

Flood Mitigation Project (FMP)



Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FME's County

Associated FMS's Associated FMP's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

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

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title East Fork San Jacinto River - Winters Bayou Detention

ID# 063000059 Sponsor San Jacinto (County)

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

The goal of the detention facility is to reduce flooding in the East Fork watershed by constructing a 1.60-mile-long earthen impoundment that captures runoff from Winters Bayou.

Watershed HUC# (if known) -

Emergency Need? No

Drainage area (mi² est.) 409

Associated FME's 999999

County Harris,Liberty,Montgomery,San Jacinto,Walker

Associated FMS's 999999

Associated FMP's 999999

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

Population at risk 2,559 # of structures 1,896 Critical facilities 3

Farm/Ranch land impacted (acres) 72 Roadway(s) impacted (length) 73

Number of low water crossings 1 Historical road closures 1

100-Year Flood Risk Reduction

Population removed from 100-yr 1412 # of structures removed from 100-yr 651

Critical facilities removed from 100-yr 1 Farm/Ranch land removed from 100-yr (acres) 5.86065578

Road removed from 100-yr (miles) 17 Low water crossings removed from 100-yr 0

Other benefits - Reduction in # of road closures over 10 years 0

Impacts

Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$134,000,000 % Nature-Based 0 BCR 0.47

Recurring costs \$10,007,205 Issues Right-of-Way, Permitting, Acquisitions, Utility Conflicts, Transportation



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title Halls Bayou Watershed Mitigation Application 1 - CDBG MIT

ID# 063000040 Sponsor Harris County Flood Control District

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

Projects submitted as part of the CDBG MIT grant in Halls Bayou which include five (5) regional channel and detention projects including C-28, C-41 Hardy West, C-41 Mainstem, C-30, and C-23.

Watershed HUC# (if known) 120401040605,120401040601,12040104030 Emergency Need? Yes

Drainage area (mi² est.) 44

Associated FME's 999999

County Harris

Associated FMS's 999999

Associated FMP's 999999

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

Population at risk 43,667 # of structures 15,541 Critical facilities 96

Farm/Ranch land impacted (acres) 15 Roadway(s) impacted (length) 139

Number of low water crossings 7 Historical road closures 7

100-Year Flood Risk Reduction

Population removed from 100-yr 9386 # of structures removed from 100-yr 3023

Critical facilities removed from 100-yr 6 Farm/Ranch land removed from 100-yr (acres) 0.032652

Road removed from 100-yr (miles) 17 Low water crossings removed from 100-yr 0

Other benefits - Reduction in # of road closures over 10 years 0

Impacts

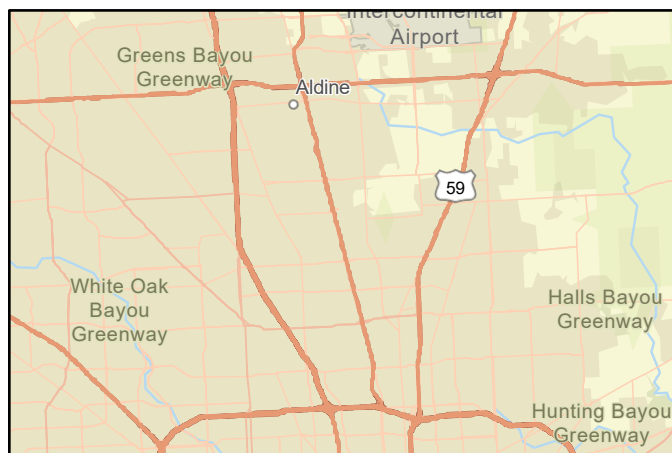
Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$99,653,000 % Nature-Based 0 BCR 1.46000004

Recurring costs \$6,037,488 Issues Right-of-Way, Acquisition, Utility Conflicts, Environmental Concerns



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title Greens CDBG MIT Applicatoin Projects, including the following local drainage improvements: Castlewood, Fountainview, Humble Rd Place, North Forest, and

ID# 063000167 Sponsor Harris County Flood Control District

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

Projects submitted as part of the CDBG MIT grant in Greens Bayou including Projects: Fountainview Sec 1&2, Castlewood Sec 3&4, North Forest, Mid-Reach Greens, Parkland Estates, and Humble Road Place.

Watershed HUC# (if known) 120401010501,120401010502,12040102010 Emergency Need? Yes

Drainage area (mi² est.) 166

Associated FME's 999999 County Harris

Associated FMS's 999999 Associated FMP's 999999

Existing 100-Year Flood Risk

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

Population at risk 56,121 # of structures 6,644 Critical facilities 112

Farm/Ranch land impacted (acres) 127 Roadway(s) impacted (length) 1,558

Number of low water crossings 2 Historical road closures 2

100-Year Flood Risk Reduction

Population removed from 100-yr 21508 # of structures removed from 100-yr 1816

Critical facilities removed from 100-yr 21 Farm/Ranch land removed from 100-yr (acres) -3.21593904

Road removed from 100-yr (miles) 2501851 Low water crossings removed from 100-yr 0

Other benefits - Reduction in # of road closures over 10 years 0

Impacts

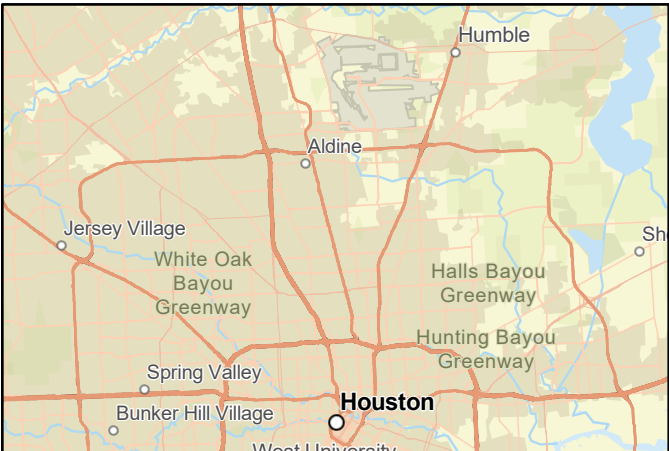
Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$120,284,000 % Nature-Based 0 BCR 2.13000011

Recurring costs \$7,287,419 Issues Right-of-Way, Permitting, Acquisitions, Utility Conflicts



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title

White Oak Bayou CDBG MIT Application Projects: Kolbe Road Drainage Improvements, Barwood, E132-00-00, Tower Oaks, & Little White Oak

ID#

063000046

Sponsor

Harris County Flood Control District

RFPG recommend?

Yes

Reason for Recommendation

Alignment with RFPG goals and TWDB guidance principles.

Project Description

Projects submitted as part of the CDBG MIT grant in the White Oak Bayou Watershed which include five (5) regional channel and detention projects including Kolbe Road, Barwood, E132-00-00, Tower Oaks, & Little White Oak Bayous.

Watershed HUC# (if known)

120401020104,120401020106,12040104060

Emergency Need?

Yes

Drainage area (mi² est.)

111

Associated FME's

999999

County

Harris

Associated FMS's

999999

Associated FMP's

999999

Existing 100-Year Flood Risk

Flood risk type:

Riverine?

No

Coastal?

No

Local?

Yes

Playa?

No

Other?

No

Population at risk

10,513

of structures

2,937

Critical facilities

41

Farm/Ranch land impacted (acres)

0

Roadway(s) impacted (length)

47

Number of low water crossings

4

Historical road closures

4

100-Year Flood Risk Reduction

Population removed from 100-yr

3899

of structures removed from 100-yr

670

Critical facilities removed from 100-yr

3

Farm/Ranch land removed from 100-yr (acres)

0.004458

Road removed from 100-yr (miles)

7

Low water crossings removed from 100-yr

0

Other benefits

-

Reduction in # of road closures over 10 years

0

Impacts

Negative impacts?

No

Negative impacts description

-

Water supply contributions?

No

Water supply contribution description

-

Estimated Cost

Project Cost

\$120,015,000

% Nature-Based

0

BCR

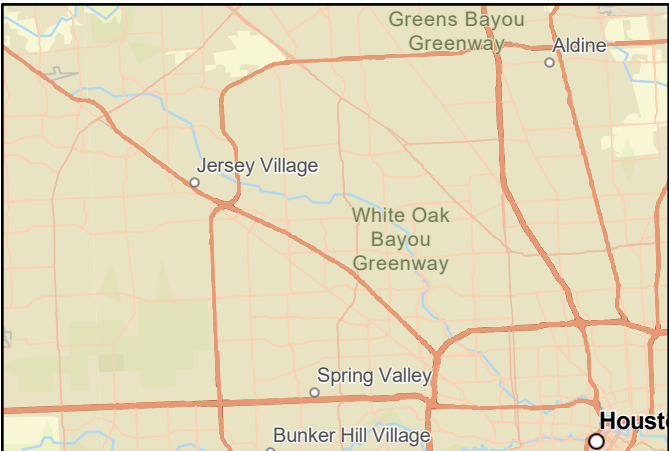
0.80000001

Recurring costs

\$7,271,121

Issues

Right-of-Way, Permitting, Acquisitions, Transportation Conflicts, Environmental



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

TitleBrays Bayou Watershed Mitigation Project CDBG MIT Application - Bintliff Ditch Improvements D133-00-00 & Sharptown

ID#063000027SponsorHarris County Flood Control District



RFPG recommend?YesReason for RecommendationAlignment with RFPG goals and TWDB guidance principles.

Project Description

Projects submitted as part of the CDBG MIT grant in the Brays Bayou Watershed which include regional channel and detention projects including D133 (Bintliff Ditch) and Sharptown Drainage.

Watershed HUC# (if known)120401040401Emergency Need?Yes

Drainage area (mi² est.)128

Associated FME's999999CountyHarris

Associated FMS's999999Associated FMP's999999

Existing 100-Year Flood Risk

Flood risk type:Riverine?YesCoastal?NoLocal?NoPlaya?NoOther?No

Population at risk6,750# of structures267Critical facilities26

Farm/Ranch land impacted (acres)0Roadway(s) impacted (length)34

Number of low water crossings0Historical road closures0

100-Year Flood Risk Reduction

Population removed from 100-yr2890# of structures removed from 100-yr160

Critical facilities removed from 100-yr4Farm/Ranch land removed from 100-yr (acres)0.00166

Road removed from 100-yr (miles)5Low water crossings removed from 100-yr0

Other benefits -Reduction in # of road closures over 10 years0

Impacts

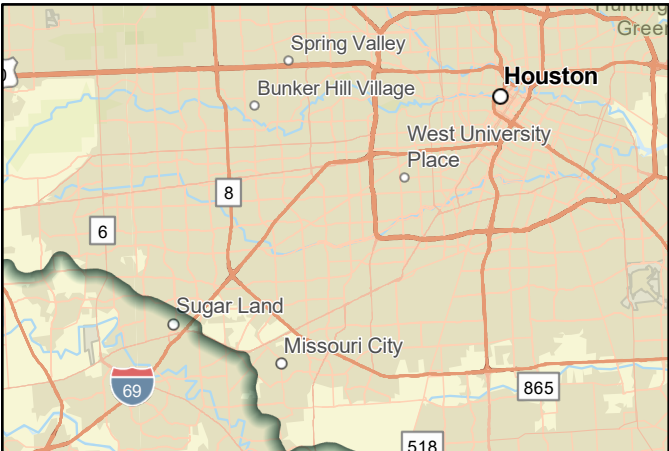
Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

Estimated Cost

Project Cost\$107,061,000% Nature-Based0BCR0.13

Recurring costs\$6,486,302IssuesRight-of-Way, Acquisitions, Utility Conflicts



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title West Fork San Jacinto River - Kingwood Benching & HW 242 Channelization

ID# 063000064 Sponsor Harris County Flood Control District

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

Channel improvement to reduce flooding in West Fork watershed by benching/widening to increase conveyance capacity of West Fork to lower the water surface elevation. Conduct after or in conjunction with detention on Lake Creek or Spring Creek.

Watershed HUC# (if known) 120401010502,120401010501,12040101040 Emergency Need? No

Drainage area (mi² est.) 141

Associated FME's 999999 County Harris, Montgomery

Associated FMS's 999999 Associated FMP's 999999

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

Population at risk 13,053 # of structures 4,364 Critical facilities 50

Farm/Ranch land impacted (acres) 381 Roadway(s) impacted (length) 107

Number of low water crossings 0 Historical road closures 0

100-Year Flood Risk Reduction

Population removed from 100-yr 7636 # of structures removed from 100-yr 1638

Critical facilities removed from 100-yr 10 Farm/Ranch land removed from 100-yr (acres) 19.39033127

Road removed from 100-yr (miles) 28 Low water crossings removed from 100-yr 0

Other benefits - Reduction in # of road closures over 10 years 0

Impacts

Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$994,000,000 % Nature-Based 0 BCR 0.1

Recurring costs \$50,814,968 Issues Right-of-Way, Permitting, Acquisitions, Utility Conflicts, Transportation Conflicts



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

This project includes a stormwater detention basin that compliments the federal project on White Oak Bayou.

Watershed HUC# (if known)	<input type="text" value="-"/>	Emergency Need?	<input type="text" value="No"/>
		Drainage area (mi² est.)	<input type="text" value="79"/>
Associated FME's	<input type="text" value="-"/>	County	<input type="text" value="Harris"/>
Associated FMS's	<input type="text" value="-"/>	Associated FMP's	<input type="text" value="-"/>

Existing 100-Year Flood Risk

Flood risk type:	Riverine?	<input type="text" value="Yes"/>	Coastal?	<input type="text" value="No"/>	Local?	<input type="text" value="Yes"/>	Playa?	<input type="text" value="No"/>	Other?	<input type="text" value="No"/>
Population at risk	<input type="text" value="29,631"/>	# of structures	<input type="text" value="5,661"/>	Critical facilities	<input type="text" value="30"/>					
Farm/Ranch land impacted (acres)	<input type="text" value="22"/>	Roadway(s) impacted (length)	<input type="text" value="121"/>							
Number of low water crossings	<input type="text" value="2"/>	Historical road closures	<input type="text" value="2"/>							

100-Year Flood Risk Reduction

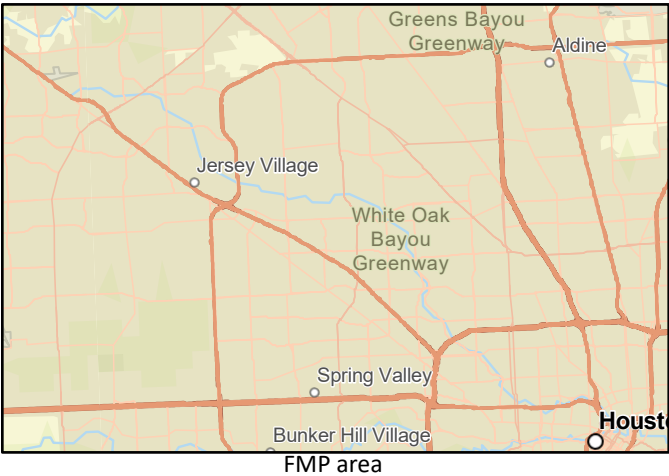
Population removed from 100-yr	<input type="text" value="3011"/>	# of structures removed from 100-yr	<input type="text" value="702"/>
Critical facilities removed from 100-yr	<input type="text" value="2"/>	Farm/Ranch land removed from 100-yr (acres)	<input type="text" value="0"/>
Road removed from 100-yr (miles)	<input type="text" value="19"/>	Low water crossings removed from 100-yr	<input type="text" value="0"/>
Other benefits	<input type="text" value="-"/>	Reduction in # of road closures over 10 years	<input type="text" value="0"/>

Impacts

Negative impacts?	<input type="text" value="No"/>	Negative impacts description	<input type="text" value="-"/>
Water supply contributions?	<input type="text" value="-"/>	Water supply contribution description	<input type="text" value="-"/>

Estimated Cost

Project Cost	<input type="text" value="\$42,600,000"/>	% Nature-Based	<input type="text" value="-"/>	BCR	<input type="text" value="1.89"/>
Recurring costs	<input type="text" value="-"/>	Issues	<input type="text" value="-"/>		



Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title Design and Construction of the B509-03-00 and B509-04-00 Stormwater Detention Basins (2018 Bond Project C-07)

ID# 063000319 Sponsor Harris County Flood Control District

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

This project provides for design and construction of three offline detention basins in B509-03-00 and B509-04-00.

Watershed HUC# (if known) - Emergency Need? No

Drainage area (mi² est.) 59

Associated FME's - County Harris

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

Population at risk 3,757 # of structures 1,387 Critical facilities 6

Farm/Ranch land impacted (acres) 23 Roadway(s) impacted (length) 31

Number of low water crossings 2 Historical road closures 3

100-Year Flood Risk Reduction

Population removed from 100-yr 114 # of structures removed from 100-yr 15

Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) 1 Low water crossings removed from 100-yr 0

Other benefits - Reduction in # of road closures over 10 years 0

Impacts

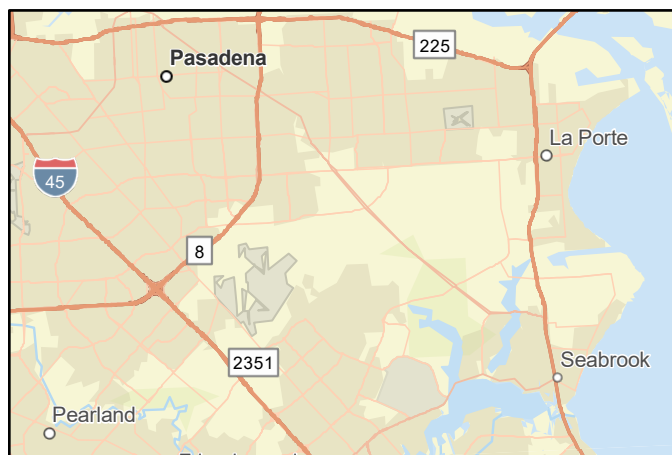
Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$34,850,000 % Nature-Based - BCR 0.01

Recurring costs - Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title **Design and Construction of Little York Stormwater Detention Basin (2018 Bond Project C-37)**

ID# **063000473** Sponsor **Harris County Flood Control District**

RFPG recommend? **Yes** Reason for Recommendation **Alignment with RFPG goals and TWDB guidance principles.**

Project Description

This project includes three regional detention pond cells along Langham Creek within the Addicks Reservoir watershed to mitigate peak discharges expected with new development in the area.

