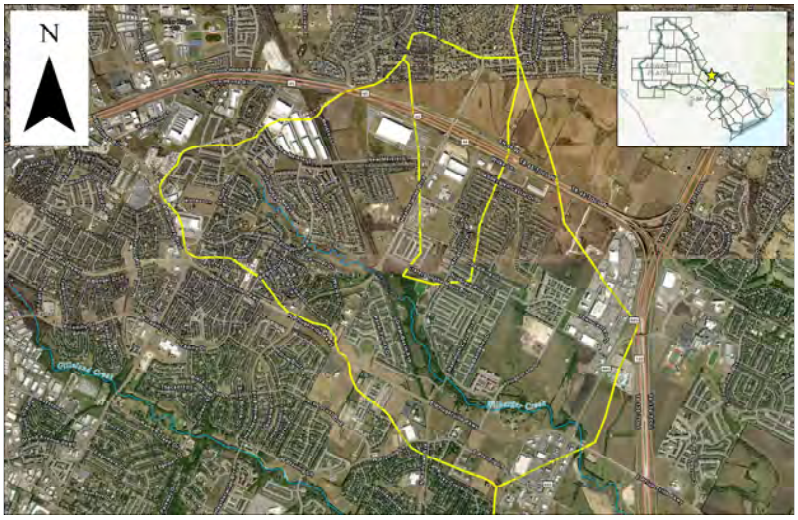
HUC#(s): 12070205, 12090300 | Stream miles (est.): 0.5

Drainage area: square miles, est: 4.47 | or acreage, est:

Social Vulnerability Index (SVI): 0.19

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

Other:



Flood Risk Description

The E. Pflugerville Parkway Crossing is located on Wilbarger Creek near the intersection with FM685. Hydraulic analysis show overtopping of the roadway to a depth of 0.9 feet during the 25-year event and 2.2 feet during the 100-year event.

Proposed level-of-service: 100-year | Status: Preliminary engineering report complete | Atlas 14 rainfall used: Yes

Project Description

The proposed improvements include construction of a 200 foot long bridge and approximately 1,700 feet of channel benching.

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 Project Cost

Capital cost: $2,860,000 | Ongoing O&M costs: TBD | Cost/benefit analysis: 0.17

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Highland Park Subdivision Culvert Improvements | ID#: 103000008

Sponsor (note if City or County): Travis (County) | Commitment: ☑ Yes ☐ No

Technical committee recommend: ☑ Yes ☐ No | RFPG recommend: ☑ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☑ Bridge/culvert ☐ Storm drain ☑ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ☐ Flood warning system/gauges

Other:

Problem Area

City: Pflugerville | County: Travis

Watershed name(s): Upper Wilbarger Creek

Tributary(ies): Wilbarger Creek Tributary 185

HUC#(s): 12070205, 12090300 | Stream miles (est.): 0.25

Drainage area: square miles, est: 0.73 | or acreage, est:

Social Vulnerability Index (SVI): 0.21

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

Other:

Flood Risk Description

There are two houses located just upstream of the Craters of the Moon road crossing that are in the 100-year floodplain. The existing crossing consists of one 10'x4' box culvert and five 8'x4' box culverts at a secondary crossing. The roadway is currently overtopped to a depth of 1.7 feet during the 50-year event.

Proposed level-of-service: 100-year | Status: Preliminary engineering report complete | Atlas 14 rainfall used: Yes

Project Description

The proposed improvements include construction of two additional 8'x4' box culverts and a 150 foot earthen berm.

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 Project Cost

Capital cost: $533,000 | Ongoing O&M costs: TBD | Cost/benefit analysis: 0.30

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Cele Road Crossing Improvements | ID#: 103000009

Sponsor (note if City or County): Travis (County) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ✓ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ☐ Flood warning system/gauges

Other:

Problem Area

City: N/A | County: Travis

Watershed name(s): Upper Wilbarger Creek

Tributary(ies): Wilbarger Creek Tributary 210

HUC#(s): 12070205, 12090300 | Stream miles (est.): 1.0

Drainage area: square miles, est: 4.32 | or acreage, est:

Social Vulnerability Index (SVI): 0.02

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

Other:

Flood Risk Description

The crossing is located north of the Reserve at Westcreek Subdivision and is overtopped to a depth of almost 0.9 feet during the 2-year event and 3.1 feet during the 100-year event.

