

Task 13 - Sponsor Requested FMPs

Batch	Page	New Action Number	Old Action Number (To be removed)	Type	Sponsor	Project	Notes	TC Rec (Y/N)	Tech Committee Rec Date	RFPG Rec (Y/N)	RFPG Rec Date
4	2	103000055	101000202	FMP	Austin (Municipality)	Dalton Lane Low water Crossing Improvements	FME to FMP				
4	3	103000056	101000205	FMP	Austin (Municipality)	Waller Creek – Guadalupe St. Flood Risk Reduction	FME to FMP				
4	4	103000057		FMP	Bastrop (Municipality)	Detention Pond at Hunters Crossing (DMP SB-01)	New FMP				
		103000058		NA	Bastrop (Municipality)	Riverwood Drive Improvements at Piney Creek (DMP PC-02)	See FME 101000246 above				
4	5	103000059		FMP	Bastrop (Municipality)	SH-95 at Gills Branch (DMP GB-01)	New FMP				
4	6	103000062		FMP	Caldwell County	Cedar Creek Channel Improvements Near Christian Drive	New FMP				
4	7	103000063		FMP	Caldwell County	CR 170 Low Water Crossing Improvements @ Lytton Creek	New FMP				
4	8	103000064		FMP	Caldwell County	CR 172 Low Water Crossing Improvements @ Lytton Creek	New FMP				
4	9	103000068		FMP	Pflugerville (Municipality)	Immanuel Road/Pecan Park at Upper Gilleland Creek (DMP GC-05)	New FMP				
		103000069		NA	Pflugerville (Municipality)	Weiss Lane Improvements at Willbarger Creek (DMP WC-01)	See FME 101000239 above				
4	10	103000070		FMP	Wharton County	Peach Creek Channel Improvements	New FMP				

Flood Mitigation Project (FMP)

Title ID#
Sponsor (note if City or County) Commitment Yes No
Technical committee recommend Yes No RFPG recommend Yes No

REGION 10

Project Type

STRUCTURAL

Detention Channel modification Bridge/culvert Storm drain Levee/floodwall

Other

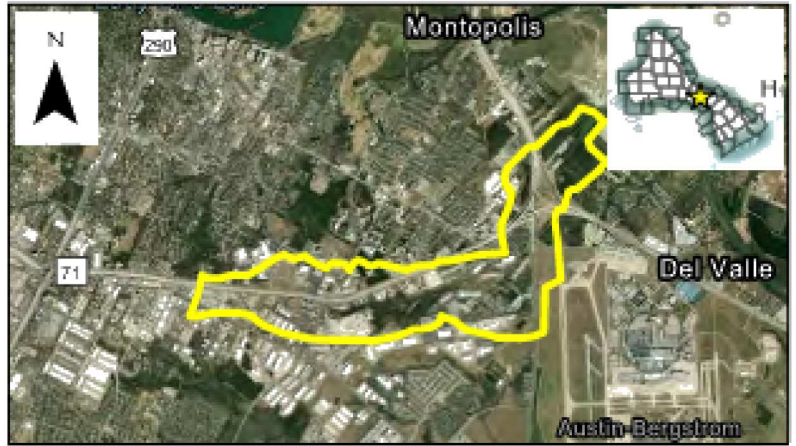
NON-STRUCTURAL

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

Other

Problem Area

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



Flood Risk Description

The Carson Creek and Tributary 4 crossings at Dalton Lane near Hawkins Lane and Sherman Road are inundated by small, frequent storm events (less than 2-year event) leading to unsafe conditions for motorists. These crossings provide access to City maintenance facilities that need to be available during emergencies.

Proposed level-of-service Status Atlas 14 rainfall used

Project Description

Project replaces culverts of 2 existing low water crossings (LWC) with new bridges. The LWC flood in the 2-year storm and the project will prevent the LWCs from overtopping in the 100-year storm. Creek restoration downstream of the crossings to prevent erosion.