Watershed HUC# (if known) - Emergency Need? **No**
Drainage area (mi² est.) **55**
Associated FME's - County **Harris**
Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

Flood risk type: Riverine? **No** Coastal? **No** Local? **Yes** Playa? **No** Other? **No**
Population at risk **1,174** # of structures **234** Critical facilities **1**
Farm/Ranch land impacted (acres) **13** Roadway(s) impacted (length) **6**
Number of low water crossings **0** Historical road closures **0**

100-Year Flood Risk Reduction

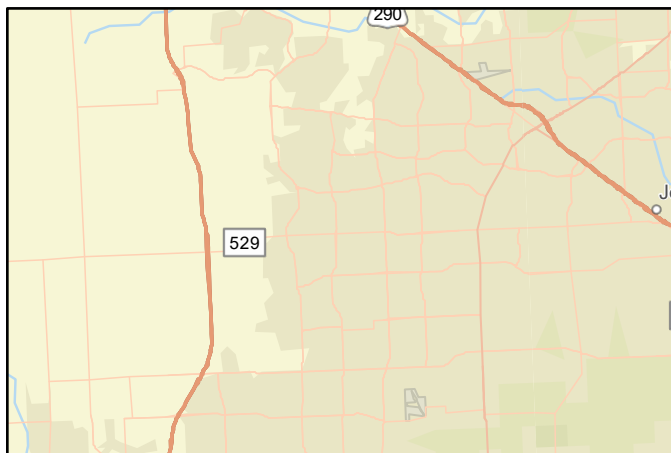
Population removed from 100-yr **0** # of structures removed from 100-yr **0**
Critical facilities removed from 100-yr **0** Farm/Ranch land removed from 100-yr (acres) **-**
Road removed from 100-yr (miles) **0** Low water crossings removed from 100-yr **0**
Other benefits - Reduction in # of road closures over 10 years **0**

Impacts

Negative impacts? **No** Negative impacts description -
Water supply contributions? **No** Water supply contribution description -

Estimated Cost

Project Cost **\$2,553,000** % Nature-Based **-** BCR **0.05**
Recurring costs - Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title Mainstem Evaluation Projects - Parker Basin (2018 Bond Project C-41)

ID# 063000471 Sponsor Harris County Flood Control District

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

This project provides for design and construction of four detention basins providing approximately 602 ac-ft of storage in the Halls Bayou watershed. Includes a half mile of channel improvements to P118-00-00.

Watershed HUC# (if known) - Emergency Need? No

Drainage area (mi² est.) 52

Associated FME's - County Harris

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

Population at risk 1,936 # of structures 886 Critical facilities 13

Farm/Ranch land impacted (acres) 1 Roadway(s) impacted (length) 11

Number of low water crossings 0 Historical road closures 0

100-Year Flood Risk Reduction

Population removed from 100-yr 319 # of structures removed from 100-yr 76

Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) 1 Low water crossings removed from 100-yr 0

Other benefits - Reduction in # of road closures over 10 years 0

Impacts

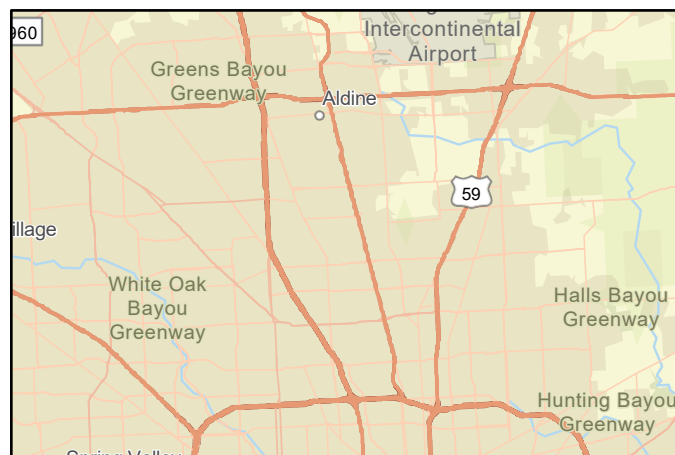
Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$38,230,000 % Nature-Based - BCR 0.18

Recurring costs \$0 Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title Right-Of-Way Acquisition, Design and Construction of a Stormwater Detention Basin on South Mayde Creek near the Grand Parkway (2018 Bond Project)

ID# 063000472 Sponsor Harris County Flood Control District

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

This project includes the design and construcion of three detention basins (226 ac-ft) along South Mayde Creek (U101-00-00).

Watershed HUC# (if known) - Emergency Need? No

Drainage area (mi² est.) 45

Associated FME's - County Harris,Waller

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

Population at risk 8,067 # of structures 2,339 Critical facilities 43

Farm/Ranch land impacted (acres) 269 Roadway(s) impacted (length) 49

Number of low water crossings 0 Historical road closures 0

100-Year Flood Risk Reduction

Population removed from 100-yr 194 # of structures removed from 100-yr 59

Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) 0 Low water crossings removed from 100-yr 0

Other benefits - Reduction in # of road closures over 10 years 0

Impacts

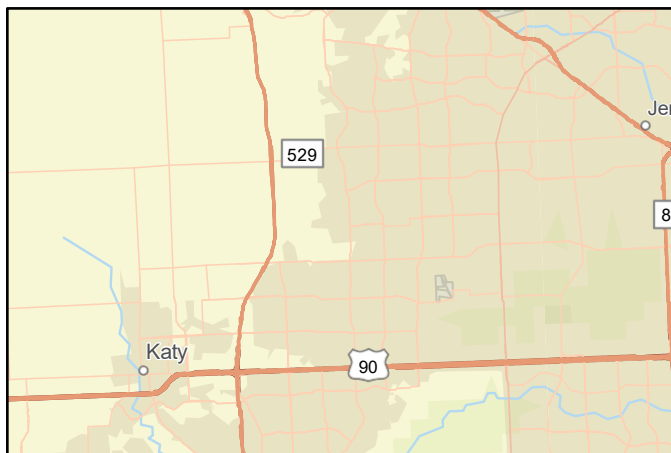
Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$11,440,000 % Nature-Based - BCR 0.18

Recurring costs - Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title Mainstem Evaluation Projects - Hahl Basin (2018 Bond Project C-41)

ID# 063000475 Sponsor Harris County Flood Control District

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

This project provides for design and construction of a 311 ac-ft dry-bottom detention basin and 20-ft of channel improvements to P118-21-00.

Watershed HUC# (if known) - Emergency Need? No

Drainage area (mi² est.) 52

Associated FME's - County -

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

Population at risk 13,690 # of structures 4,383 Critical facilities 23

Farm/Ranch land impacted (acres) 3 Roadway(s) impacted (length) 33

Number of low water crossings 2 Historical road closures -

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr 0

Critical facilities removed from 100-yr 6 Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) 12 Low water crossings removed from 100-yr 0

Other benefits - Reduction in # of road closures over 10 years 0

Impacts

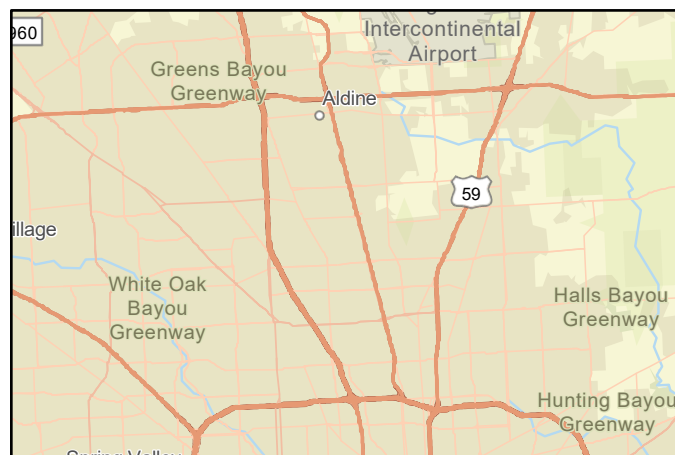
Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$40,780,000 % Nature-Based - BCR 0.21

Recurring costs \$481,200 Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title Design and Construction of Dinner Creek Stormwater Detention Basin (2018 Bond project C-38)

ID# 063000313 Sponsor Harris County Flood Control District

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

Design and Construction of Dinner Creek Stormwater Detention Basin (U520-01-00-E003). Project would expand the existing detention basin to ultimate conditions and incorporate both detention and retention.

Watershed HUC# (if known) - Emergency Need? No

Drainage area (mi² est.) 21

Associated FME's 999999

County Harris

Associated FMS's 999999

Associated FMP's 999999

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

Population at risk 1,377 # of structures 306 Critical facilities 1

Farm/Ranch land impacted (acres) 14 Roadway(s) impacted (length) 8

Number of low water crossings 0 Historical road closures 0

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr 42

Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) 1 Low water crossings removed from 100-yr 0

Other benefits 67 acre-ft of retention volume, recreation Reduction in # of road closures over 10 years 0

Impacts

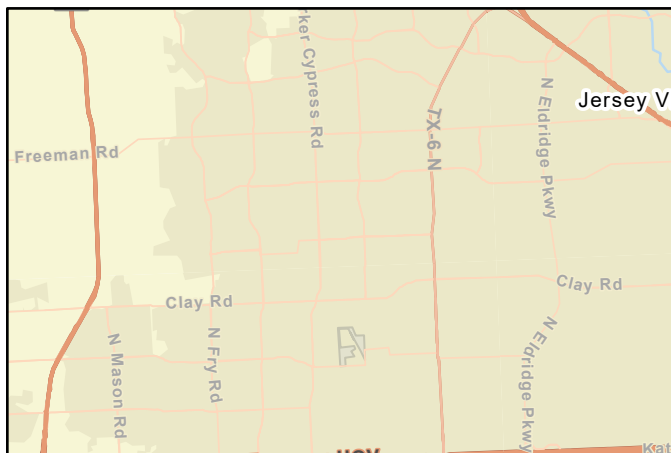
Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$33,080,232 % Nature-Based 0 BCR 0.04

Recurring costs \$938,000 Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title Right-Of-Way, Design and Construction of Conveyance Improvements along Armand Bayou B500-04-00-E004 and Channel Conveyance Improvements

ID# 063000321 Sponsor Harris County Flood Control District

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

The proposed project includes the expansion and extension of existing detention basins to alleviate historical and potential future riverine flooding within the Armand Bayou Watershed.

Watershed HUC# (if known) - Emergency Need? No

Drainage area (mi² est.) 59

Associated FME's - County Harris

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

Population at risk 18,858 # of structures 6,363 Critical facilities 28

Farm/Ranch land impacted (acres) 59 Roadway(s) impacted (length) 150

Number of low water crossings 4 Historical road closures 0

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr 230

Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) 1 Low water crossings removed from 100-yr 0

Other benefits - Reduction in # of road closures over 10 years 0

Impacts

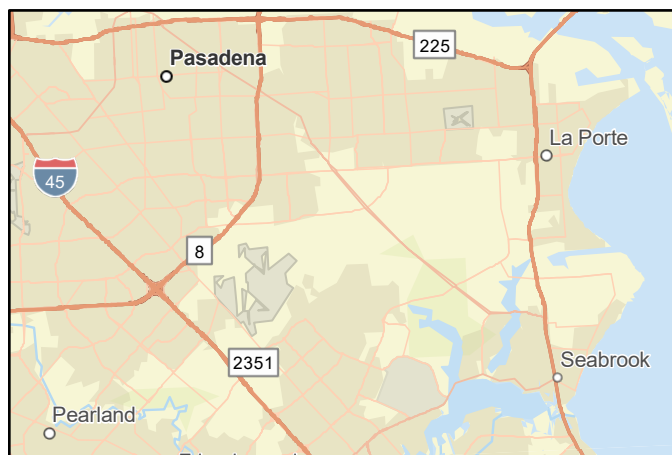
Negative impacts? No Negative impacts description -

Water supply contributions? - Water supply contribution description -

Estimated Cost

Project Cost \$9,450,000 % Nature-Based - BCR 0.81

Recurring costs - Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title Cypress Creek Program Implementation Plan, 23 Stormwater Detention Basin Plan (Includes 2018 Bond Projects CI-36 and CI-20)

ID# 063000357 Sponsor Harris County Flood Control District

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

Program implementation plan for the design and construction of 22 regional detention basins (12,800 ac-ft) in the Cypress Creek watershed K100-00-00) based on the Cypress Creek Watershed and Major Tributaries Regional Drainage Plan Update(February 2020).

Watershed HUC# (if known) 120401020104,120401020106,12040102010 Emergency Need? No

Drainage area (mi² est.) 119

Associated FME's - County Harris

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

Population at risk 49,086 # of structures 16,233 Critical facilities 158

Farm/Ranch land impacted (acres) 90 Roadway(s) impacted (length) 264

Number of low water crossings 0 Historical road closures 3

100-Year Flood Risk Reduction

Population removed from 100-yr 9880 # of structures removed from 100-yr 2814

Critical facilities removed from 100-yr 18 Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) 27 Low water crossings removed from 100-yr 0

Other benefits - Reduction in # of road closures over 10 years 0

Impacts

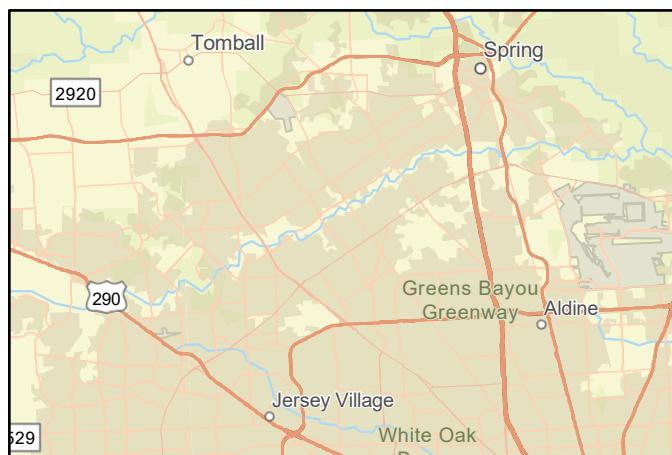
Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$550,000,000 % Nature-Based - BCR 0.284

Recurring costs \$91,000 Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title **Poor Farm Ditch (D111-00-00) Conveyance Improvements between Bellaire and University Boulevards**

ID# **063000186** Sponsor **Harris County Flood Control District**

RFPG recommend? **Yes** Reason for Recommendation **Alignment with RFPG goals and TWDB guidance principles.**

Project Description

Project proposed to improve conveyance within the D111-00-00 channel between Bellaire and University Boulevards. The LOS of the channel is increased from a 10-year event to a 50-year event. Mitigation volume is provided in the Meyer SW Detention Basin.

Watershed HUC# (if known)	120401040402	Emergency Need?	No
		Drainage area (mi ² est.)	2
Associated FME's	999999	County	Harris
Associated FMS's	999999	Associated FMP's	999999

Existing 100-Year Flood Risk

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	No	Playa?	No	Other?	No
Population at risk	1,410	# of structures	33	Critical facilities	4					
Farm/Ranch land impacted (acres)	-	Roadway(s) impacted (length)	3							
Number of low water crossings	0	Historical road closures	0							

100-Year Flood Risk Reduction

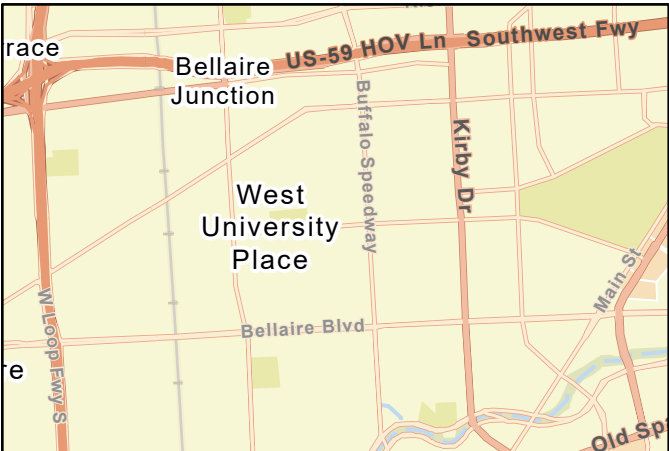
Population removed from 100-yr	54	# of structures removed from 100-yr	8
Critical facilities removed from 100-yr	2	Farm/Ranch land removed from 100-yr (acres)	-
Road removed from 100-yr (miles)	3	Low water crossings removed from 100-yr	0
Other benefits	-	Reduction in # of road closures over 10 years	0

Impacts

Negative impacts?	No	Negative impacts description	-
Water supply contributions?	No	Water supply contribution description	-

Estimated Cost

Project Cost	\$19,916,965	% Nature-Based	0	BCR	1.23
Recurring costs	\$721,000	Issues	-		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title Mainstem Evaluation Projects - Veterans Memorial (2018 Bond Project C-41)

ID# 063000469 Sponsor Harris County Flood Control District

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

Project consists of ROW acquisition and construction of a detention basin near Veterans Memorial which provides approximately 460 acre-feet of storage.