Proposed level-of-service: 100-year | Status: Preliminary engineering report complete | Atlas 14 rainfall used: Yes

Project Description

The proposed improvements include construction of a 200 foot bridge and approximately 1,160 feet of roadway improvements.

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 Project Cost

Capital cost: $3,970,000 | Ongoing O&M costs: TBD | Cost/benefit analysis: 0.02

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Cameron Road Crossing Improvements | ID#: 103000011

Sponsor (note if City or County): Travis (County) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ✓ Channel modification ✓ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ☐ Flood warning system/gauges

Other:

Problem Area

City: N/A | County: Travis

Watershed name(s): Upper Wilbarger Creek

Tributary(ies): Wilbarger Creek

HUC#(s): 12070205, 12090300 | Stream miles (est.): 0.5

Drainage area: square miles, est: 23.83 | or acreage, est:

Social Vulnerability Index (SVI): 0.13

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

Other:

Flood Risk Description

The crossing is located about 2.5 miles east of SH130. The road is overtopped to a depth of almost 2.8 feet during the 2-year event and 10.2 feet during the 100-year event.

Proposed level-of-service: 100-year | Status: Preliminary engineering report complete | Atlas 14 rainfall used: Yes

Project Description

The proposed improvements include construction of a 300 foot bridge, approximately 1,520 feet of roadway improvements, and approximately 280 feet of channel grading.

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 Project Cost

Capital cost: $2,860,000 | Ongoing O&M costs: TBD | Cost/benefit analysis: 0.07

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Sandy Creek/Pecan Park Areas Buyout | ID#: 103000023

Sponsor (note if City or County): Jonestown (Municipality) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

✓ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ☐ Flood warning system/gauges

Other:

Problem Area

City: Jonestown | County: Travis

Watershed name(s): Hurst Creek

Tributary(ies): Big Sandy Creek

HUC#(s): 12090205 | Stream miles (est.): N/A

Drainage area: square miles, est: N/A | or acreage, est:

Social Vulnerability Index (SVI): 0.18

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

Other:

Flood Risk Description

There is at least one flood prone property located within the floodway on Big Sandy Creek near the Pecan Park area.

Proposed level-of-service: N/A | Status: N/A | Atlas 14 rainfall used: Proxy (500-year)

Project Description

Buyout the repetitive loss residential structure.

Related Goal(s)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 5.2 Increase the acreage of publicly protected open space to reduce future impacts of flooding.

Estimated Project Cost

Capital cost: $1,050,000 | Ongoing O&M costs: | Cost/benefit analysis: 1.05

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Onion Creek Structure Elevation | ID#: 103000025

Sponsor (note if City or County): Travis (County) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ☐ Flood warning system/gauges

Other: Structure elevtation

Problem Area

City: N/A | County: Travis

Watershed name(s): Mustang Branch

Tributary(ies): Onion Creek

HUC#(s): 12090205 | Stream miles (est.): N/A

Drainage area: square miles, est: N/A | or acreage, est:

Social Vulnerability Index (SVI): 0.34

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

Other:

Flood Risk Description

There are 15 houses located within the 100-year floodplain at Arroyo Doble and Onion Creek Meadows at risk for repetitive loss.

Proposed level-of-service: N/A | Status: N/A | Atlas 14 rainfall used: Proxy (500-year)

Project Description

Elevate the repetitive loss residential structures.

Related Goal(s)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation.

Estimated Project Cost

Capital cost: $2,800,000 | Ongoing O&M costs: $0 | Cost/benefit analysis: 1.00

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Bluff Springs Elevation | ID#: 103000026

Sponsor (note if City or County): Travis (County) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ☐ Flood warning system/gauges

Other: Structure elevation

Problem Area

City: N/A | County: Travis

Watershed name(s): Williamson Creek

Tributary(ies): Onion Creek

HUC#(s): 12090205 | Stream miles (est.): N/A

Drainage area: square miles, est: N/A | or acreage, est:

Social Vulnerability Index (SVI): 0.53

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

Other:

Flood Risk Description

There are 39 houses located within the 100-year floodplain of Onion Creek at risk for repetitive loss.