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 Ongoing O&M costs Cost/benefit analysis
Potential funding source(s)

Flood Mitigation Project (FMP)

Title ID#
Sponsor (note if City or County) Commitment Yes No
Technical committee recommend Yes No RFPG recommend Yes No

REGION 10

Project Type

STRUCTURAL

Detention Channel modification Bridge/culvert Storm drain Levee/floodwall

Other

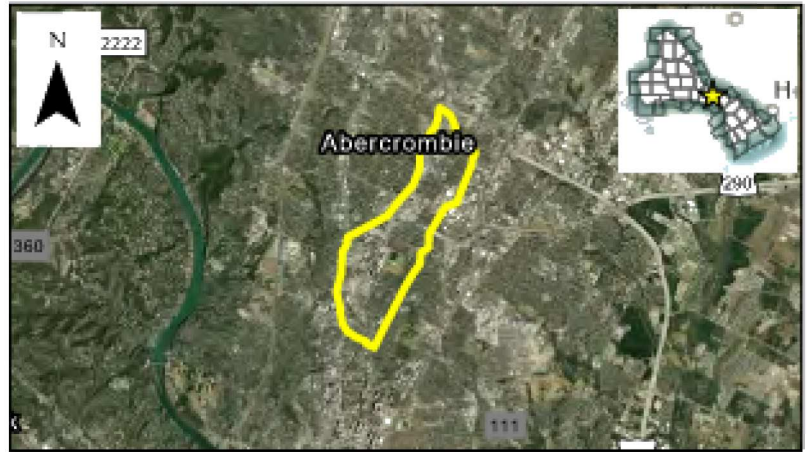
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Tributary(ies)
HUC#(s) Stream miles (est.)
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Other



Flood Risk Description

When the area of interest was developed, it appears an existing creek was covered/diverted to a small storm drain. The area has been identified as high priority due to street, yard, and structural flooding including the 2015 Memorial Day and 2015 Halloween floods. The City has logged flooding complaints for 30 residences and 14 streets in the Hyde Park neighborhood. Analysis of the project drainage area indicates there are a significant number of structures that experience flooding that have not reported flood complaints. Project will eliminate 100-yr risk for 68 residential structures, reduce risk for over 120 structures, and will eliminate more than 1-mile of roadway flood risk.

Proposed level-of-service Status Atlas 14 rainfall used

Project Description

Construct approximately 28,000 linear feet of subsurface stormwater drains east of Guadalupe Street and west of Avenue G, between 33rd and 46th streets. The project includes three new surface-level detention ponds near the Baker Center and in Adams-Hemphill Park with green stormwater infrastructure for water quality treatment; stream restoration using natural channel design for Waller Creek downstream of the detention pond; underground stormwater detention structures around the former Baker Center; improvements to the outfall structures at Central Park Pond and Triangle Pond just west of Guadalupe Street; and related utility relocations throughout. There are no adverse impacts or insurmountable constraints (environmental, utility conflicts, right-of-way needs, and constructability) that will prevent implementation.

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 Ongoing O&M costs Cost/benefit analysis
Potential funding source(s)

Flood Mitigation Project (FMP)

Title ID#
Sponsor (note if City or County) Commitment Yes No
Technical committee recommend Yes No RFPG recommend Yes No

REGION 10

Project Type

STRUCTURAL

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Other

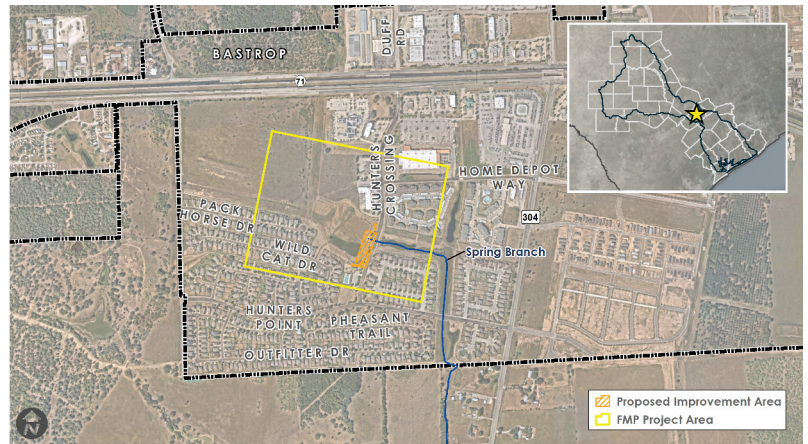
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Property buyouts Floodproofing Flood readiness/resilience Flood warning system/gauges

Other

Problem Area

City County
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Tributary(ies)
HUC#(s) Stream miles (est.)
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Social Vulnerability Index (SVI)
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Other



Flood Risk Description

Hunters Crossing becomes flooded by Spring Branch during the 4% ACE storm event and overflows into Hunters Crossing Park.