Watershed HUC# (if known) 120401040604

Emergency Need? No

Drainage area (mi² est.) 52

Associated FME's -

County Harris

Associated FMS's -

Associated FMP's -

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

Population at risk 38,916 # of structures 13,748 Critical facilities 91

Farm/Ranch land impacted (acres) - Roadway(s) impacted (length) 127

Number of low water crossings 7 Historical road closures -

100-Year Flood Risk Reduction

Population removed from 100-yr 1037 # of structures removed from 100-yr 292

Critical facilities removed from 100-yr 1 Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) 6 Low water crossings removed from 100-yr 0

Other benefits - Reduction in # of road closures over 10 years 0

Impacts

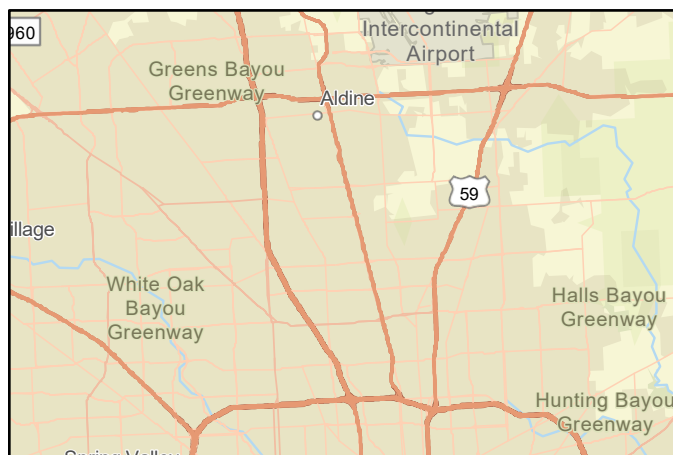
Negative impacts? No Negative impacts description -

Water supply contributions? - Water supply contribution description -

Estimated Cost

Project Cost \$35,250,000 % Nature-Based - BCR 0.49

Recurring costs \$1,783,197 Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title Design and Construction of E116 tributary modifications and detention (2018 Bond project Z-02)

ID# 063000389 Sponsor Harris County Flood Control District

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

The proposed project includes channel improvements, upsizing of culverts, siltation removal, local drainage improvements, and a stormwater detention basin within White Oak Bayou Tributary E116-00-00.

Watershed HUC# (if known) 120401040302,120401040304

Emergency Need? No

Drainage area (mi² est.) 7

Associated FME's -

County Harris

Associated FMS's -

Associated FMP's -

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

Population at risk 36,556 # of structures 14,652 Critical facilities 155

Farm/Ranch land impacted (acres) 6 Roadway(s) impacted (length) 140

Number of low water crossings 0 Historical road closures 0

100-Year Flood Risk Reduction

Population removed from 100-yr 0 # of structures removed from 100-yr 0

Critical facilities removed from 100-yr 1 Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) 1 Low water crossings removed from 100-yr 0

Other benefits - Reduction in # of road closures over 10 years 0

Impacts

Negative impacts? No Negative impacts description -

Water supply contributions? - Water supply contribution description -

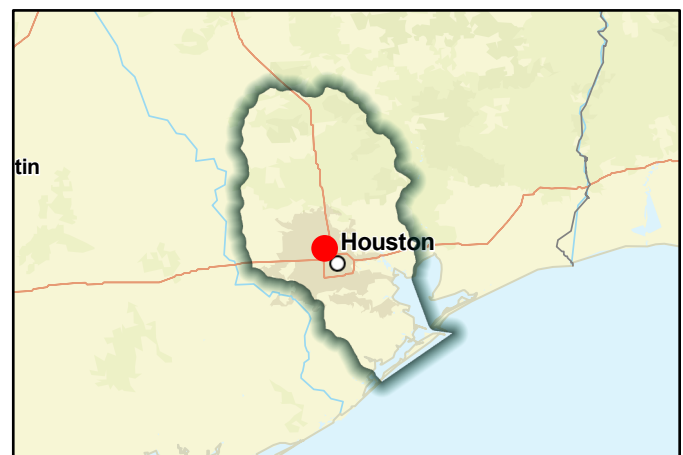
Estimated Cost

Project Cost \$8,375,000 % Nature-Based - BCR 1.47

Recurring costs - Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title Cypress Creek Watershed Major Tributaries Regional Drainage Plan Update, Alternative 1 Basins K500-01 and Stuebner Airline Road (2018 Bond Projects)

ID# 063000476 Sponsor Harris County Flood Control District

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

Provides for design and construction of two detention basins in the Cypress Creek watershed, including a new 4,756 ac-ft detention basin and an expansion of an existing HCFCF detention basin along K500-01-00 from 531 ac-ft to 9,336 ac-ft of storage.

Watershed HUC# (if known) 120401020104

Emergency Need? No

Drainage area (mi² est.) 274

Associated FME's -

County Harris

Associated FMS's -

Associated FMP's -

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

Population at risk 0 # of structures 18,530 Critical facilities 144

Farm/Ranch land impacted (acres) - Roadway(s) impacted (length) 448

Number of low water crossings 4 Historical road closures -

100-Year Flood Risk Reduction

Population removed from 100-yr 7070 # of structures removed from 100-yr 1488

Critical facilities removed from 100-yr 10 Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) 22 Low water crossings removed from 100-yr 0

Other benefits - Reduction in # of road closures over 10 years 0

Impacts

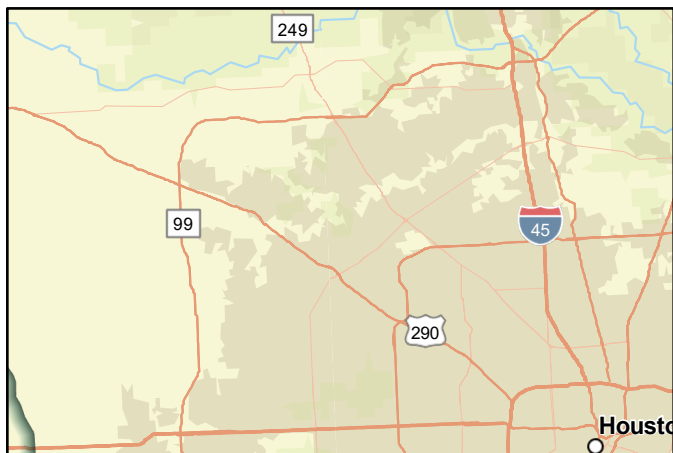
Negative impacts? No Negative impacts description -

Water supply contributions? - Water supply contribution description -

Estimated Cost

Project Cost \$345,329,984 % Nature-Based 0 BCR 0.391

Recurring costs \$20,921,852 Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title P118-E006 (Hardy West) (2018 Bond Project C-41)

ID# 063000477 Sponsor Harris County Flood Control District

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

Proposal of the Hardy West Detention Basin (P118-00-00-E006). Project consists of 2 basins providing 400 acre-ft of detention volume adjacent to Halls Bayou and separated by P118-25-00.

Watershed HUC# (if known) - Emergency Need? No
Drainage area (mi² est.) 52
Associated FME's 999999 County Harris
Associated FMS's 999999 Associated FMP's 999999

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No
Population at risk 9,997 # of structures 3,665 Critical facilities 3
Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (length) 23
Number of low water crossings 1 Historical road closures 1

100-Year Flood Risk Reduction

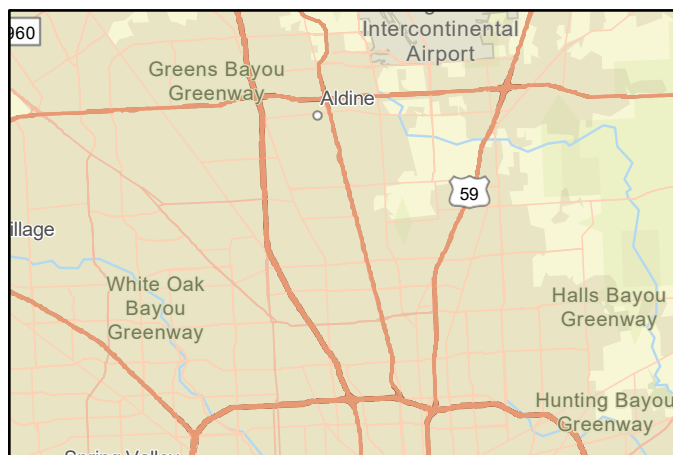
Population removed from 100-yr 121 # of structures removed from 100-yr 61
Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) -
Road removed from 100-yr (miles) 1 Low water crossings removed from 100-yr 0
Other benefits - Reduction in # of road closures over 10 years 0

Impacts

Negative impacts? No Negative impacts description -
Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$32,052,767 % Nature-Based 0 BCR 0.38
Recurring costs \$709,154 Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title **Goose Creek Flood Risk Reduction**

ID# **063000334** Sponsor **Harris County Flood Control District**

RFPG recommend? **Yes** Reason for Recommendation **Alignment with RFPG goals and TWDB guidance principles.**

Project Description

The project includes three phases of development. Phase 1 includes a regional detention basin and channel improvements along two segments of Goose Creek for a total length of 1.65 miles. Phase 2 includes a regional detention basin and channel improvements

Watershed HUC# (if known)	-	Emergency Need?	No
		Drainage area (mi² est.)	27
Associated FME's	-	County	Harris
Associated FMS's	-	Associated FMP's	-

Existing 100-Year Flood Risk

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No
Population at risk	5,318	# of structures	980	Critical facilities	34					
Farm/Ranch land impacted (acres)	50	Roadway(s) impacted (length)	17							
Number of low water crossings	1	Historical road closures	1							

100-Year Flood Risk Reduction

Population removed from 100-yr	1283	# of structures removed from 100-yr	269
Critical facilities removed from 100-yr	9	Farm/Ranch land removed from 100-yr (acres)	0
Road removed from 100-yr (miles)	28	Low water crossings removed from 100-yr	0
Other benefits	-	Reduction in # of road closures over 10 years	0

Impacts

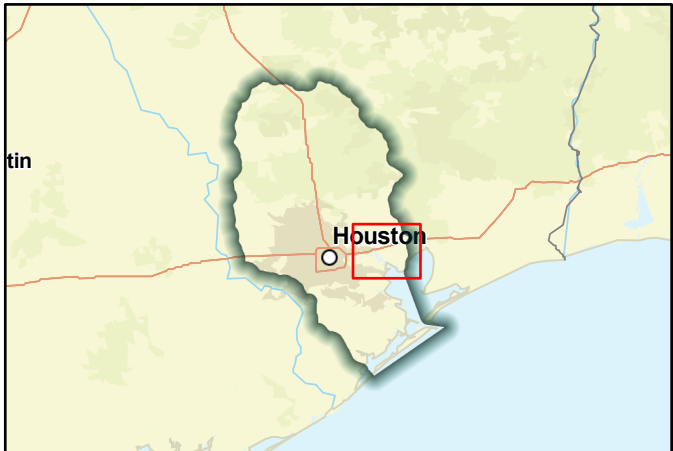
Negative impacts?	No	Negative impacts description	-
Water supply contributions?	-	Water supply contribution description	-

Estimated Cost

Project Cost	\$46,493,360	% Nature-Based	-	BCR	0.48
Recurring costs	-	Issues	-		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title Kingwood Diversion Ditch (G103-38-00)

ID# 063000360 Sponsor Harris County Flood Control District

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

Improvements to the Kingwood Diversion Ditch include channel modifications, flow diversion from Bens Branch, bridge replacements, as well as a new outfall to the West Fork San Jacinto River.

Watershed HUC# (if known) - Emergency Need? No
Drainage area (mi² est.) 22
Associated FME's - County Harris, Montgomery
Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No
Population at risk 3,414 # of structures 79 Critical facilities 18
Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (length) 2
Number of low water crossings 0 Historical road closures 0

100-Year Flood Risk Reduction

Population removed from 100-yr 3244 # of structures removed from 100-yr 49
Critical facilities removed from 100-yr 10 Farm/Ranch land removed from 100-yr (acres) 0
Road removed from 100-yr (miles) 25 Low water crossings removed from 100-yr 0
Other benefits - Reduction in # of road closures over 10 years 0

Impacts

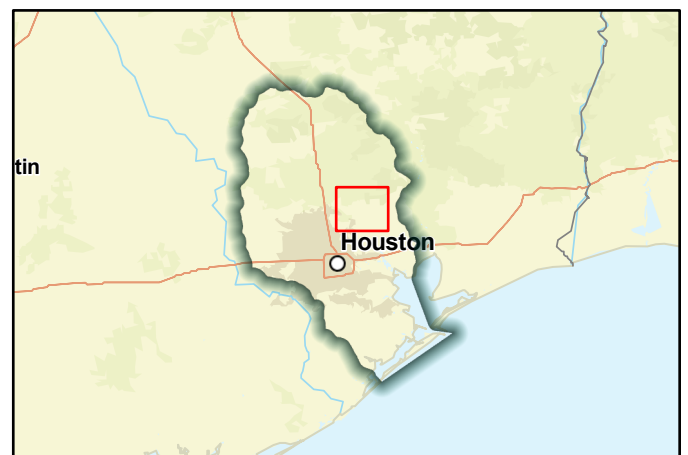
Negative impacts? No Negative impacts description -
Water supply contributions? - Water supply contribution description -

Estimated Cost

Project Cost \$62,938,000 % Nature-Based - BCR 0.03
Recurring costs - Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



TitleWillow Creek Watershed Plan - M120 Detention/Preservation Site

ID#063000339SponsorHarris County Flood Control District

RFPG recommend?YesReason for RecommendationAlignment with RFPG goals and TWDB guidance principles.

Project Description

The project includes a 1,640 acre-feet regional detention basin, 85 acres of floodplain preservation, & habitat preservation in Willow Creek.

Watershed HUC# (if known)-Emergency Need?No

Drainage area (mi² est.)56

Associated FME's-CountyHarris

Associated FMS's-Associated FMP's-

Existing 100-Year Flood Risk

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

Population at risk2,230# of structures916Critical facilities5

Farm/Ranch land impacted (acres)60Roadway(s) impacted (length)27

Number of low water crossings5Historical road closures5

100-Year Flood Risk Reduction

Population removed from 100-yr548# of structures removed from 100-yr127

Critical facilities removed from 100-yr0Farm/Ranch land removed from 100-yr (acres)0

Road removed from 100-yr (miles)2Low water crossings removed from 100-yr0

Other benefitsEnvironmentalReduction in # of road closures over 10 years0

Impacts

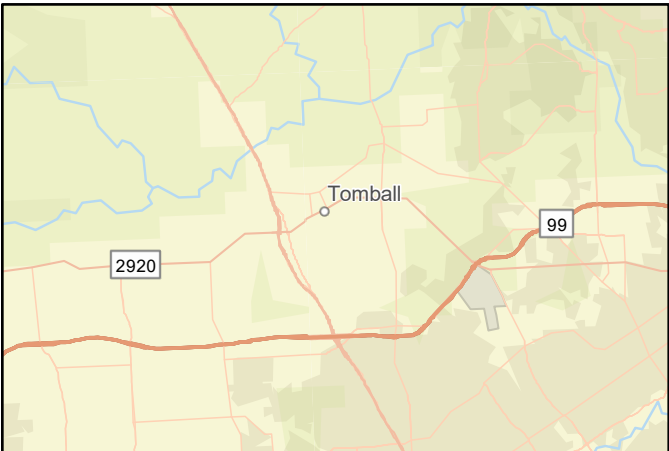
Negative impacts?NoNegative impacts description-

Water supply contributions? -Water supply contribution description-

Estimated Cost

Project Cost\$64,900,000% Nature-Based-BCR0.68

Recurring costs-Issues-



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title Brays Bayou - Keegans Bayou (D118-00-00) Flood Risk Reduction

ID# 063000328 Sponsor Harris County Flood Control District

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

The proposed project includes widening sections of the Keegans Bayou main channel and a 1,600 acre-feet detention basin.

Watershed HUC# (if known) - Emergency Need? No

Drainage area (mi² est.) 23

Associated FME's - County Fort Bend,Harris

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

Population at risk 20,045 # of structures 3,717 Critical facilities 57

Farm/Ranch land impacted (acres) 5 Roadway(s) impacted (length) 95

Number of low water crossings 0 Historical road closures 0

100-Year Flood Risk Reduction

Population removed from 100-yr 16486 # of structures removed from 100-yr 2009

Critical facilities removed from 100-yr 29 Farm/Ranch land removed from 100-yr (acres) 0

Road removed from 100-yr (miles) 150 Low water crossings removed from 100-yr 0

Other benefits - Reduction in # of road closures over 10 years 0

Impacts

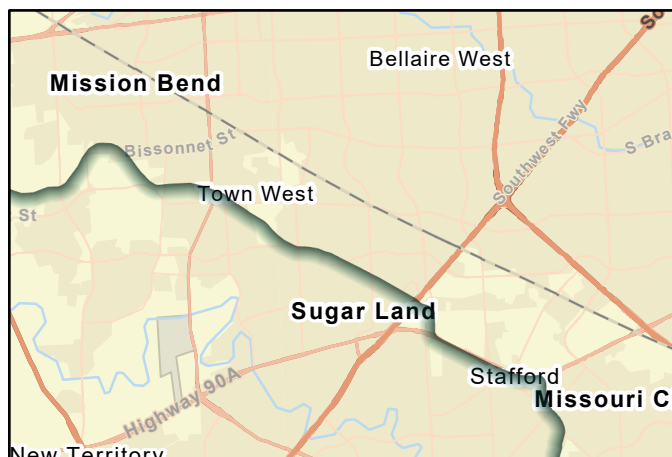
Negative impacts? No Negative impacts description -

Water supply contributions? - Water supply contribution description -

Estimated Cost

Project Cost \$190,218,000 % Nature-Based - BCR 0.94

Recurring costs - Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



TitleSims Bayou CDBG MIT Application - South Post Oak SWDB C147/C547; South Shaver SWDB C506-01-00-E003; Salt Water Ditch SWDB & Channel

ID#063000037SponsorHarris County Flood Control District

RFPG recommend?YesReason for RecommendationAlignment with RFPG goals and TWDB guidance principles.

Project Description

Projects submitted as part of the CDBG MIT grant in the Sims Bayou Watershed which include three (3) regional channel and detention projects including C147/C547, Saltwater Ditch, and C506.