Proposed level-of-service: N/A | Status: N/A | Atlas 14 rainfall used: Proxy (500-year)

Project Description

Elevating the repetitive loss residential structures was the recommended solution.

Related Goal(s)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation.

Estimated Project Cost

Capital cost: $6,980,000 | Ongoing O&M costs: $0 | Cost/benefit analysis: 1.03

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Onion Creek Meadows Elevation | ID#: 103000027

Sponsor (note if City or County): Travis (County) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ☐ Flood warning system/gauges

Other: Structure elevation

Problem Area

City: N/A | County: Travis

Watershed name(s): Mustang Branch

Tributary(ies): Onion Creek

HUC#(s): 12090205 | Stream miles (est.): N/A

Drainage area: square miles, est: N/A | or acreage, est:

Social Vulnerability Index (SVI): 0.34

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

Other:

Flood Risk Description

There are 6 houses at risk for repetitive losses during the 100-year event due to lack of local storm drain capacity.

Proposed level-of-service: N/A | Status: N/A | Atlas 14 rainfall used: Proxy (500-year)

Project Description

Elevating the repetitive loss residential structures was the recommended solution.

Related Goal(s)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation.

Estimated Project Cost

Capital cost: $894,000 | Ongoing O&M costs: $0 | Cost/benefit analysis: 1.51

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: South Austin Regional WWTP / Sand Hill Energy Center Flood Reduction | ID#: 103000031

Sponsor (note if City or County): Austin (Municipality) | Commitment: ☑ Yes ☐ No

Technical committee recommend: ☑ Yes ☐ No | RFPG recommend: ☑ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ☑ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ☐ Flood warning system/gauges

Other:

Problem Area

City: Austin | County: Travis

Watershed name(s): Onion Creek

Tributary(ies): Onion Creek Overflow

HUC#(s): 12090205 | Stream miles (est.): N/A

Drainage area: square miles, est: 0.38 | or acreage, est:

Social Vulnerability Index (SVI): 0.54

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

Other: The City's critical infrastructure at risk of flooding from over topping existing levees and damage from massive overflows traveling from Onion Creek to the Colorado River.

Flood Risk Description

The South Austin Regional Wastewater Treatment Plant (SAR WWTP) and the Sand Hill Energy Center (SHEC) electric generating and distributing facilities are at risk of 1% ACE (100-year) flooding with the incorporation of Atlas 14 rainfall. Based on staff experience in previous flood events, the facilities are at risk of losing access and receiving flood damage that could cause catastrophic service interruptions. These interruptions, including power loss, would likely result in uncontrolled raw sewage discharge from the WWTP, sewer collection system backups, loss of power in residents' homes and under a worst-case scenario, sewage backups flooding into residents' homes. Since the WWTP facility serves approximately half of Austin (557,807 residents), the project benefits single-family and multi-family residences and businesses.

Proposed level-of-service: 100-year | Status: 30% design is ongoing | Atlas 14 rainfall used: Yes

Project Description

This project includes the addition of a levee system to protect the City's infrastructure from overland flows. The levee system will be comprised of a new levee from the SH 130 right-of-way to a floodwall that increases the elevation of the existing SAR WWTP berm. This project also consists of benching to create an overflow swale to improve the hydraulics and increase the overflow storage of Onion Creek. Due to downstream hydraulic effects, it is proposed to further extend the existing levee around the northeast

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 Project Cost

Capital cost: $115,000,000 | Ongoing O&M costs: TBD | Cost/benefit analysis: 7.21

Potential funding source(s): HMGP, BRIC, FIF, GLO CDBG, BCA

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Walnut Creek Wastewater Treatment Plant Flood Wall | ID#: 103000032

Sponsor (note if City or County): Austin (Municipality) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ✓ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ☐ Flood warning system/gauges

Other:

Problem Area

City: Austin | County: Travis

Watershed name(s): Walnut Creek

Tributary(ies): Walnut Creek

HUC#(s): 12090205 | Stream miles (est.): N/A

Drainage area: square miles, est: 0.19 | or acreage, est:

Social Vulnerability Index (SVI): 0.85

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

Other:

Flood Risk Description

The Walnut Creek WWTP has been constructed in various stages dating back to 1977. The preliminary engineering study for the current expansion reevaluated potential impacts from the Walnut Creek and Little Walnut Creek drainage basins. The study indicates the plant is at risk of flooding with depths ranging from 1 to 9 feet. Potential damages include electrical equipment and control panels, structural flooding, and mechanical facilities such as filters, clarifiers, and pump stations/equipment. The facility is at risk of flood damage that could cause a catastrophic service interruption which would likely result in uncontrolled raw sewage discharge from the WWTP, sewer collection system backups, and, under a worst case scenario, sewage backups flooding into residents homes. Since the facility serves approximately half of Austin residents, the project benefits all.

Proposed level-of-service: 200-year | Status: Preliminary engineering is complete | Atlas 14 rainfall used: Yes

Project Description

The preliminary engineering determined a flood protection wall around the perimeter of the plant is the most viable and cost-effective method to protect the plant. The preliminary design includes a combination of cast-in-place concrete walls (supported by drilled piers), sheet pile walls, and access gates.

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 Project Cost

Capital cost: $31,462,000 | Ongoing O&M costs: TBD | Cost/benefit analysis: 8.37

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: S Bowie Low Water Crossing - Flood Warning System ID#: 103000033

Sponsor (note if City or County): Fredericksburg (Municipality) Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ✓ Flood warning system/gauges

Other:

Problem Area

City: Fredericksburg County: Gillespie

Watershed name(s): Barons Creek

Tributary(ies): Unnamed Tributary

HUC#(s): 12090201, 12090200 Stream miles (est.): TBD

Drainage area: square miles, est: 17.67 or acreage, est:

Social Vulnerability Index (SVI): 0.38

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

Other:

Flood Risk Description

S. Bowie Street overtops by approximately 9.5 feet during the 100-year event. The city has identified this crossing as a candidate for a flood early warning system because improving the roadway/crossing is not feasible.

Proposed level-of-service: N/A Status: N/A Atlas 14 rainfall used: Yes

Project Description

Evaluate the type of flood early warning system (flashers, barricades, signage) and communication system requirements, select and install the flood warning system.

Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.

Estimated Project Cost

Capital cost: $28,000 Ongoing O&M costs: $2,500 Cost/benefit analysis: 0

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: 8 Low Water Crossings - Flood Warning System | ID#: 103000034

Sponsor (note if City or County): Marble Falls (Municipality) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ✓ Flood warning system/gauges

Other:

Problem Area

City: Marble Falls | County: Burnet

Watershed name(s): Backbone Creek, Hamilton Creek - Lake Travis
Lake Marble Falls, Flatrock Creek - Lake Travis

Tributary(ies): Unnamed Tributary

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

Drainage area: square miles, est: 15.77 | or acreage, est: 10,095

Social Vulnerability Index (SVI): 0.67
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other: Install Flood Early Warning System

Flood Risk Description

The city has identified eight (8) roadway/crossings that overtop and where structural improvements are not feasible.

Proposed level-of-service: N/A | Status: N/A | Atlas 14 rainfall used: Yes

Project Description

Evaluate the type of flood early warning system (flashers, barricades, signage) and communication system requirements, select and install the flood warning system.

Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.

Estimated Project Cost

Capital cost: $220,000 | Ongoing O&M costs: $20,000 | Cost/benefit analysis: 0

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Lady Bird Golf Course Low Water Crossing - Flood Warning System ID#: 103000037

Sponsor (note if City or County): Fredericksburg (Municipality) Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ✓ Flood warning system/gauges

Other:

Problem Area

City: Fredericksburg County: Gillespie

Watershed name(s): Live Oak Creek

Tributary(ies): Live Oak Creek

HUC#(s): 12090206 Stream miles (est.): TBD

Drainage area: square miles, est: 0.00 or acreage, est:

Social Vulnerability Index (SVI): 0.64

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

Other:

Flood Risk Description

Lady Bird Street acts as a small in-channel dam. There is little freeboard and the road overtops frequently. The city has identified this crossing as a candidate for a flood early warning system because improving the roadway/crossing is not feasible.