Proposed level-of-service Status Atlas 14 rainfall used Yes

Project Description

Proposed improvements include a redesigned outlet weir structure for the existing detention pond, a new 170 foot long 0.5 ft tall berm bordering Hunters Crossing Park, and 120 feet of existing berm improvements along Hunters Crossing. The proposed improvements alleviate flooding in the park and provide 100-year level of service for Hunters Crossing.

Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways.

Estimated Project Cost

Capital cost Ongoing O&M costs Cost/benefit analysis
Potential funding source(s)

Flood Mitigation Project (FMP)

Title ID#
Sponsor (note if City or County) Commitment Yes No
Technical committee recommend Yes No RFPG recommend Yes No

REGION 10

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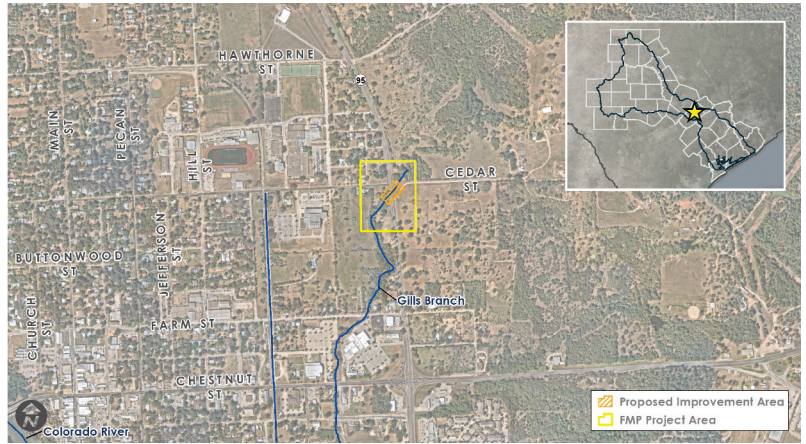
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Problem Area

City County
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Tributary(ies)
HUC#(s) Stream miles (est.)
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Social Vulnerability Index (SVI)
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Other



Flood Risk Description

State Highway 95 (SH-95) becomes flooded by Gills Branch during the 10% ACE storm event. The proposed improvements prevent SH-95 from overtopping during the 4% ACE storm event and reduces, but does not eliminate, overtopping during the 1% ACE storm event. If the project is implemented along with the FMP Gills Branch Flood Mitigation Improvements, the proposed improvements provide a 1% ACE level of service.

Proposed level-of-service Status Atlas 14 rainfall used Yes

Project Description

The proposed improvements include the addition of two (2) 8' x 8' culverts to improve conveyance along with the existing three (3) 8' x 8' culverts.

Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways.

Estimated Project Cost

Capital cost Ongoing O&M costs Cost/benefit analysis
Potential funding source(s)

Flood Mitigation Project (FMP)

Title ID#
Sponsor (note if City or County) Commitment Yes No
Technical committee recommend Yes No RFPG recommend Yes No

REGION 10

Project Type

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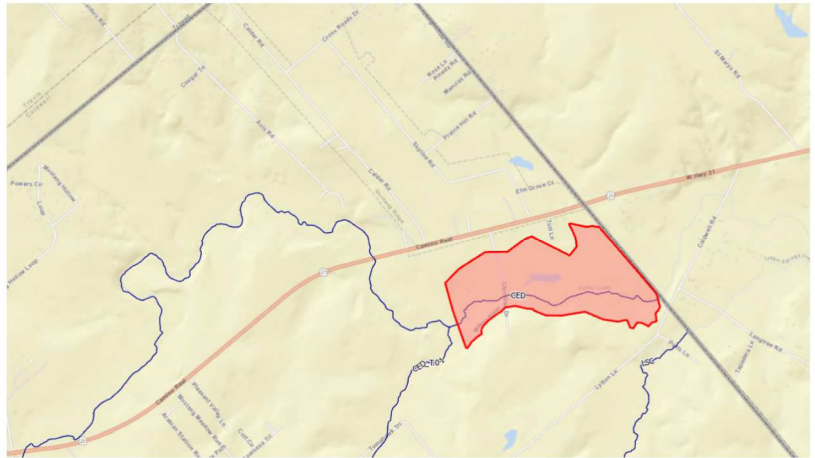
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Other



Flood Risk Description

Nine residential structures lie within the existing conditions 1% AEP floodplain. Flooding depths at these structures range from 4" to 48" under existing conditions.