Watershed HUC# (if known)120401040703,120401040402,12040104050Emergency Need?Yes

Drainage area (mi² est.)93

Associated FME's999999CountyFort Bend,Harris

Associated FMS's999999Associated FMP's999999

Existing 100-Year Flood Risk

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

Population at risk14,516# of structures4,367Critical facilities59

Farm/Ranch land impacted (acres)5Roadway(s) impacted (length)55

Number of low water crossings4Historical road closures4

100-Year Flood Risk Reduction

Population removed from 100-yr9352# of structures removed from 100-yr2283

Critical facilities removed from 100-yr32Farm/Ranch land removed from 100-yr (acres)2.46273494

Road removed from 100-yr (miles)17Low water crossings removed from 100-yr2

Other benefits -Reduction in # of road closures over 10 years2

Impacts

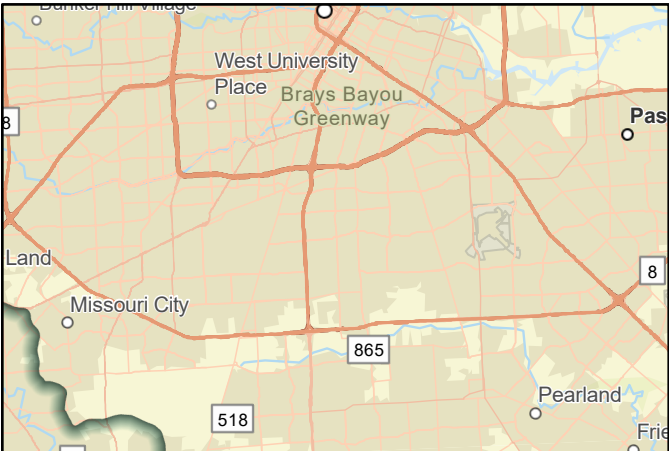
Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

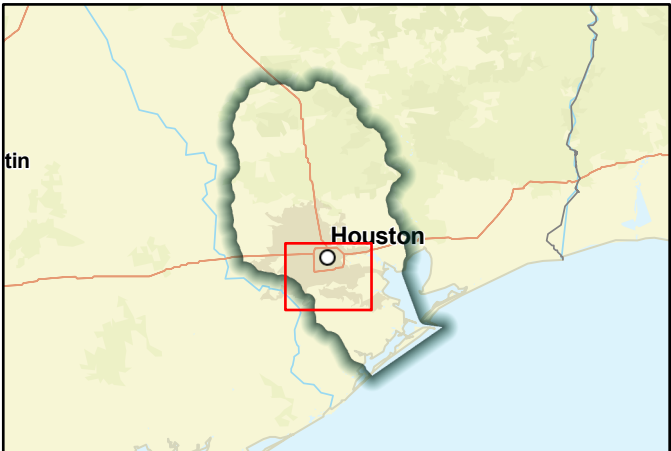
Estimated Cost

Project Cost\$99,653,000% Nature-Based0BCR1.79999995

Recurring costs\$6,037,488IssuesRight-of-Way, Permitting, Acquisitions, Utility Conflicts



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

TitleAddicks Reservoir - Right-Of-Way Acquisition, Design and Construction of Channel Conveyance Improvements, Bypass Channel, and Detention for South

ID#063000315SponsorHarris County Flood Control District

RFPG recommend?YesReason for RecommendationAlignment with RFPG goals and TWDB guidance principles.



Project Description

Part of the South Mayde Creek Plan that could reduce the risk of flooding for more than 70 homes and reduce the rainfall event by more than 340 acres in a pre-Atlas 1% rainfall event.

Watershed HUC# (if known)120401040203, 120401040303, 120401040303Emergency Need?No

Drainage area (mi² est.)13

Associated FME's -CountyHarris

Associated FMS's -Associated FMP's -

Existing 100-Year Flood Risk

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

Population at risk3,403# of structures1,015Critical facilities4

Farm/Ranch land impacted (acres) -Roadway(s) impacted (length)24

Number of low water crossings0Historical road closures0

100-Year Flood Risk Reduction

Population removed from 100-yr -# of structures removed from 100-yr -

Critical facilities removed from 100-yr -Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) -Low water crossings removed from 100-yr -

Other benefits -Reduction in # of road closures over 10 years -

Impacts

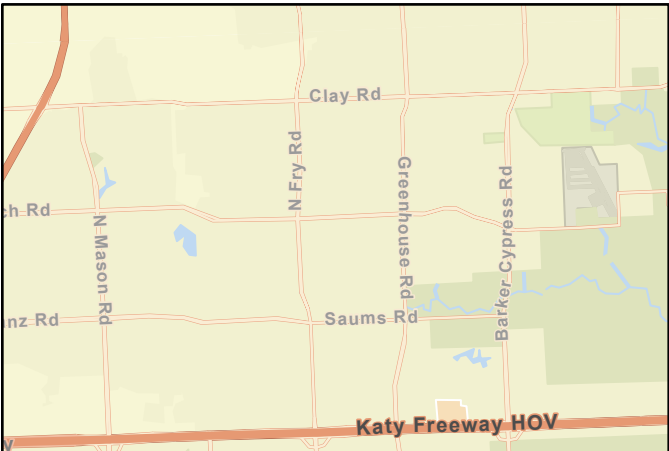
Negative impacts?NoNegative impacts description -

Water supply contributions? -Water supply contribution description -

Estimated Cost

Project Cost\$27,817,750% Nature-Based -BCR0.73

Recurring costs\$1,685,341Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title Design and Construction of Carpenters Bayou mainstem channel modifications and detention (2018 Bond project F-124)

ID# 063000402 Sponsor Harris County Flood Control District

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

The proposed project includes the design and construction of approximately two miles of channel improvements along N100-00-00, channel improvements to a short segment of N109-00-00, and a detention basin to mitigate downstream impacts.

Watershed HUC# (if known) - Emergency Need? No
Drainage area (mi² est.) 67
Associated FME's - County Harris
Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No
Population at risk 8,805 # of structures 2,569 Critical facilities 34
Farm/Ranch land impacted (acres) 39 Roadway(s) impacted (length) 67
Number of low water crossings 2 Historical road closures 0

100-Year Flood Risk Reduction

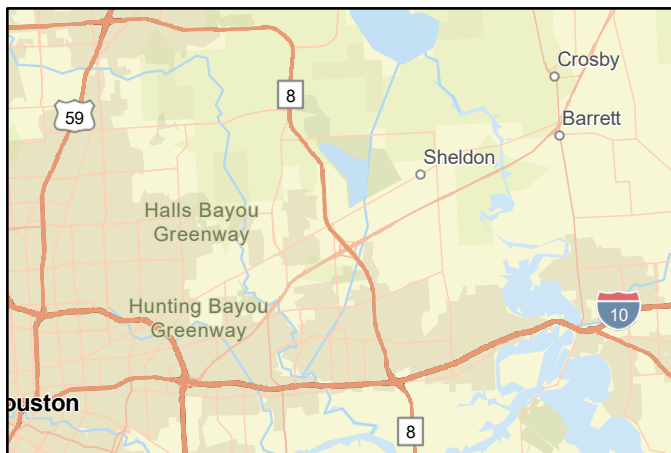
Population removed from 100-yr 3664 # of structures removed from 100-yr 379
Critical facilities removed from 100-yr 8 Farm/Ranch land removed from 100-yr (acres) -
Road removed from 100-yr (miles) 14 Low water crossings removed from 100-yr 0
Other benefits - Reduction in # of road closures over 10 years 0

Impacts

Negative impacts? No Negative impacts description -
Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$30,360,000 % Nature-Based - BCR 0.46
Recurring costs - Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title P518-11-E002 (P118-21 Phase II Detention) (2018 Bond Project C-41)

ID# 063000396 Sponsor Harris County Flood Control District

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

This project provides for design and construction for the second phase of the Aldine Westfield North Detention Basin in the Halls Bayou watershed.

Watershed HUC# (if known) - Emergency Need? No

Drainage area (mi² est.) 52

Associated FME's - County -

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

Population at risk 9,316 # of structures 3,412 Critical facilities 3

Farm/Ranch land impacted (acres) 3 Roadway(s) impacted (length) 22

Number of low water crossings 1 Historical road closures 1

100-Year Flood Risk Reduction

Population removed from 100-yr 423 # of structures removed from 100-yr 129

Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) 0 Low water crossings removed from 100-yr 0

Other benefits - Reduction in # of road closures over 10 years 0

Impacts

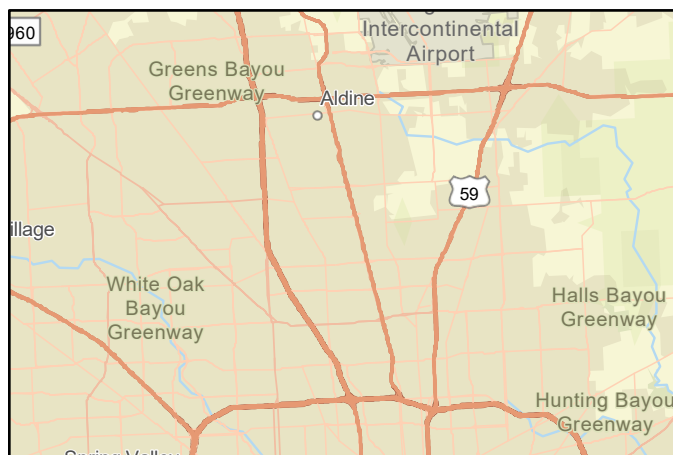
Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$10,371,000 % Nature-Based - BCR 0

Recurring costs \$415,000 Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title Clear Creek Mid reach (Based on 2012 GRR) Updated Plan (2018 Bond Projects C-03 and F-02)

ID# 063000474 Sponsor Harris County Flood Control District

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

The proposed project includes channel improvements and inline detention from Cullen Boulevard to Pearland Parkway along with additional offline detention basins to mitigate for impacts from additional conveyance in the mainstem of Clear Creek.

Watershed HUC# (if known) - Emergency Need? No
Drainage area (mi² est.) 201
Associated FME's - County -
Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No
Population at risk 57,612 # of structures 18,615 Critical facilities 144
Farm/Ranch land impacted (acres) 316 Roadway(s) impacted (length) 446
Number of low water crossings 5 Historical road closures -

100-Year Flood Risk Reduction

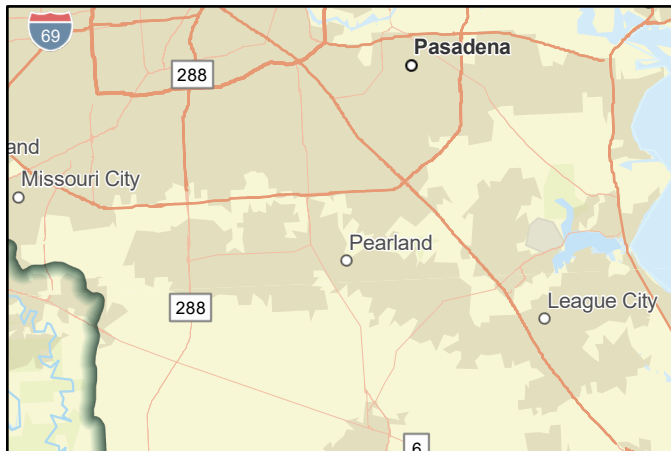
Population removed from 100-yr - # of structures removed from 100-yr -
Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -
Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -
Other benefits - Reduction in # of road closures over 10 years -

Impacts

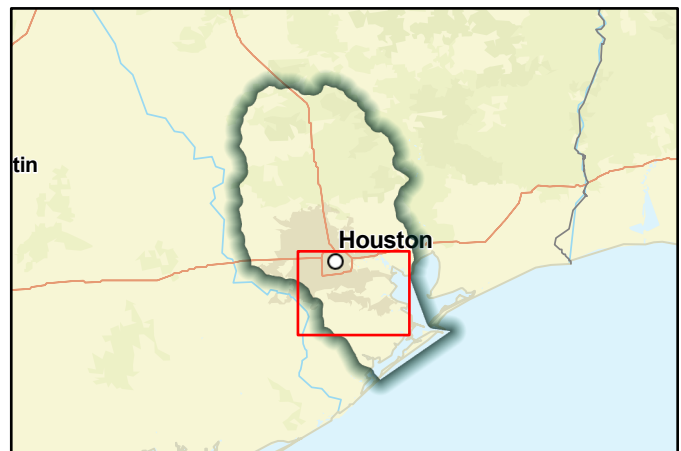
Negative impacts? No Negative impacts description -
Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$295,267,680 % Nature-Based - BCR 0.54
Recurring costs \$582,554 Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-23-00 and P118-23-02

ID# 063000397 Sponsor Harris County Flood Control District

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

This project provides for the design and construction of flood mitigation improvements including detention basins along P118-23-00 and concrete lining P118-23-02. (2018 Bond Project C-26 & C-27)

Watershed HUC# (if known) 120401040605,120401040601,12040104030 Emergency Need? No

Drainage area (mi² est.) 2

Associated FME's - County Harris

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

Population at risk 1,108 # of structures 289 Critical facilities 0

Farm/Ranch land impacted (acres) - Roadway(s) impacted (length) 2

Number of low water crossings 0 Historical road closures 1

100-Year Flood Risk Reduction

Population removed from 100-yr 1109 # of structures removed from 100-yr 286

Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) 23 Low water crossings removed from 100-yr 0

Other benefits - Reduction in # of road closures over 10 years 0

Impacts

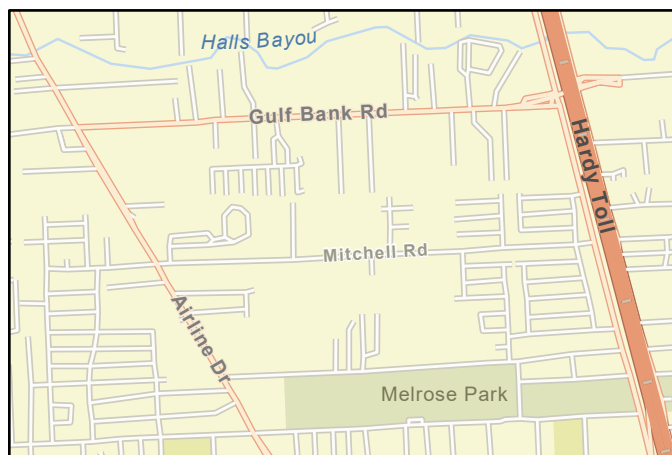
Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$31,317,000 % Nature-Based - BCR 0.482

Recurring costs - Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-25-00 & P118-25-01

ID# 063000399 Sponsor Harris County Flood Control District

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

This project provides analysis and preliminary design (Alternative 3b) for detention basin, widening of existing channels, and extension of channel P118-25-01 (Halls Bayou Tributary).

Watershed HUC# (if known) 120401040605,120401040601,12040104030 Emergency Need? No

Drainage area (mi² est.) 52

Associated FME's - County Harris

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

Population at risk 38,873 # of structures 13,531 Critical facilities 92

Farm/Ranch land impacted (acres) 14 Roadway(s) impacted (length) 137

Number of low water crossings 7 Historical road closures 1

100-Year Flood Risk Reduction

Population removed from 100-yr 3088 # of structures removed from 100-yr 952

Critical facilities removed from 100-yr 3 Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) 5 Low water crossings removed from 100-yr 0

Other benefits - Reduction in # of road closures over 10 years 0

Impacts

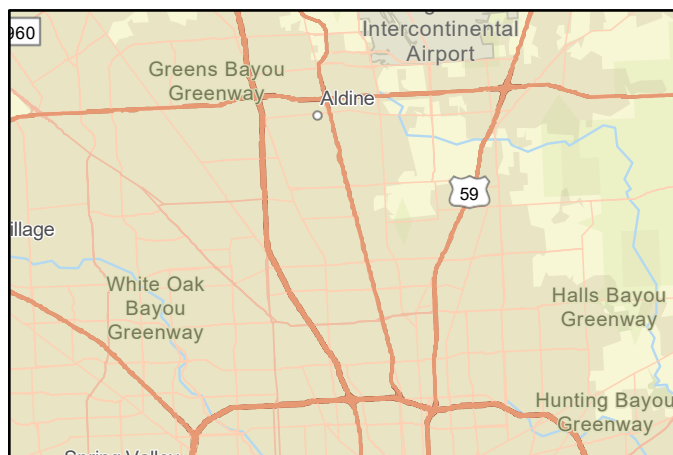
Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$14,938,614 % Nature-Based - BCR 0.958

Recurring costs - Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-27-00

ID# 063000400 Sponsor Harris County Flood Control District

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

This project provides analysis and description of the existing flooding conditions within the P118-27-00 catchment area and consequently develops flood risk mitigation alternatives, including detention basis and channel improvements.

Watershed HUC# (if known) 120401040605,120401040601,12040104030 Emergency Need? No

Drainage area (mi² est.) 6

Associated FME's - County Harris

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

Population at risk 1,083 # of structures 326 Critical facilities 5

Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (length) 3

Number of low water crossings 5 Historical road closures 1

100-Year Flood Risk Reduction

Population removed from 100-yr 1811 # of structures removed from 100-yr 325

Critical facilities removed from 100-yr 5 Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) 26 Low water crossings removed from 100-yr 0

Other benefits - Reduction in # of road closures over 10 years 0

Impacts

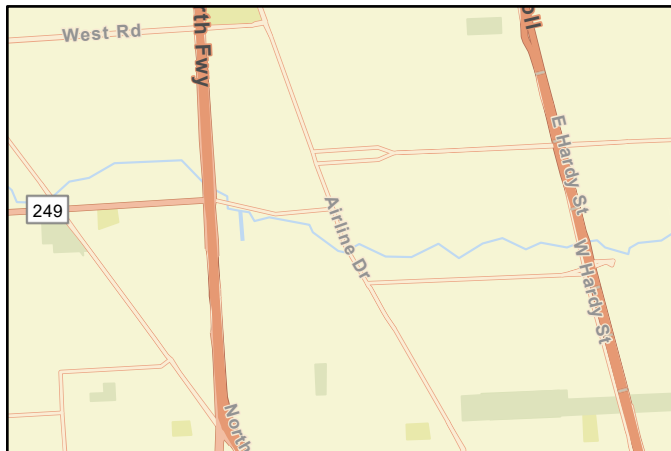
Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$23,679,032 % Nature-Based - BCR 2.18

Recurring costs \$1,420,742 Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title Halls Bayou Drainage Project Bond C-01

ID# 063000470 Sponsor Harris County Flood Control District

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

Provides for design and construction of drainage improvements to P118-26-00 including approximately 119 acre-feet of total storage between two basins and the replacement of a channel with RCBs.