Proposed level-of-service: N/A Status: N/A Atlas 14 rainfall used: No

Project Description

Evaluate the type of flood early warning system (flashers, barricades, signage) and communication system requirements, select and install the flood warning system.

Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.

Estimated Project Cost

Capital cost: $28,000 Ongoing O&M costs: $2,500 Cost/benefit analysis: 0

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: W Travis Low Water Crossing - Flood Warning System | ID#: 103000038

Sponsor (note if City or County): Fredericksburg (Municipality) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ✓ Flood warning system/gauges

Other:

Problem Area

City: Fredericksburg | County: Gillespie

Watershed name(s): Barons Creek

Tributary(ies): Town Creek

HUC#(s): 12090206 | Stream miles (est.): TBD

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

Social Vulnerability Index (SVI): 0.38

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

Other:

Flood Risk Description

W. Travis Street has an undersized culvert and overtops frequently. The city has identified this crossing as a candidate for a flood early warning system because improving the roadway/crossing is not feasible.

Proposed level-of-service: N/A | Status: N/A | Atlas 14 rainfall used: Yes

Project Description

Evaluate the type of flood early warning system (flashers, barricades, signage) and communication system requirements, select and install the flood warning system.

Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.

Estimated Project Cost

Capital cost: $28,000 | Ongoing O&M costs: $2,500 | Cost/benefit analysis: 0

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Windmill Oaks Subdivision - Flood Warning System | ID#: 103000039

Sponsor (note if City or County): Fredericksburg (Municipality) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ✓ Flood warning system/gauges

Other:

Problem Area

City: Fredericksburg | County: Gillespie

Watershed name(s): Muesebach Creek - Pedernales River

Tributary(ies): Unnamed Tributary

HUC#(s): 12090206 | Stream miles (est.): TBD

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

Social Vulnerability Index (SVI): 0.64

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

Other:

Flood Risk Description

A private detention pond on the north side of Pyka Road combines with local drainage to overtop Pyka Road. Roadway/crossing improvements are not feasible.

Proposed level-of-service: N/A | Status: N/A | Atlas 14 rainfall used: Yes

Project Description

Evaluate the type of flood early warning system (flashers, barricades, signage) and communication system requirements, select and install the flood warning system.

Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.

Estimated Project Cost

Capital cost: $28,000 | Ongoing O&M costs: $2,500 | Cost/benefit analysis: 0

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Red Bud Trail - Flood Warning System | ID#: 103000040

Sponsor (note if City or County): West Lake Hills (Municipality) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ✓ Flood warning system/gauges

Other:

Problem Area

City: West Lake Hills | County: Travis

Watershed name(s): Lake Austin - Town Lake

Tributary(ies): Little Bee Creek

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

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

Social Vulnerability Index (SVI): 0.27

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

Other:

Flood Risk Description

The city has identified the need to install a flood early warning system on Red Bud Trail near the Ulrich Water Treatment Plant.

Proposed level-of-service: N/A | Status: N/A | Atlas 14 rainfall used: Yes

Project Description

Evaluate the type of flood early warning system (flashers, barricades, signage) and communication system requirements, select and install the flood warning system.

Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.

Estimated Project Cost

Capital cost: $28,000 | Ongoing O&M costs: $2,500 | Cost/benefit analysis: 0

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: City of Eagle Lake Water Plant Backup Generator | ID#: 103000041

Sponsor (note if City or County): Eagle Lake (Municipality) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ✓ Flood readiness/resilience ☐ Flood warning system/gauges

Other:

Problem Area

City: Eagle Lake | County: Colorado

Watershed name(s): Marys Branch - Colorado River

Tributary(ies): Unnamed Tributary

HUC#(s): 12090302 | Stream miles (est.): TBD

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

Social Vulnerability Index (SVI): 0.71

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

Other:

Flood Risk Description

The city has identified the need to purchase and install a backup generator for the City of Eagle Lake Water Plant to extend operation during outages for emergency response.

Proposed level-of-service: N/A | Status: N/A | Atlas 14 rainfall used: Yes

Project Description

Purchase and install an emergency generator. Estimate is based on a 900kW generator including all ancillary equipment.

Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.

Estimated Project Cost

Capital cost: $826,000 | Ongoing O&M costs: $7,500 | Cost/benefit analysis: 0

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Beasley City Hall Backup Generator | ID#: 103000042

Sponsor (note if City or County): City of Beasley (Municipality) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ✓ Flood readiness/resilience ☐ Flood warning system/gauges

Other:

Problem Area

City: Burnet | County: Fort Bend

Watershed name(s): Turkey Creek

Tributary(ies): Unnamed Tributary

HUC#(s): 12090401 | Stream miles (est.): TBD

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

Social Vulnerability Index (SVI): 0.48

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

Other:

Flood Risk Description

The city has identified the need to purchase and install a backup generator for City Hall to extend operation during outages for emergency response.

Proposed level-of-service: N/A | Status: N/A | Atlas 14 rainfall used: Yes

Project Description

Purchase and install an emergency generator. Estimate is based on a 25kW generator including all ancillary equipment.

Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.

Estimated Project Cost

Capital cost: $83,000 | Ongoing O&M costs: $2,000 | Cost/benefit analysis: 0

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Beasley City Fire Department Backup Generator | ID#: 103000043

Sponsor (note if City or County): City of Beasley (Municipality) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ✓ Flood readiness/resilience ☐ Flood warning system/gauges

Other:

Problem Area

City: Beasley | County: Fort Bend

Watershed name(s): Turkey Creek

Tributary(ies): Unnamed Tributary

HUC#(s): 12090401 | Stream miles (est.): TBD

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

Social Vulnerability Index (SVI): 0.48

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

Other:

Flood Risk Description

The city has identified the need to purchase and install a backup generator for the City Fire Department to extend operation during outages for emergency response.

Proposed level-of-service: N/A | Status: N/A | Atlas 14 rainfall used: Yes

Project Description

Purchase and install an emergency generator. Estimate is based on a 30kW generator including all ancillary equipment.

Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.

Estimated Project Cost

Capital cost: $83,000 | Ongoing O&M costs: $2,000 | Cost/benefit analysis: 0

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Emergency Management System Backup Generators | ID#: 103000044

Sponsor (note if City or County): City of Edna (Municipality) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ✓ Flood readiness/resilience ☐ Flood warning system/gauges

Other:

Problem Area

City: Edna | County: Jackson

Watershed name(s): Post Oak Branch - Dry Creek

Tributary(ies): Unnamed Tributary

HUC#(s): 12100101 | Stream miles (est.): TBD

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

Social Vulnerability Index (SVI): 0.56

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

Other:

Flood Risk Description

The city has identified the need to purchase and install a 30 kW backup generator for the Emergency Response Building to extend operation during outages.

Proposed level-of-service: N/A | Status: N/A | Atlas 14 rainfall used: Yes

Project Description

Purchase and install an emergency generator. Estimate is based on a 30kW generator including all ancillary equipment.

Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.

Estimated Project Cost

Capital cost: $89,000 | Ongoing O&M costs: $2,000 | Cost/benefit analysis: 0

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: City of Edna Safe Room Backup Generator | ID#: 103000045

Sponsor (note if City or County): City of Edna (Municipality) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ✓ Flood readiness/resilience ☐ Flood warning system/gauges

Other:

Problem Area

City: Edna | County: Jackson

Watershed name(s): Sandy Creek - Navidad River, Post Oak Branc

Tributary(ies): Dry Creek, Post Oak Branch

HUC#(s): 12100101, 12100100 | Stream miles (est.): TBD

Drainage area: square miles, est: 0.0 | or acreage, est:

Social Vulnerability Index (SVI): 0.63

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

Other:

Flood Risk Description

The city has identified the need to purchase and install a 100 kW backup generator for the Triage Center community safe room to extend operation during outages for emergency response.

Proposed level-of-service: N/A | Status: N/A | Atlas 14 rainfall used: Yes

Project Description

Purchase and install an emergency generator. Estimate is based on a 100kW generator including all ancillary equipment.

Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.