Proposed level-of-service Status Atlas 14 rainfall used

Project Description

The proposed project includes approximately 4,100 LF of channel improvements, with a 300 ft bottom width and 4:1 side slopes. No improvements to the existing drainage structure at Christian Drive are proposed with this project. Based on the results of preliminary 2D hydraulic modeling, the proposed channel improvements allowed for the removal of all nine residential structures from the 1% AEP floodplain, and no negative impacts were observed. Project will likely require environmental permitting, including, but not limited to, Clean Water Act Section 404, endangered species, cultural resources, etc.

Related Goal(s)

Estimated Project Cost

Capital cost Ongoing O&M costs Cost/benefit analysis
Potential funding source(s)

Flood Mitigation Project (FMP)

Title ID#
Sponsor (note if City or County) Commitment Yes No
Technical committee recommend Yes No RFPG recommend Yes No

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Project Type

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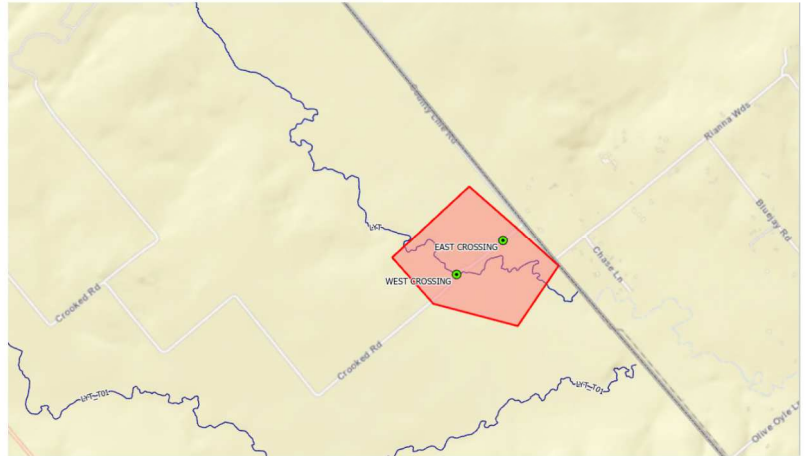
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Problem Area

City County
Watershed name(s)
Tributary(ies)
HUC#(s) Stream miles (est.)
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Social Vulnerability Index (SVI)
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Other



Flood Risk Description

Two existing low-water crossings on CR 170 are flooded during the 1% AEP storm event. The western crossing lies on the Lytton Creek mainstem, and the flooding depth is 71 inches. The eastern crossing lies on a small unnamed tributary to Lytton Creek, and the flooding depth is 48 inches.

Proposed level-of-service Status Atlas 14 rainfall used

Project Description

The proposed project includes upgrading both existing low water crossings to include multiple box culverts, a total of approximately 1,130 LF of channel improvements (100 ft bottom width), and roadway elevation. Based on the results of preliminary 2D modeling, 1% AEP flooding depths were reduced to 16 inches at the western crossing and 5 inches at the eastern crossing. Localized water surface elevation rises up to 0.40 feet were observed immediately upstream of the western crossing. However, we believe these minor impacts will be resolved during final design. Project will likely require environmental permitting, including, but not limited to, Clean Water Act Section 404, endangered species, cultural resources, etc.

Related Goal(s)

Estimated Project Cost

Capital cost Ongoing O&M costs Cost/benefit analysis
Potential funding source(s)

Flood Mitigation Project (FMP)

Title ID#
Sponsor (note if City or County) Commitment Yes No
Technical committee recommend Yes No RFPG recommend Yes No

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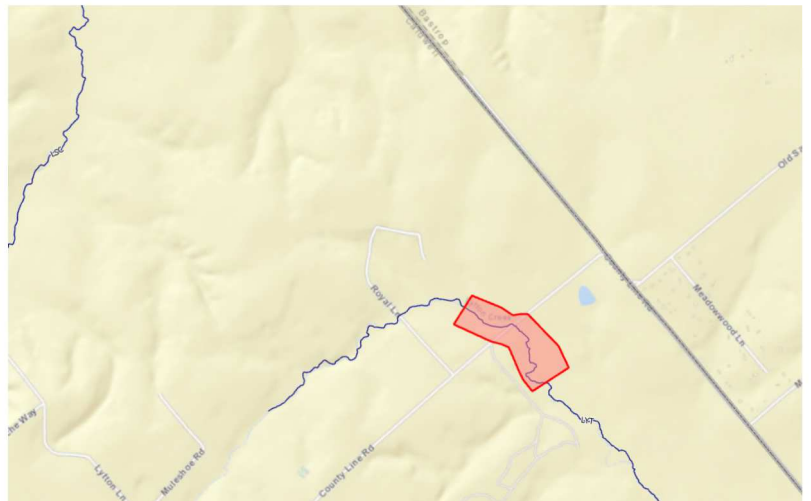
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Property buyouts Floodproofing Flood readiness/resilience Flood warning system/gauges