Watershed HUC# (if known) 120401040605,120401040601,12040104030 Emergency Need? No

Drainage area (mi² est.) 52

Associated FME's - County Harris

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

Flood risk type: Riverine? No Coastal? No Local? No Playa? No Other? Yes

Population at risk 1,593 # of structures 677 Critical facilities 0

Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (length) 3

Number of low water crossings 3 Historical road closures 1

100-Year Flood Risk Reduction

Population removed from 100-yr 0 # of structures removed from 100-yr 677

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) 3 Low water crossings removed from 100-yr 1

Other benefits - Reduction in # of road closures over 10 years 1

Impacts

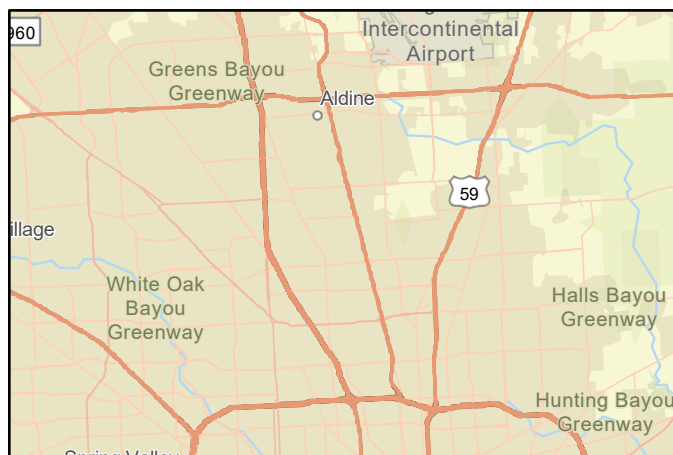
Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$22,385,161 % Nature-Based - BCR 2.31999993

Recurring costs \$710,716 Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title **Houston Fifth Area Flood Mitigation**

ID# **063000417** Sponsor **Houston (Municipality)**

RFPG recommend? **Yes** Reason for Recommendation **Alignment with RFPG goals and TWDB guidance principles.**

Project Description

This unfunded CDBG-MIT application involves installing various storm sewer infrastructure in the Fifth Ward and Market Square areas within the City of Houston.

Watershed HUC# (if known)	120401040701	Emergency Need?	No
		Drainage area (mi ² est.)	41
Associated FME's	999999	County	Harris
Associated FMS's	999999	Associated FMP's	999999

Existing 100-Year Flood Risk

Flood risk type:	Riverine?	No	Coastal?	No	Local?	Yes	Playa?	No	Other?	No
Population at risk	6,289	# of structures	2,162	Critical facilities	19					
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (length)	36							
Number of low water crossings	0	Historical road closures	0							

100-Year Flood Risk Reduction

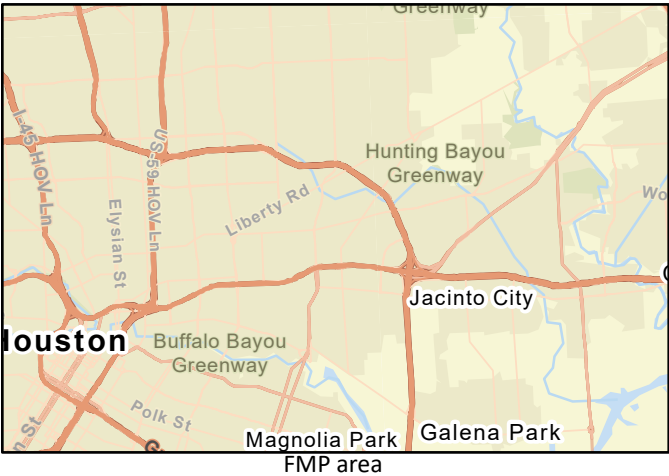
Population removed from 100-yr	4125	# of structures removed from 100-yr	1306
Critical facilities removed from 100-yr	16	Farm/Ranch land removed from 100-yr (acres)	1.751e-05
Road removed from 100-yr (miles)	16	Low water crossings removed from 100-yr	0
Other benefits	-	Reduction in # of road closures over 10 years	0

Impacts

Negative impacts?	No	Negative impacts description	-
Water supply contributions?	No	Water supply contribution description	-

Estimated Cost

Project Cost	\$89,753,487	% Nature-Based	0	BCR	1.87
Recurring costs	\$5,437,724	Issues	-		



Flood Mitigation Project (FMP)



Title **Houston Port Area Flood Mitigation**

ID# **063000418** Sponsor **Houston (Municipality)**

RFPG recommend? **Yes** Reason for Recommendation **Alignment with RFPG goals and TWDB guidance principles.**

Project Description

The project includes storm sewer improvements on nearly every street in the Pleasantville neighborhood to improve conveyance capacity and construction of a detention basin.

Watershed HUC# (if known)	120401040701	Emergency Need?	No
		Drainage area (mi ² est.)	41
Associated FME's	999999	County	Harris
Associated FMS's	999999	Associated FMP's	999999

Existing 100-Year Flood Risk

Flood risk type:	Riverine?	No	Coastal?	No	Local?	Yes	Playa?	No	Other?	No
Population at risk	2,550	# of structures	765	Critical facilities	20					
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (length)	14							
Number of low water crossings	0	Historical road closures	0							

100-Year Flood Risk Reduction

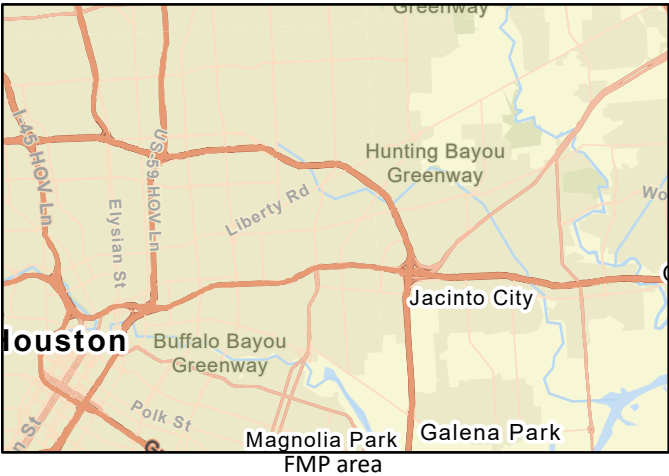
Population removed from 100-yr	1912	# of structures removed from 100-yr	538
Critical facilities removed from 100-yr	0	Farm/Ranch land removed from 100-yr (acres)	0.24239976
Road removed from 100-yr (miles)	2	Low water crossings removed from 100-yr	0
Other benefits	-	Reduction in # of road closures over 10 years	0

Impacts

Negative impacts?	No	Negative impacts description	-
Water supply contributions?	No	Water supply contribution description	-

Estimated Cost

Project Cost	\$99,021,350	% Nature-Based	0	BCR	0.3
Recurring costs	\$5,999,219	Issues	-		



Flood Mitigation Project (FMP)



TitleHouston Kashmere Gardens Area Flood Mitigation

ID#063000434SponsorHouston (Municipality)

RFPG recommend?YesReason for RecommendationAlignment with RFPG goals and TWDB guidance principles.

Project Description

The project includes improvements to storm sewer, roadside ditch systems, culverts, sewer inlets, and the construction of detention basins.

Watershed HUC# (if known)120401040703,120401040604,12040104060Emergency Need?No

Drainage area (mi² est.)31

Associated FME's999999CountyHarris

Associated FMS's999999Associated FMP's999999

Existing 100-Year Flood Risk

Flood risk type:Riverine?NoCoastal?NoLocal?YesPlaya?NoOther?No

Population at risk2,985# of structures1,221Critical facilities5

Farm/Ranch land impacted (acres)-Roadway(s) impacted (length)21

Number of low water crossings0Historical road closures0

100-Year Flood Risk Reduction

Population removed from 100-yr1494# of structures removed from 100-yr457

Critical facilities removed from 100-yr1Farm/Ranch land removed from 100-yr (acres)-

Road removed from 100-yr (miles)0Low water crossings removed from 100-yr0

Other benefits-Reduction in # of road closures over 10 years0

Impacts

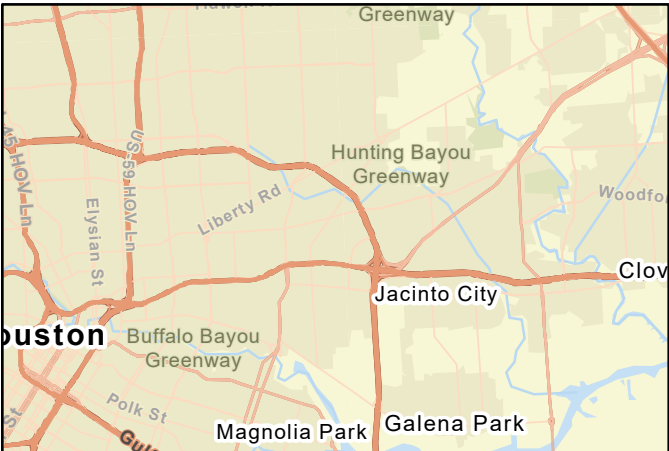
Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

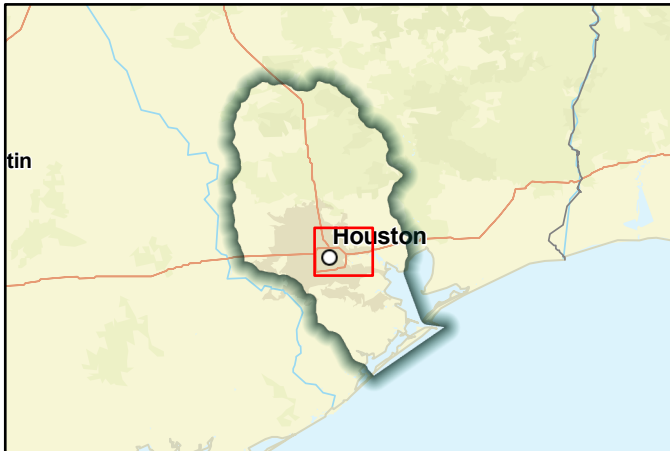
Estimated Cost

Project Cost\$94,879,859% Nature-Based0BCR1.09

Recurring costs\$5,748,306Issues-



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



TitleHouston Sunnyside Area Flood Mitigation

ID#063000468SponsorHouston (Municipality)

RFPG recommend?YesReason for RecommendationAlignment with RFPG goals and TWDB guidance principles.

Project Description

Includes new storm sewer trunk systems on major thoroughfares & new or improved neighborhood storm sewer systems. Will also require construction of detention basins to mitigate the proposed improvements.

Watershed HUC# (if known)120401040402,120401040502,12040104050Emergency Need?No

Drainage area (mi² est.)24

Associated FME's999999CountyHarris

Associated FMS's999999Associated FMP's999999

Existing 100-Year Flood Risk

Flood risk type:Riverine?NoCoastal?NoLocal?YesPlaya?NoOther?No

Population at risk22,844# of structures7,876Critical facilities97

Farm/Ranch land impacted (acres)4Roadway(s) impacted (length)105

Number of low water crossings0Historical road closures0

100-Year Flood Risk Reduction

Population removed from 100-yr4760# of structures removed from 100-yr1410

Critical facilities removed from 100-yr20Farm/Ranch land removed from 100-yr (acres)0.03077

Road removed from 100-yr (miles)9Low water crossings removed from 100-yr0

Other benefits -Reduction in # of road closures over 10 years0

Impacts

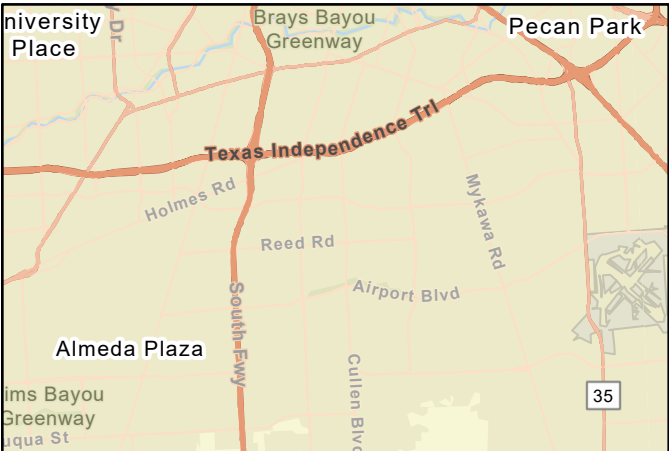
Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

Estimated Cost

Project Cost\$111,281,647% Nature-Based0BCR1.2

Recurring costs\$551,258Issues-



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title City of Alvin Unified Development Ordinance

ID# 063000201 Sponsor Alvin (Municipality)

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

A unified land development code combines all land use controls into a single document with a logical structure that is user friendly. Cost is time, data and preparation of a unified land development code.

Watershed HUC# (if known) 120402040300,120402040200,12040204040

Emergency Need? No

Drainage area (mi² est.) 25

Associated FME's 999999

County Brazoria,Galveston,Fort Bend

Associated FMS's 999999

Associated FMP's 999999

Existing 100-Year Flood Risk

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

Population at risk 15,192 # of structures 3,445 Critical facilities 18

Farm/Ranch land impacted (acres) - Roadway(s) impacted (length) 57

Number of low water crossings 0 Historical road closures 0

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

Impacts

Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

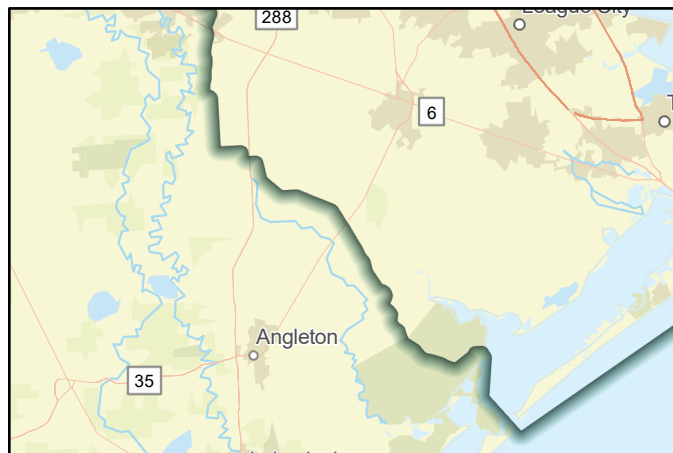
Project Cost \$100,000

% Nature-Based 0

BCR 5

Recurring costs \$5,059

Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title **Danubina Drainage Improvements**

ID# **063000422** Sponsor **Baytown (Municipality)**

RFPG recommend? **Yes** Reason for Recommendation **Alignment with RFPG goals and TWDB guidance principles.**

Project Description

This CDBG-MIT application involves the installation and construction of improvements along Hull Gully, detention, and storm sewer improvements along Hunnicutt Street.

Watershed HUC# (if known) - Emergency Need? **No**

Drainage area (mi² est.) **48**

Associated FME's - County **Chambers,Harris**

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

Flood risk type: Riverine? **No** Coastal? **No** Local? **Yes** Playa? **No** Other? **No**

Population at risk **428** # of structures **137** Critical facilities **0**

Farm/Ranch land impacted (acres) - Roadway(s) impacted (length) **5**

Number of low water crossings **0** Historical road closures -

100-Year Flood Risk Reduction

Population removed from 100-yr **304** # of structures removed from 100-yr **111**

Critical facilities removed from 100-yr **0** Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) **10** Low water crossings removed from 100-yr **0**

Other benefits - Reduction in # of road closures over 10 years **0**

Impacts

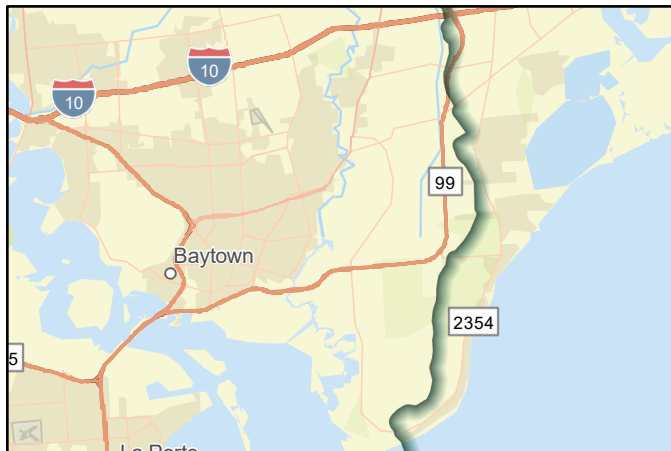
Negative impacts? **No** Negative impacts description -

Water supply contributions? - Water supply contribution description -

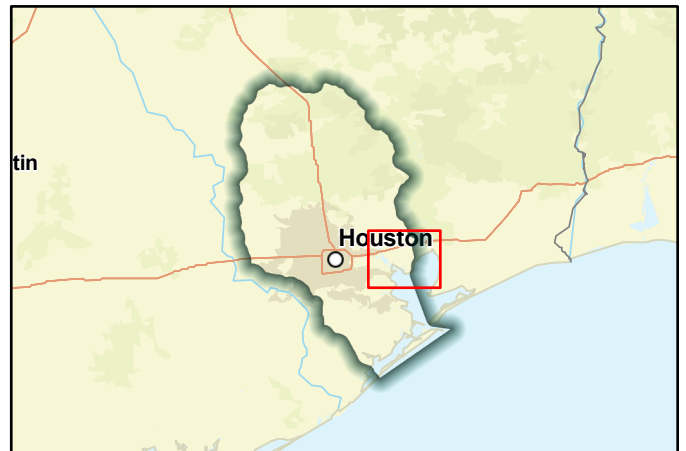
Estimated Cost

Project Cost **\$18,467,088** % Nature-Based - BCR **0.96**

Recurring costs - Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



TitleGalveston Bay Surge Protection Coastal Storm Risk Management

ID#063000127SponsorGulf Coast Protection District

RFPG recommend?YesReason for RecommendationAlignment with RFPG goals and TWDB guidance principles.

Project Description

Federal projects identified in the Texas Coastal Study (2021) including Boliver Gates, Galveston Sea Wall Improvements, Ecosystem Restoration, Galveston Ring Barrier system, Clear Creek & Dickinson Bayou Gates, and non-structural measures.