Estimated Project Cost

Capital cost: $89,000 | Ongoing O&M costs: $2,000 | Cost/benefit analysis: 0

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: City of Edna Sewer Lift Station Backup Generator | ID#: 103000046

Sponsor (note if City or County): City of Edna (Municipality) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ✓ Flood readiness/resilience ☐ Flood warning system/gauges

Other:

Problem Area

City: Edna | County: Jackson

Watershed name(s): Post Oak Branch - Dry Creek

Tributary(ies): Unnamed Tributary

HUC#(s): 12100101 | Stream miles (est.): TBD

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

Social Vulnerability Index (SVI): 0.63

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

Other:

Flood Risk Description

The city has identified the need to purchase and install a 30 kW backup generator for the City of Eda WWTP to extend operation during outages for emergency response.

Proposed level-of-service: N/A | Status: N/A | Atlas 14 rainfall used: Yes

Project Description

Purchase and install an emergency generator. Estimate is based on a 30kW generator including all ancillary equipment.

Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.

Estimated Project Cost

Capital cost: $89,000 | Ongoing O&M costs: $2,000 | Cost/benefit analysis: 0

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: City of Ganado Sewer Lift Station Backup Generator | ID#: 103000047

Sponsor (note if City or County): City of Ganado (Municipality) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ✓ Flood readiness/resilience ☐ Flood warning system/gauges

Other:

Problem Area

City: Ganado | County: Jackson

Watershed name(s): Devers Creek - Mustang Creek

Tributary(ies): Devers Creek

HUC#(s): 12100102 | Stream miles (est.): TBD

Drainage area: square miles, est: 1.12 | or acreage, est:

Social Vulnerability Index (SVI): 0.51

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

Other:

Flood Risk Description

The city has identified the need to purchase and install a backup generator for the sewer lift station to extend operation during outages for emergency response.

Proposed level-of-service: N/A | Status: N/A | Atlas 14 rainfall used: Yes

Project Description

Purchase and install an emergency generator. Estimate is based on a 30kW generator including all ancillary equipment.

Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.

Estimated Project Cost

Capital cost: $89,000 | Ongoing O&M costs: $2,000 | Cost/benefit analysis: 0

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Jackson County Courthouse Backup Generator | ID#: 103000048

Sponsor (note if City or County): Jackson (County) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ✓ Flood readiness/resilience ☐ Flood warning system/gauges

Other:

Problem Area

City: N/A | County: Jackson

Watershed name(s): Post Oak Branch - Dry Creek

Tributary(ies): Unnamed Tributary

HUC#(s): 12100101 | Stream miles (est.): TBD

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

Social Vulnerability Index (SVI): 0.56

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

Other:

Flood Risk Description

The city has identified the need to purchase and install a backup generator for the Jackson County Sheriff's Office to extend operation during outages for emergency response.

Proposed level-of-service: N/A | Status: N/A | Atlas 14 rainfall used: Yes

Project Description

Purchase and install an emergency generator. Estimate is based on a 30kW generator including all ancillary equipment.

Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.

Estimated Project Cost

Capital cost: $89,000 | Ongoing O&M costs: $2,000 | Cost/benefit analysis: 0

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: City of Edna Hospital Backup Generator | ID#: 103000050

Sponsor (note if City or County): Edna (Municipality) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ✓ Flood readiness/resilience ☐ Flood warning system/gauges

Other:

Problem Area

City: Edna | County: Jackson

Watershed name(s): Post Oak Branch - Dry Creek

Tributary(ies): Unnamed Tributary

HUC#(s): 12100101 | Stream miles (est.): TBD

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

Social Vulnerability Index (SVI): 0.56

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

Other:

Flood Risk Description

The city has identified the need to purchase and install a backup generator for the Jackson County Hospital to extend operation during outages for emergency response.

Proposed level-of-service: N/A | Status: N/A | Atlas 14 rainfall used: Yes

Project Description

Purchase and install an emergency generator. Estimate is based on a 450kW generator including all ancillary equipment.

Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.