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Problem Area

City County
Watershed name(s)
Tributary(ies)
HUC#(s) Stream miles (est.)
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Social Vulnerability Index (SVI)
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Other



Flood Risk Description

The existing low water crossing on CR 172 at Lytton Creek is flooded to a depth of approximately 64 inches during the 1% AEP storm event.

Proposed level-of-service Status Atlas 14 rainfall used

Project Description

The proposed project includes upgrading the existing low water crossing with multiple box culverts and approximately 680 LF of channel improvements (200 ft bottom width). Based on preliminary 2D modeling, flooding depths were reduced from 64 inches to 6 inches during the 1% AEP storm event, and no negative impacts were observed. Project will likely require environmental permitting, including, but not limited to, Clean Water Act Section 404, endangered species, cultural resources, etc.

Related Goal(s)

Estimated Project Cost

Capital cost Ongoing O&M costs Cost/benefit analysis
Potential funding source(s)

Flood Mitigation Project (FMP)

Title ID#
Sponsor (note if City or 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

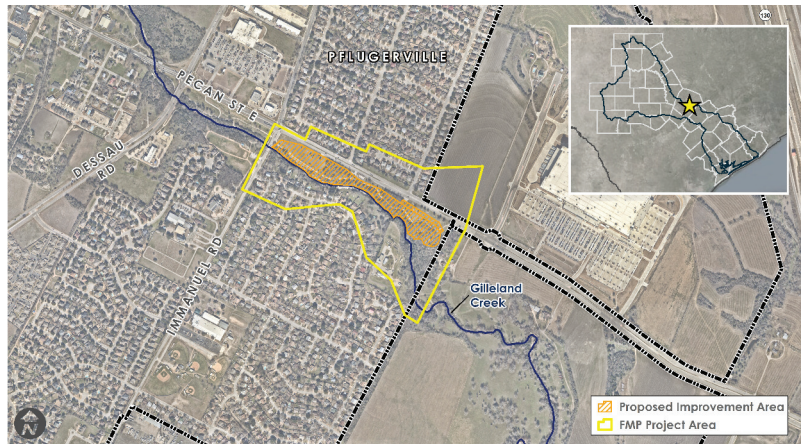
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Property buyouts Floodproofing Flood readiness/resilience Flood warning system/gauges

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Problem Area

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



Flood Risk Description

Multiple streets and residential areas experience flooding from Gilleland Creek. The level of service for Immanuel Road is less than a 5-year storm event. The 100-year floodplain downstream of Immanuel Road extends into the neighborhood south of Gilleland Creek, inundating approximately 20 homes. The 100-year floodplain also floods East Pecan Street to the north of Gilleland Creek making the road impassible for motorists.

Proposed level-of-service Status Atlas 14 rainfall used Yes

Project Description

Proposed improvements include 2,200 ft of channel improvements and a 515 ft embankment to protect East Pecan Street from flooding. The proposed improvements allow Immanuel Road to pass the 10-year storm event, reduces flood risk for approximately 20 homes and relieves flooding on the East Pecan Street.

Related Goal(s)

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

Estimated Project Cost

Capital cost Ongoing O&M costs Cost/benefit analysis
Potential funding source(s)

Flood Mitigation Project (FMP)

Title ID#
Sponsor (note if City or County) Commitment Yes No
Technical committee recommend Yes No RFPG recommend Yes No

REGION 10

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



Flood Risk Description

To be provided by Sponsor Technical Consultant

Proposed level-of-service Status Atlas 14 rainfall used Yes

Project Description

Proposed mitigation improvements include approximately 22,900 feet of channel benching starting approximately 5,000 feet downstream of the Peach Creek crossing of CR 129 and doing downstream toward the confluence with the San Bernard River. This project will include easement acquisition, channel benching above the OHWM by 40-ft, revegetation, construction of maintenance access points, and channel stabilization measures. The County will need outside funding to construct this 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 and waterways.

Estimated Project Cost

Capital cost Ongoing O&M costs Cost/benefit analysis
Potential funding source(s)