Watershed HUC# (if known)120401030201,120401030108,12040103010Emergency Need?Yes

Drainage area (mi² est.)1,905

Associated FME's999999CountyBrazoria,Galveston,Fort Bend,Chambers,Harris,Liberty

Associated FMS's999999Associated FMP's999999

Existing 100-Year Flood Risk

Flood risk type:Riverine?NoCoastal?YesLocal?NoPlaya?NoOther?No

Population at risk266,742# of structures103,716Critical facilities3,158

Farm/Ranch land impacted (acres)10,544Roadway(s) impacted (length)1,681

Number of low water crossings39Historical road closures39

100-Year Flood Risk Reduction

Population removed from 100-yr346773# of structures removed from 100-yr75744

Critical facilities removed from 100-yr2086Farm/Ranch land removed from 100-yr (acres)4693.63183594

Road removed from 100-yr (miles)1056Low water crossings removed from 100-yr16

Other benefitsEnvironmental, Public Uplift, Low ImpactReduction in # of road closures over 10 years16

Impacts

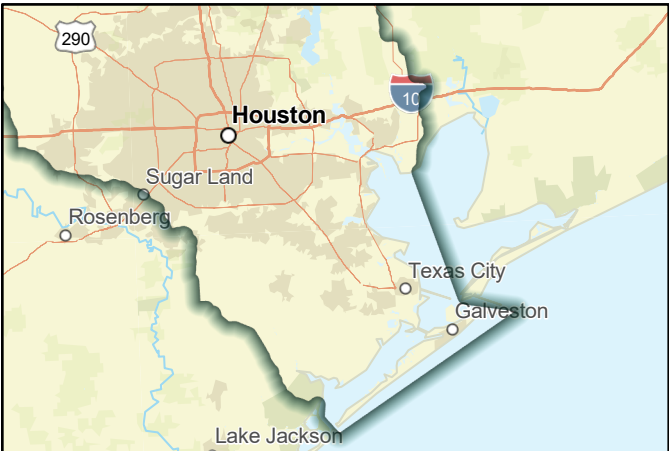
Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

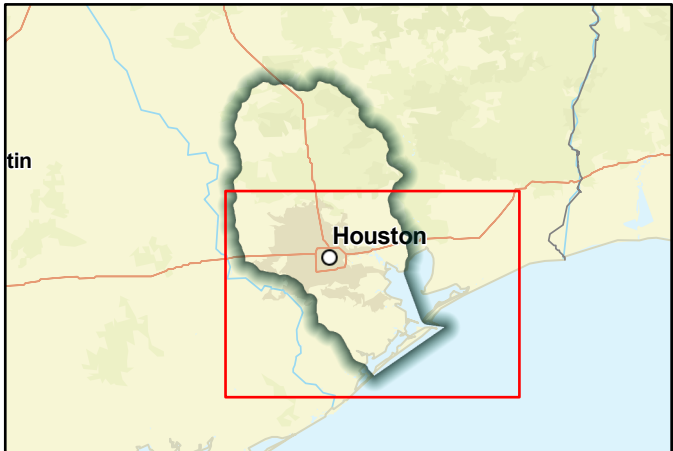
Estimated Cost

Project Cost\$24,107,064,000% Nature-Based0BCR1.90999997

Recurring costs\$1,399,698,560IssuesRight-of-Way, Permitting, Acquisitions, Relocations, Environmental Concerns



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



TitleBolivar Peninsula and West Bay Gulf Intracoastal Waterway (GIWW) Shoreline and Island Protection

ID#063000128SponsorGulf Coast Protection District

RFPG recommend?NoReason for RecommendationYields no direct flood risk reduction benefits and does not have a BCR.

Project Description

Ecosystem restoration efforts planned along the GIWW such as the restoration of wetlands and islands, construction of breakwaters, and oyster reef scaling will provide natural buffer from coastal storm surge and prevent erosion.

Watershed HUC# (if known)120401030201,120401030108,12040103010Emergency Need?Yes

Drainage area (mi² est.)1,559

Associated FME's999999CountyBrazoria,Galveston,Fort Bend,Chambers,Harris,Liberty

Associated FMS's999999Associated FMP's063000127

Existing 100-Year Flood Risk

Flood risk type:Riverine?NoCoastal?YesLocal?NoPlaya?NoOther?No

Population at risk423,473# of structures141,236Critical facilities2,320

Farm/Ranch land impacted (acres)13,922Roadway(s) impacted (length)2,432

Number of low water crossings82Historical road closures82

100-Year Flood Risk Reduction

Population removed from 100-yr-# of structures removed from 100-yr-

Critical facilities removed from 100-yr-Farm/Ranch land removed from 100-yr (acres)-

Road removed from 100-yr (miles)-Low water crossings removed from 100-yr-

Other benefitsEnvironmental, Low Impact Development FeaturesReduction in # of road closures over 10 years-

Impacts

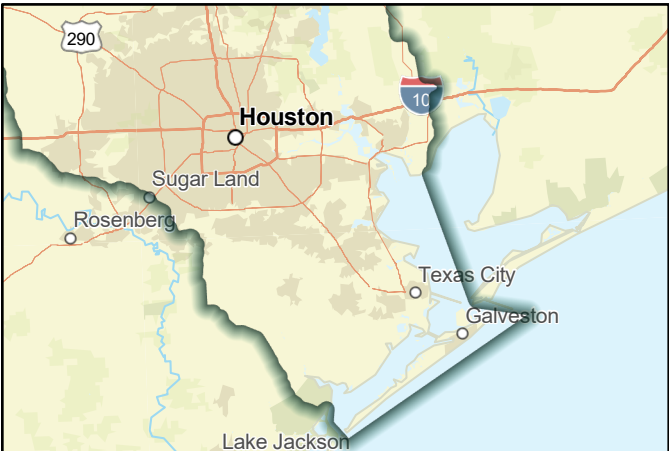
Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

Estimated Cost

Project Cost\$1,200,169,000% Nature-Based100BCR-

Recurring costs\$72,712,360IssuesRight-of-Way, Permitting, Relocations



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title **Warren Lake and Dam Retrofit**

ID# **063000320** Sponsor **Coastal Prairie Conservancy**

RFPG recommend? **Yes** Reason for Recommendation **Alignment with RFPG goals and TWDB guidance principles.**

Project Description

Retrofit dam to improve detention of flood & storm water runoff, new 137.3 ac wetlands complex added of storage capacity & conversion of fields to tallgrass prairies to add approximately 856 ac-ft of total storage during rainfall events.

Watershed HUC# (if known) **120401020103** Emergency Need? **No**
Drainage area (mi² est.) **2**
Associated FME's **999999** County **Harris**
Associated FMS's **999999** Associated FMP's **999999**

Existing 100-Year Flood Risk

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**
Population at risk **94** # of structures **47** Critical facilities **0**
Farm/Ranch land impacted (acres) **183** Roadway(s) impacted (length) **-**
Number of low water crossings **0** Historical road closures **-**

100-Year Flood Risk Reduction

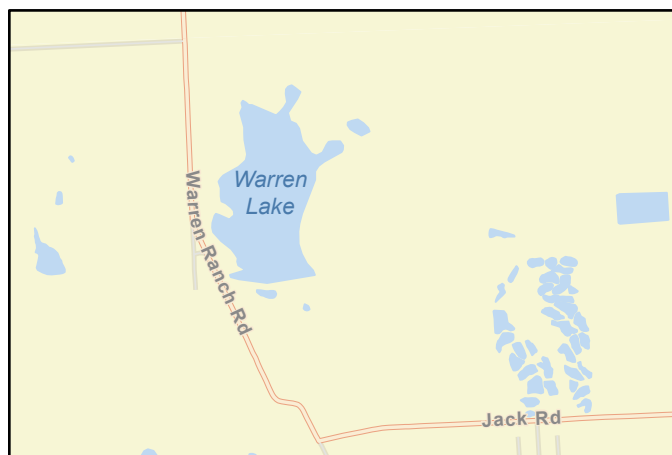
Population removed from 100-yr **94** # of structures removed from 100-yr **47**
Critical facilities removed from 100-yr **0** Farm/Ranch land removed from 100-yr (acres) **0**
Road removed from 100-yr (miles) **0** Low water crossings removed from 100-yr **0**
Other benefits **-** Reduction in # of road closures over 10 years **0**

Impacts

Negative impacts? **No** Negative impacts description **-**
Water supply contributions? **No** Water supply contribution description **-**

Estimated Cost

Project Cost **\$6,438,252** % Nature-Based **-** BCR **4.45**
Recurring costs **-** Issues **-**



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title Peach Creek - Channelization at IH-69 & Detention at SH105 + Walker Creek

ID# 063000061 Sponsor Montgomery (County)

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

Widen 4.3-mile-long stretch to increase conveyance capacity. Must be completed with 4.7-mile-long detention at SH105 and 3.2-mile-long at Walker Creek to reduce flooding in Peach Creek watershed.

Watershed HUC# (if known) 120401030110,120401030102,12040103010 Emergency Need? Yes

Drainage area (mi² est.) 158

Associated FME's 999999 County Liberty, Montgomery, San Jacinto, Walker

Associated FMS's 999999 Associated FMP's 999999

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

Population at risk 2,166 # of structures 1,516 Critical facilities 1

Farm/Ranch land impacted (acres) 16 Roadway(s) impacted (length) 45

Number of low water crossings 6 Historical road closures 6

100-Year Flood Risk Reduction

Population removed from 100-yr 1855 # of structures removed from 100-yr 1146

Critical facilities removed from 100-yr 1 Farm/Ranch land removed from 100-yr (acres) 2.85938144

Road removed from 100-yr (miles) 24 Low water crossings removed from 100-yr 0

Other benefits - Reduction in # of road closures over 10 years 0

Impacts

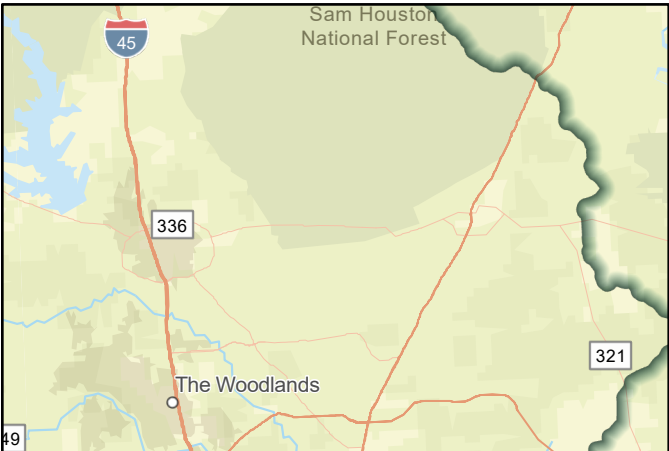
Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$810,000,000 % Nature-Based 0 BCR 0.25999999

Recurring costs \$48,657,712 Issues Right-of-Way, Permitting, Acquisitions, Relocations, Utility Conflicts



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title Spring Creek - Woodland (200-ft) and I-45 Channelization with detention at Birch Creek and Walnut Creek

ID# 063000062 Sponsor Montgomery (County)

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

8.9-mile, 200-foot-wide benched improvement 4-feet above the flowline of Woodlands channel and 6.9-mile, 300-foot-wide benched improvement 4 feet above I-45 channel. Must be completed with detention on Birch Creek and Walnut Creek.

Watershed HUC# (if known) 120401030110,120401030102,12040103010 Emergency Need? Yes

Drainage area (mi² est.) 386

Associated FME's 999999 County Harris,Waller,Montgomery,Grimes

Associated FMS's 999999 Associated FMP's 999999

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

Population at risk 17,764 # of structures 7,487 Critical facilities 15

Farm/Ranch land impacted (acres) 132 Roadway(s) impacted (length) 121

Number of low water crossings 7 Historical road closures 7

100-Year Flood Risk Reduction

Population removed from 100-yr 18240 # of structures removed from 100-yr 5479

Critical facilities removed from 100-yr 8 Farm/Ranch land removed from 100-yr (acres) 12.82583237

Road removed from 100-yr (miles) 69 Low water crossings removed from 100-yr 0

Other benefits - Reduction in # of road closures over 10 years 0

Impacts

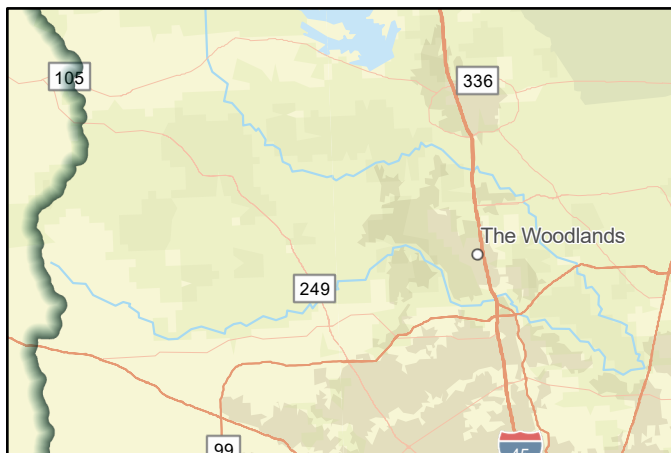
Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$393,000,000 % Nature-Based 0 BCR 0.73000002

Recurring costs \$23,310,180 Issues Right-of-Way, Permitting, Acquisitions, Utility Conflicts, Transportation Conflicts



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title Caney Creek - Channelization at IH-69 & Detention at FM1097 + SH105

ID# 063000058 Sponsor Montgomery (County)

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

Reduce flooding in the Caney Creek watershed by benching/widening a 7.8-mile-long stretch to increase conveyance capacity. Must be constructed with detention at FM1097 or detention at SH105 to capture runoff from Caney Creek.

Watershed HUC# (if known) -

Emergency Need? Yes

Drainage area (mi² est.) 371

Associated FME's 999999

County Harris,Liberty,Montgomery,San Jacinto,Walker

Associated FMS's 999999

Associated FMP's 999999

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

Population at risk 5,370 # of structures 3,641 Critical facilities 1

Farm/Ranch land impacted (acres) 79 Roadway(s) impacted (length) 91

Number of low water crossings 9 Historical road closures 9

100-Year Flood Risk Reduction

Population removed from 100-yr 4049 # of structures removed from 100-yr 2422

Critical facilities removed from 100-yr 1 Farm/Ranch land removed from 100-yr (acres) 27.31976891

Road removed from 100-yr (miles) 42 Low water crossings removed from 100-yr 0

Other benefits - Reduction in # of road closures over 10 years 0

Impacts

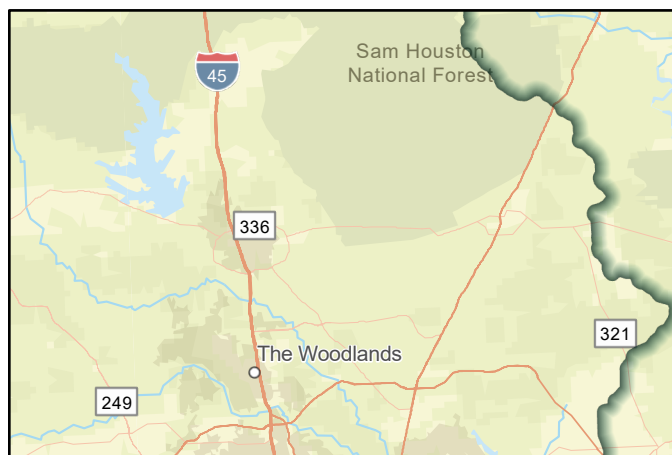
Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$469,000,000 % Nature-Based 0 BCR 0.30000001

Recurring costs \$31,939,132 Issues Right-of-Way, Permitting, Acquisitions, Utility Conflicts, Transportation



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title Lake Creek - Detention on Garretts Creek, Little Caney Creek, & Caney Creek

ID# 063000060 Sponsor Montgomery (County)

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

The goal of the detention ponds is to reduce flooding in the Lake Creek and West Fork watersheds by constructing earthen impoundments that captures runoff from Garrett’s Creek, Caney Creek, & Little Caney Creek.

Watershed HUC# (if known) 120401010101,120401010301,12040101030 Emergency Need? Yes
Drainage area (mi² est.) 104
Associated FME's 999999 County Montgomery,Grimes
Associated FMS's 999999 Associated FMP's 999999

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No
Population at risk 449 # of structures 479 Critical facilities 0
Farm/Ranch land impacted (acres) 198 Roadway(s) impacted (length) 18
Number of low water crossings 5 Historical road closures 5

100-Year Flood Risk Reduction

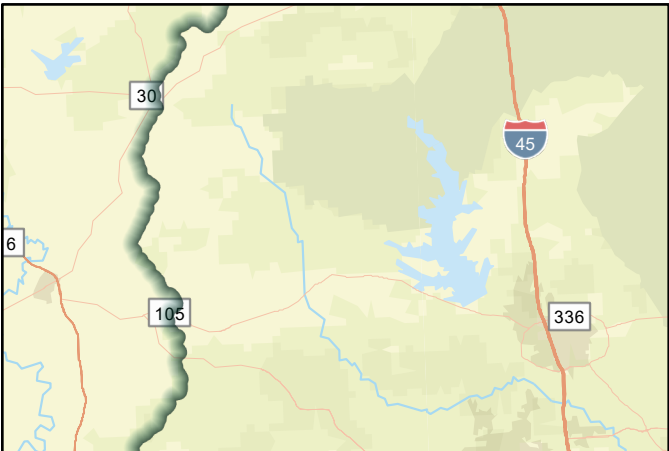
Population removed from 100-yr 383 # of structures removed from 100-yr 355
Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) -4.00026083
Road removed from 100-yr (miles) 5 Low water crossings removed from 100-yr 1
Other benefits - Reduction in # of road closures over 10 years 1

Impacts

Negative impacts? No Negative impacts description -
Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$291,000,000 % Nature-Based 0 BCR 0.25999999
Recurring costs \$7,849,952 Issues Right-of-Way, Permitting, Acquisitions, Relocations, Utility Conflicts



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

The proposed drainage improvements project will replace an undersized drainage system on Blalock Road, tie into drainage improvements on South Piney Point Road, and provide improvements on a drainage area that frequently experiences drainage issues.