Estimated Project Cost

Capital cost: $500,000 | Ongoing O&M costs: $2,000 | Cost/benefit analysis: 0

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Various Streets - Flood Warning System | ID#: 103000051

Sponsor (note if City or County): Menard (Municipality) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ✓ Flood warning system/gauges

Other:

Problem Area

City: Menard | County: Menard

Watershed name(s): Menard Irrigation Company Canal - San Saba Rivier

Tributary(ies): Menard Irrigation Company Canal, San Saba River

HUC#(s): 12090109 | Stream miles (est.): TBD

Drainage area: square miles, est: 2.19 | or acreage, est:

Social Vulnerability Index (SVI): 0.54

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

Other:

Flood Risk Description

The city has identified multiple (10) low water crossings that overtop and where roadway/crossing improvements are not feasible.

Proposed level-of-service: N/A | Status: N/A | Atlas 14 rainfall used: Yes

Project Description

Evaluate the type of flood early warning system (flashers, barricades, signage) and communication system requirements, select and install the flood warning system.

Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.

Estimated Project Cost

Capital cost: $310,000 | Ongoing O&M costs: $25,000 | Cost/benefit analysis: 0

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Jonestown Flood Warning System | ID#: 103000052

Sponsor (note if City or County): Jonestown (Municipality) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ✓ Flood warning system/gauges

Other:

Problem Area

City: Jonestown | County: Travis

Watershed name(s): Big Sandy Creek, Hurst Creek - Lake Travis

Tributary(ies): Big Sandy Creek

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

Drainage area: square miles, est: 7.55 | or acreage, est:

Social Vulnerability Index (SVI): 0.21

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

Other:

Flood Risk Description

East Reed Park Road overtops and roadway/crossing improvements are not feasible.

Proposed level-of-service: N/A | Status: N/A | Atlas 14 rainfall used: Yes

Project Description

Evaluate the type of flood early warning system (flashers, barricades, signage) and communication system requirements, select and install the flood warning system.

Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.

Estimated Project Cost

Capital cost: $54,000 | Ongoing O&M costs: $5,000 | Cost/benefit analysis: 0

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Steiner Ranch WWTP Backup Generator | ID#: 103000053

Sponsor (note if City or County): Briarcliff (Municipality) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ✓ Flood readiness/resilience ☐ Flood warning system/gauges

Other:

Problem Area

City: Briarcliff | County: Travis

Watershed name(s): Austin - Travis Lakes

Tributary(ies): Unnamed Tributary

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

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

Social Vulnerability Index (SVI): 0.12

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

Other:

Flood Risk Description

The city has identified the need to purchase and install a backup generator for the Steiner Ranch Wastewater Treatment Plant to extend operation during outages for emergency response.

Proposed level-of-service: N/A | Status: N/A | Atlas 14 rainfall used: Yes

Project Description

Purchase and install an emergency generator. Estimate is based on a 900kW generator including all ancillary equipment.

Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.

Estimated Project Cost

Capital cost: $809,000 | Ongoing O&M costs: $7,500 | Cost/benefit analysis: 0

Potential funding source(s): TBD

Flood Mitigation Project (FMP)

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Portable Electronic Warning Signs | ID#: 103000054

Sponsor (note if City or County): La Ward (Municipality) | Commitment: ✓ Yes ☐ No

Technical committee recommend: ✓ Yes ☐ No | RFPG recommend: ✓ Yes ☐ No

Project Type

STRUCTURAL

☐ Detention ☐ Channel modification ☐ Bridge/culvert ☐ Storm drain ☐ Levee/floodwall

Other:

NON-STRUCTURAL

☐ Property buyouts ☐ Floodproofing ☐ Flood readiness/resilience ✓ Flood warning system/gauges

Other:

Problem Area

City: La Ward | County: Jackson

Watershed name(s): Multiple Watersheds

Tributary(ies):

HUC#(s): 12100401 | Stream miles (est.): N/A

Drainage area: square miles, est: 0.85 | or acreage, est: 544

Social Vulnerability Index (SVI): 0.51

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

Other: Warning Signs

Flood Risk Description

The city has identified the need for portable electric signs to be used throughout the City for emergency warning.

Proposed level-of-service: N/A | Status: N/A | Atlas 14 rainfall used: Yes

Project Description

Evaluate the type of portable electronic signs and communication system requirements, select and purchase the signs.

Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.

Estimated Project Cost

Capital cost: $56,000 | Ongoing O&M costs: TBD | Cost/benefit analysis: 0

Potential funding source(s): TBD