Watershed HUC# (if known)	<input type="text" value="120401040303"/>	Emergency Need?	<input type="text" value="No"/>
		Drainage area (mi ² est.)	<input type="text" value="1"/>
Associated FME's	<input type="text" value="-"/>	County	<input type="text" value="Harris"/>
Associated FMS's	<input type="text" value="-"/>	Associated FMP's	<input type="text" value="-"/>

Existing 100-Year Flood Risk

Flood risk type:	Riverine? <input type="text" value="Yes"/>	Coastal? <input type="text" value="No"/>	Local? <input type="text" value="Yes"/>	Playa? <input type="text" value="No"/>	Other? <input type="text" value="No"/>
Population at risk	<input type="text" value="1,519"/>	# of structures	<input type="text" value="364"/>	Critical facilities	<input type="text" value="0"/>
Farm/Ranch land impacted (acres)	<input type="text" value="-"/>	Roadway(s) impacted (length)	<input type="text" value="6"/>		
Number of low water crossings	<input type="text" value="0"/>	Historical road closures	<input type="text" value="-"/>		

100-Year Flood Risk Reduction

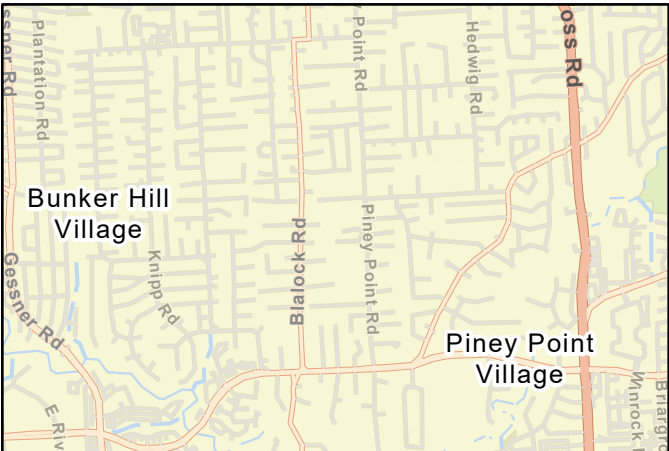
Population removed from 100-yr	<input type="text" value="498"/>	# of structures removed from 100-yr	<input type="text" value="54"/>
Critical facilities removed from 100-yr	<input type="text" value="0"/>	Farm/Ranch land removed from 100-yr (acres)	<input type="text" value="-"/>
Road removed from 100-yr (miles)	<input type="text" value="1"/>	Low water crossings removed from 100-yr	<input type="text" value="0"/>
Other benefits	<input type="text" value="-"/>	Reduction in # of road closures over 10 years	<input type="text" value="0"/>

Impacts

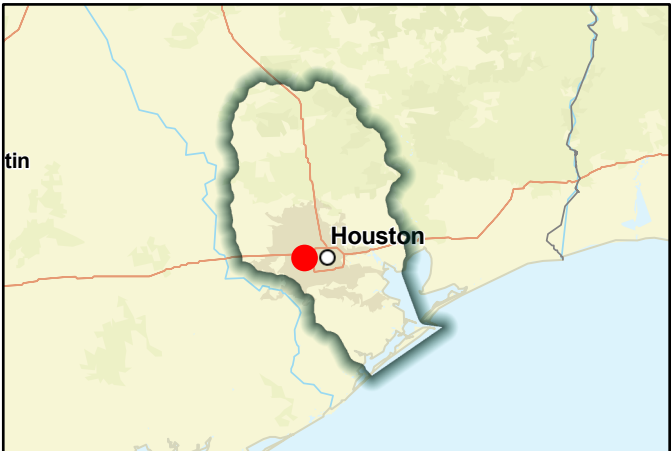
Negative impacts?	<input type="text" value="No"/>	Negative impacts description	<input type="text" value="-"/>
Water supply contributions?	<input type="text" value="-"/>	Water supply contribution description	<input type="text" value="-"/>

Estimated Cost

Project Cost	<input type="text" value="\$19,323,500"/>	% Nature-Based	<input type="text" value="-"/>	BCR	<input type="text" value="0"/>
Recurring costs	<input type="text" value="\$1,170,700"/>	Issues	<input type="text" value="-"/>		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



TitleCity of Cleveland Ordinance Update Pipeline Right-of-Way

ID#063000126SponsorCleveland (Municipality)

RFPG recommend?NoReason for RecommendationYields no direct flood risk reduction benefits and does not have a BCR.

Project Description

Adopt 25-foot setback from pipeline right-of-way.

Watershed HUC# (if known)120401030201,120401030108,12040103010Emergency Need?No

Drainage area (mi² est.)19

Associated FME's999999CountyLiberty,Montgomery,San Jacinto

Associated FMS's999999Associated FMP's999999

Existing 100-Year Flood Risk

Flood risk type:Riverine?NoCoastal?NoLocal?YesPlaya?NoOther?No

Population at risk1,037# of structures261Critical facilities0

Farm/Ranch land impacted (acres)29Roadway(s) impacted (length)27

Number of low water crossings1Historical road closures1

100-Year Flood Risk Reduction

Population removed from 100-yr-# of structures removed from 100-yr-

Critical facilities removed from 100-yr-Farm/Ranch land removed from 100-yr (acres)-

Road removed from 100-yr (miles)-Low water crossings removed from 100-yr-

Other benefits -Reduction in # of road closures over 10 years-

Impacts

Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

Estimated Cost

Project Cost\$55,000% Nature-Based0BCR-

Recurring costs\$2,783IssuesRight-of-Way



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title City of Cleveland Floodplain Land-Use Ordinance

ID# 063000123 Sponsor Cleveland (Municipality)

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

The city shall adopt a land-use ordinance which prohibits building residential or commercial structures in the 100-year floodplain.

Watershed HUC# (if known) 120401030201,120401030108,12040103010 Emergency Need? No
Drainage area (mi² est.) 19
Associated FME's 999999 County Liberty, Montgomery, San Jacinto
Associated FMS's 999999 Associated FMP's 999999

Existing 100-Year Flood Risk

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No
Population at risk 1,037 # of structures 261 Critical facilities 0
Farm/Ranch land impacted (acres) 29 Roadway(s) impacted (length) 27
Number of low water crossings 1 Historical road closures 1

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -
Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -
Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -
Other benefits - Reduction in # of road closures over 10 years -

Impacts

Negative impacts? No Negative impacts description -
Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$109,000 % Nature-Based 0 BCR 5
Recurring costs \$5,514 Issues Relocations



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title City of Cleveland Floodplain Ordinance Update

ID# 063000124 Sponsor Cleveland (Municipality)

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

Adopt a land use ordinance which requires any structure within the 100-year floodplain to be elevated 2 feet.

Watershed HUC# (if known) 120401030201,120401030108,12040103010

Emergency Need? No

Drainage area (mi² est.) 19

Associated FME's 999999

County Liberty, Montgomery, San Jacinto

Associated FMS's 999999

Associated FMP's 999999

Existing 100-Year Flood Risk

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

Population at risk 1,037 # of structures 261 Critical facilities 0

Farm/Ranch land impacted (acres) 29 Roadway(s) impacted (length) 27

Number of low water crossings 1 Historical road closures 1

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

Impacts

Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$109,000 % Nature-Based 0 BCR -

Recurring costs \$5,514 Issues Permitting



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title Mary's Creek Lower, Middle, and Upper Segment

ID# 063000056 Sponsor Pearland (Municipality)

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

A part of the Pearland Master Drainage Plan (2019), this channel improvement alternative includes channel benching to increase conveyance capacity, bridge/culvert replacement to remove hydraulic restrictions, and regional detention to provide mitigation.

Watershed HUC# (if known) 120402040100

Emergency Need? No

Drainage area (mi² est.) 17

Associated FME's -

County Brazoria, Galveston

Associated FMS's -

Associated FMP's -

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

Population at risk 10,044 # of structures 2,711 Critical facilities 9

Farm/Ranch land impacted (acres) - Roadway(s) impacted (length) 54

Number of low water crossings 1 Historical road closures -

100-Year Flood Risk Reduction

Population removed from 100-yr 7614 # of structures removed from 100-yr 2324

Critical facilities removed from 100-yr 6 Farm/Ranch land removed from 100-yr (acres) 8.499667

Road removed from 100-yr (miles) 34 Low water crossings removed from 100-yr 1

Other benefits - Reduction in # of road closures over 10 years -

Impacts

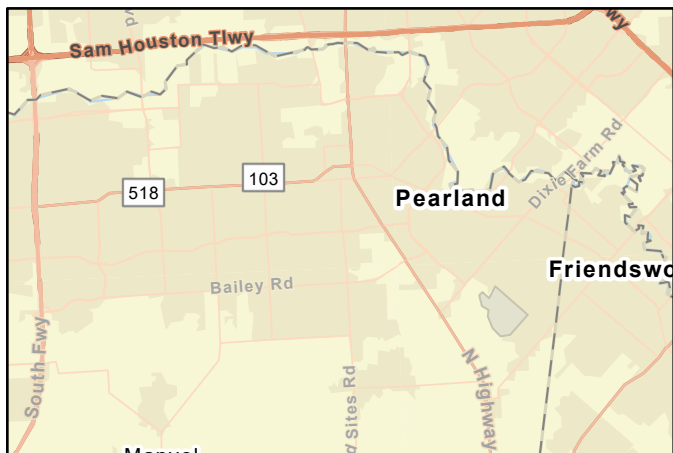
Negative impacts? No Negative impacts description -

Water supply contributions? - Water supply contribution description -

Estimated Cost

Project Cost \$154,039,904 % Nature-Based - BCR 0.16

Recurring costs \$9,322,532 Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Watershed HUC# (if known)	<input type="text" value="120402040200"/>	Emergency Need?	<input type="text" value="No"/>
		Drainage area (mi² est.)	<input type="text" value="0"/>
Associated FME's	<input type="text" value="999999"/>	County	<input type="text" value="Galveston"/>
Associated FMS's	<input type="text" value="999999"/>	Associated FMP's	<input type="text" value="999999"/>

Existing 100-Year Flood Risk

Flood risk type:	Riverine? <input type="text" value="No"/>	Coastal? <input type="text" value="No"/>	Local? <input type="text" value="Yes"/>	Playa? <input type="text" value="No"/>	Other? <input type="text" value="No"/>
Population at risk	<input type="text" value="1,476"/>	# of structures	<input type="text" value="1,122"/>	Critical facilities	<input type="text" value="3"/>
Farm/Ranch land impacted (acres)	<input type="text" value="-"/>	Roadway(s) impacted (length)	<input type="text" value="8"/>		
Number of low water crossings	<input type="text" value="-"/>	Historical road closures	<input type="text" value="-"/>		

100-Year Flood Risk Reduction

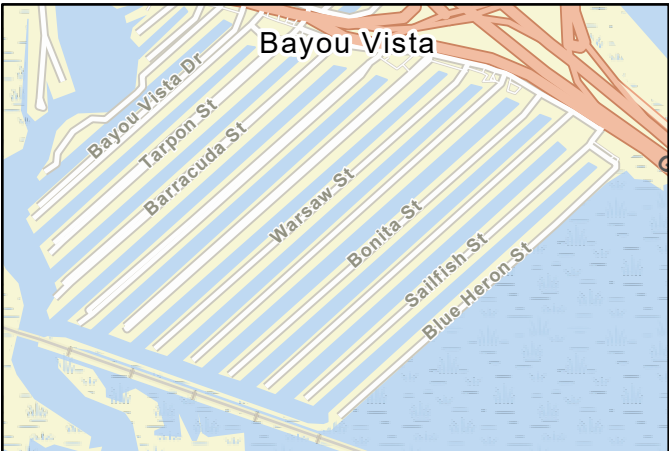
Population removed from 100-yr	<input type="text" value="-"/>	# of structures removed from 100-yr	<input type="text" value="-"/>
Critical facilities removed from 100-yr	<input type="text" value="-"/>	Farm/Ranch land removed from 100-yr (acres)	<input type="text" value="-"/>
Road removed from 100-yr (miles)	<input type="text" value="-"/>	Low water crossings removed from 100-yr	<input type="text" value="-"/>
Other benefits	<input type="text" value="-"/>	Reduction in # of road closures over 10 years	<input type="text" value="-"/>

Impacts

Negative impacts?	<input type="text" value="No"/>	Negative impacts description	<input type="text" value="-"/>
Water supply contributions?	<input type="text" value="No"/>	Water supply contribution description	<input type="text" value="-"/>

Estimated Cost

Project Cost	<input type="text" value="\$109,000"/>	% Nature-Based	<input type="text" value="0"/>	BCR	<input type="text" value="5"/>
Recurring costs	<input type="text" value="\$5,514"/>	Issues	<input type="text" value="Permitting"/>		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title City of Clear Lake Shores - Implement Stormwater Management Practices

ID# 063000139 Sponsor Clear Lake Shores (Municipality)

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

The Stormwater management plan is focused on six minimum measures regarding what is being done to prevent stormwater pollution. Annual reporting and renewals are required to ensure compliance is met.

Watershed HUC# (if known) 120402040100

Emergency Need? No

Drainage area (mi² est.) 1

Associated FME's 999999

County Galveston,Harris

Associated FMS's 999999

Associated FMP's 999999

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

Population at risk 2,597 # of structures 633 Critical facilities 4

Farm/Ranch land impacted (acres) - Roadway(s) impacted (length) 9

Number of low water crossings 0 Historical road closures 0

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits Environmental Reduction in # of road closures over 10 years -

Impacts

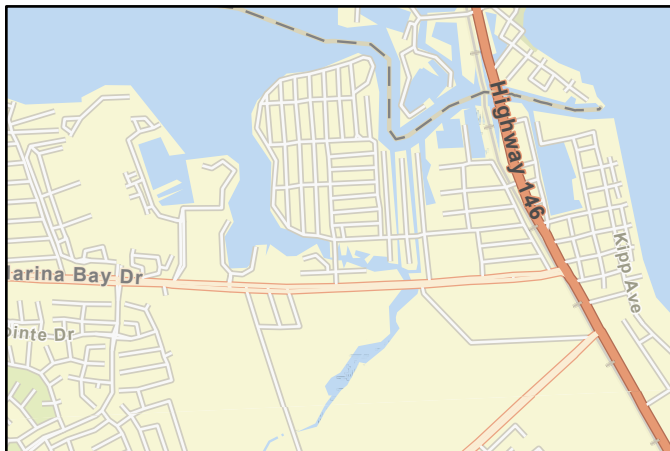
Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$109,000 % Nature-Based 0 BCR -

Recurring costs \$5,514 Issues Right-of-Way, Permitting



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title City of Clear Lake Shores - Improve Regulations and Permit Requirements

ID# 063000140 Sponsor Clear Lake Shores (Municipality)

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

Update regulations and permit requirements.

Watershed HUC# (if known) 120402040100

Emergency Need? No

Drainage area (mi² est.) 1

Associated FME's 999999

County Galveston,Harris

Associated FMS's 999999

Associated FMP's 999999

Existing 100-Year Flood Risk

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

Population at risk 2,597 # of structures 633 Critical facilities 4

Farm/Ranch land impacted (acres) - Roadway(s) impacted (length) 9

Number of low water crossings 0 Historical road closures 0

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

Impacts

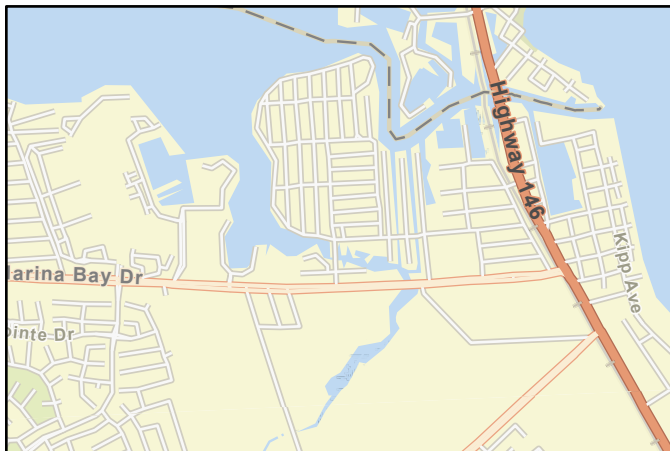
Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$109,000 % Nature-Based 0 BCR 5

Recurring costs \$5,514 Issues Permitting



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

TitleCity of Galveston Land Use Mapping

ID#063000152SponsorGalveston (Municipality)

RFPG recommend?YesReason for RecommendationAlignment with RFPG goals and TWDB guidance principles.

Project Description

Develop proposed land use mapping to allow easier consideration of hazards.

Watershed HUC# (if known)120402040300,120402040200,12040204040Emergency Need?No

Drainage area (mi² est.)211

Associated FME's999999CountyGalveston

Associated FMS's999999Associated FMP's999999

Existing 100-Year Flood Risk

Flood risk type:Riverine?NoCoastal?NoLocal?YesPlaya?NoOther?No

Population at risk64,300# of structures21,858Critical facilities509

Farm/Ranch land impacted (acres)-Roadway(s) impacted (length)409

Number of low water crossings0Historical road closures0

100-Year Flood Risk Reduction

Population removed from 100-yr-# of structures removed from 100-yr-

Critical facilities removed from 100-yr-Farm/Ranch land removed from 100-yr (acres)-

Road removed from 100-yr (miles)-Low water crossings removed from 100-yr-

Other benefits-Reduction in # of road closures over 10 years-

Impacts

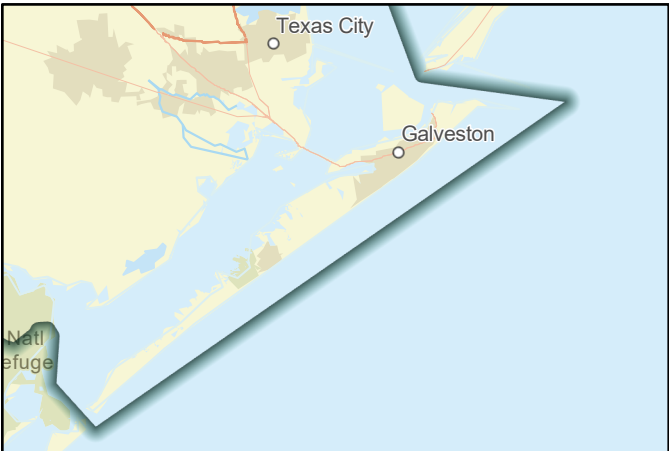
Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

Estimated Cost

Project Cost\$11,000% Nature-Based0BCR-

Recurring costs\$557Issues-



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

TitleCity of Galveston Freeboard Requirement Enforcement

ID#063000153SponsorGalveston (Municipality)

RFPG recommend?YesReason for RecommendationAlignment with RFPG goals and TWDB guidance principles.

Project Description

Consider adoption and enforcement of freeboard requirement into City's Flood Damage Prevention Ordinance.

Watershed HUC# (if known)120402040300,120402040200,12040204040Emergency Need?No

Drainage area (mi² est.)211

Associated FME's999999CountyGalveston

Associated FMS's999999Associated FMP's999999

Existing 100-Year Flood Risk

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

Population at risk64,300# of structures21,858Critical facilities509

Farm/Ranch land impacted (acres)-Roadway(s) impacted (length)409

Number of low water crossings0Historical road closures0

100-Year Flood Risk Reduction

Population removed from 100-yr-# of structures removed from 100-yr-

Critical facilities removed from 100-yr-Farm/Ranch land removed from 100-yr (acres)-

Road removed from 100-yr (miles)-Low water crossings removed from 100-yr-

Other benefits-Reduction in # of road closures over 10 years-

Impacts

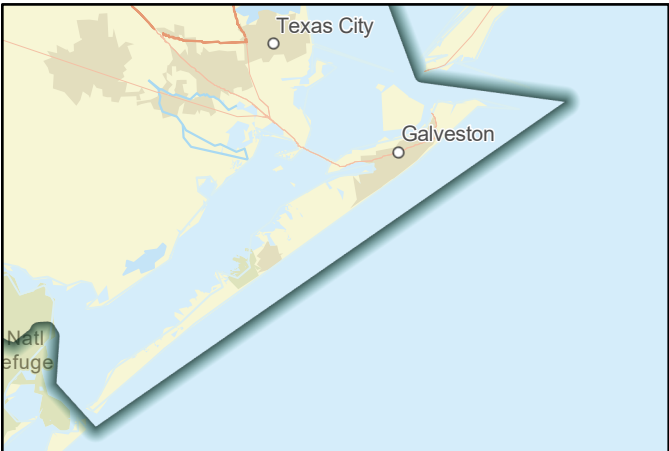
Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

Estimated Cost

Project Cost\$100,000% Nature-Based0BCR5

Recurring costs\$5,059IssuesRight-of-Way, Permitting



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title37th Street Improvement Project

ID#063000311SponsorGalveston (Municipality)

RFPG recommend?YesReason for RecommendationAlignment with RFPG goals and TWDB guidance principles.

Project Description

The project proposes storm sewer improvements coupled with implementing a stormwater pump station to addressing 100-year event flooding and improve access to major evacuation routes.

Watershed HUC# (if known)-Emergency Need?No

Drainage area (mi² est.)212

Associated FME's999999CountyGalveston

Associated FMS's999999Associated FMP's999999

Existing 100-Year Flood Risk

Flood risk type:Riverine?NoCoastal?YesLocal?NoPlaya?NoOther?No

Population at risk3,732# of structures146Critical facilities8

Farm/Ranch land impacted (acres)-Roadway(s) impacted (length)5

Number of low water crossings-Historical road closures-

100-Year Flood Risk Reduction

Population removed from 100-yr3741# of structures removed from 100-yr146

Critical facilities removed from 100-yr8Farm/Ranch land removed from 100-yr (acres)-

Road removed from 100-yr (miles)-Low water crossings removed from 100-yr-

Other benefits-Reduction in # of road closures over 10 years-

Impacts

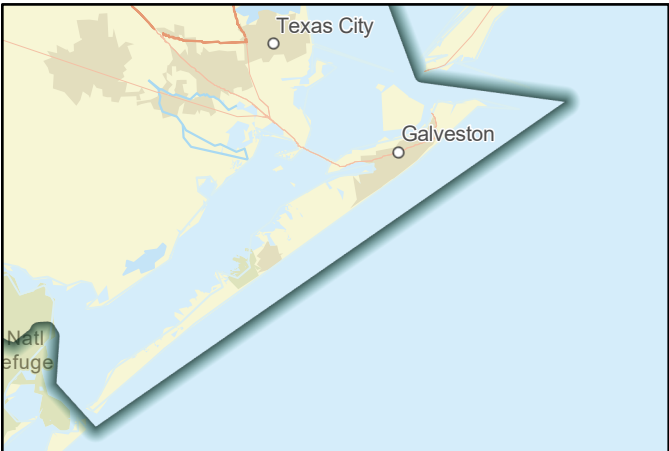
Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

Estimated Cost

Project Cost\$75,000,000% Nature-Based0BCR0.08

Recurring costs\$290,000Issues-



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title City of Jamaica Beach - Improve Regulations and Permit Requirements

ID# 063000143 Sponsor Jamaica Beach (Municipality)

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

Improve regulations and permit requirements to promote hazard mitigation strategies.

Watershed HUC# (if known) 120402040300

Emergency Need? No

Drainage area (mi² est.) 1

Associated FME's 999999

County Galveston

Associated FMS's 999999

Associated FMP's 999999

Existing 100-Year Flood Risk

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

Population at risk 275 # of structures 1,276 Critical facilities 4

Farm/Ranch land impacted (acres) - Roadway(s) impacted (length) 14

Number of low water crossings - Historical road closures -

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

Impacts

Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$109,000

% Nature-Based 0

BCR 5

Recurring costs \$5,514

Issues Permitting



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title City of Friendswood Ordinances and Regulation Update

ID# 063000113 Sponsor Friendswood (Municipality)

RFPG recommend? No Reason for Recommendation Project has been completed.

Project Description

Adopt higher codes and update ordinances and regulation to promote hazard mitigation strategies.

Watershed HUC# (if known) 120402040200,120402040100 Emergency Need? No
Drainage area (mi² est.) 21
Associated FME's 999999 County Galveston,Harris
Associated FMS's 999999 Associated FMP's 999999

Existing 100-Year Flood Risk

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No
Population at risk 4,640 # of structures 1,680 Critical facilities 2
Farm/Ranch land impacted (acres) 18 Roadway(s) impacted (length) 38
Number of low water crossings 5 Historical road closures 5

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -
Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -
Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -
Other benefits - Reduction in # of road closures over 10 years -

Impacts

Negative impacts? No Negative impacts description -
Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$109,000 % Nature-Based 0 BCR 5
Recurring costs \$5,514 Issues Right-of-Way, Permitting



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title City of Friendswood - Clear Creek Inline & Offline Detention - Bay Area Blvd. Phase I

ID# 063000424 Sponsor Friendswood (Municipality)

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

This project, which includes terraces, detention, and a trail network, will reduce water surface elevations on Clear Creek within the City of Friendswood and will make the Blackhawk Wastewater Treatment Facility more resilient.

Watershed HUC# (if known) 120402040200,120402040100

Emergency Need? No

Drainage area (mi² est.) 21

Associated FME's 999999

County Galveston,Harris

Associated FMS's 999999

Associated FMP's 999999

Existing 100-Year Flood Risk

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

Population at risk 16,927 # of structures 4,952 Critical facilities 189

Farm/Ranch land impacted (acres) 728 Roadway(s) impacted (length) 575

Number of low water crossings 11 Historical road closures 11

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr 172

Critical facilities removed from 100-yr 2 Farm/Ranch land removed from 100-yr (acres) 2.84645985

Road removed from 100-yr (miles) 7 Low water crossings removed from 100-yr 0

Other benefits - Reduction in # of road closures over 10 years 0

Impacts

Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$65,800,000 % Nature-Based - BCR 0.03

Recurring costs \$10,000 Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title City of Manvel City Ordinance

ID# 063000129 Sponsor Manvel (Municipality)

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

The city shall adopt a land use ordinance which requires any structure within the 100-year floodplain to be elevated 2 feet above base flood elevation.

Watershed HUC# (if known) 120402040200,120402040400,12040204010 Emergency Need? No
Drainage area (mi² est.) 27
Associated FME's 999999 County Brazoria
Associated FMS's 999999 Associated FMP's 999999

Existing 100-Year Flood Risk

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No
Population at risk 6,741 # of structures 1,250 Critical facilities 8
Farm/Ranch land impacted (acres) 179 Roadway(s) impacted (length) 43
Number of low water crossings 0 Historical road closures 0

100-Year Flood Risk Reduction

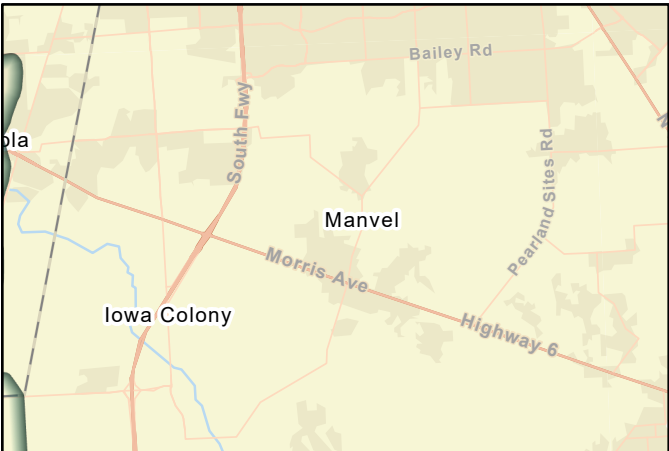
Population removed from 100-yr - # of structures removed from 100-yr -
Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -
Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -
Other benefits - Reduction in # of road closures over 10 years -

Impacts

Negative impacts? No Negative impacts description -
Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$103,000 % Nature-Based 0 BCR 5
Recurring costs \$5,211 Issues Permitting



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



TitleCity of Manvel GIS Database Improvements

ID#063000132SponsorManvel (Municipality)

RFPG recommend?YesReason for RecommendationAlignment with RFPG goals and TWDB guidance principles.

Project Description

Improve GIS database to include repetitive loss properties areas and flooded structure data. Data to be used for future drainage infrastructure planning and to provide outreach and emergency services to residents in substantial risk zones.

Watershed HUC# (if known)120402040200,120402040400,12040204010Emergency Need?No

Drainage area (mi² est.)27

Associated FME's999999CountyBrazoria

Associated FMS's999999Associated FMP's999999

Existing 100-Year Flood Risk

Flood risk type:Riverine?NoCoastal?NoLocal?YesPlaya?NoOther?No

Population at risk6,741# of structures1,250Critical facilitiesg

Farm/Ranch land impacted (acres)179Roadway(s) impacted (length)43

Number of low water crossings0Historical road closures0

100-Year Flood Risk Reduction

Population removed from 100-yr-# of structures removed from 100-yr-

Critical facilities removed from 100-yr-Farm/Ranch land removed from 100-yr (acres)-

Road removed from 100-yr (miles)-Low water crossings removed from 100-yr-

Other benefits-Reduction in # of road closures over 10 years-

Impacts

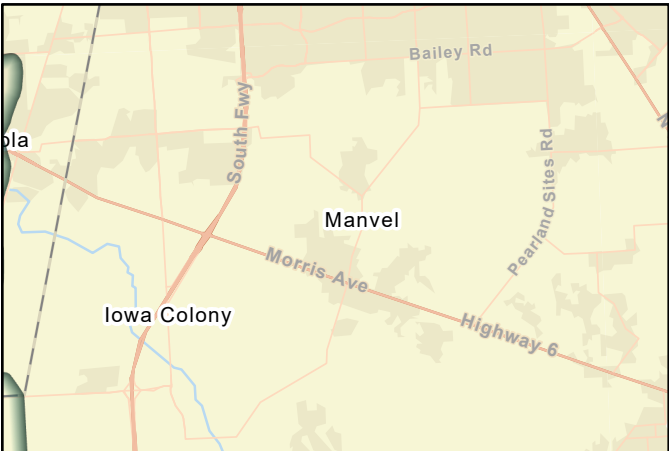
Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

Estimated Cost

Project Cost\$21,000% Nature-Based0BCR-

Recurring costs\$1,063Issues-



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



TitleCity of Manvel Land-Use Ordinance Adoption

ID#063000130SponsorManvel (Municipality)

RFPG recommend?YesReason for RecommendationAlignment with RFPG goals and TWDB guidance principles.

Project Description

The city shall adopt a land-use ordinance which prohibits building residential or commercial structures in the 100-year floodplain.

Watershed HUC# (if known)120402040200,120402040400,12040204010Emergency Need?No

Drainage area (mi² est.)27

Associated FME's999999CountyBrazoria

Associated FMS's999999Associated FMP's999999

Existing 100-Year Flood Risk

Flood risk type:Riverine?NoCoastal?NoLocal?YesPlaya?NoOther?No

Population at risk6,741# of structures1,250Critical facilitiesg

Farm/Ranch land impacted (acres)179Roadway(s) impacted (length)43

Number of low water crossings0Historical road closures0

100-Year Flood Risk Reduction

Population removed from 100-yr-# of structures removed from 100-yr-

Critical facilities removed from 100-yr-Farm/Ranch land removed from 100-yr (acres)-

Road removed from 100-yr (miles)-Low water crossings removed from 100-yr-

Other benefits-Reduction in # of road closures over 10 years-

Impacts

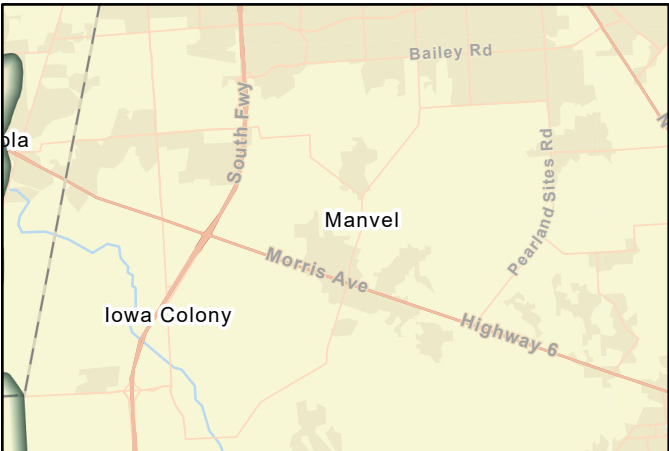
Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

Estimated Cost

Project Cost\$103,000% Nature-Based0BCR5

Recurring costs\$5,211IssuesPermitting, Relocations



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



TitleRivershire West - Grand Lake Creek Watershed

ID#063000453SponsorConroe (Municipality)

RFPG recommend?YesReason for RecommendationAlignment with RFPG goals and TWDB guidance principles.

Project Description

This project is located in a residential neighborhood and consists of benching, floodwalls, and upsizing culverts to route and contain flow. Additionally, there are proposed bridge modifications to reduce impediments to water flow

Watershed HUC# (if known)120401010207,120401010401Emergency Need?No

Drainage area (mi² est.)2

Associated FME's -CountyMontgomery

Associated FMS's -Associated FMP's -

Existing 100-Year Flood Risk

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

Population at risk1,890# of structures690Critical facilities10

Farm/Ranch land impacted (acres)2Roadway(s) impacted (length)11

Number of low water crossings0Historical road closures0

100-Year Flood Risk Reduction

Population removed from 100-yr566# of structures removed from 100-yr100

Critical facilities removed from 100-yr1Farm/Ranch land removed from 100-yr (acres)0

Road removed from 100-yr (miles)2Low water crossings removed from 100-yr0

Other benefits -Reduction in # of road closures over 10 years0

Impacts

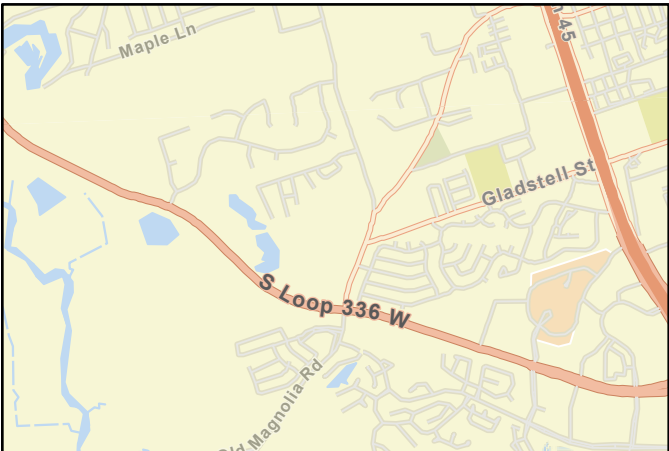
Negative impacts?NoNegative impacts description-

Water supply contributions?-Water supply contribution description-

Estimated Cost

Project Cost\$30,000,000% Nature-Based -BCR0.11

Recurring costs\$1,600,544Issues -



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Watershed HUC# (if known)	<input type="text" value="120402040300,120402040200"/>	Emergency Need?	<input type="text" value="No"/>
		Drainage area (mi² est.)	<input type="text" value="91"/>
Associated FME's	<input type="text" value="999999"/>	County	<input type="text" value="Brazoria,Galveston"/>
Associated FMS's	<input type="text" value="999999"/>	Associated FMP's	<input type="text" value="999999"/>

Existing 100-Year Flood Risk

Flood risk type:	Riverine?	<input type="text" value="No"/>	Coastal?	<input type="text" value="No"/>	Local?	<input type="text" value="Yes"/>	Playa?	<input type="text" value="No"/>	Other?	<input type="text" value="No"/>
Population at risk	<input type="text" value="5,294"/>	# of structures	<input type="text" value="2,655"/>	Critical facilities	<input type="text" value="12"/>					
Farm/Ranch land impacted (acres)	<input type="text" value="-"/>	Roadway(s) impacted (length)	<input type="text" value="73"/>							
Number of low water crossings	<input type="text" value="0"/>	Historical road closures	<input type="text" value="0"/>							

100-Year Flood Risk Reduction

Population removed from 100-yr	<input type="text" value="-"/>	# of structures removed from 100-yr	<input type="text" value="-"/>
Critical facilities removed from 100-yr	<input type="text" value="-"/>	Farm/Ranch land removed from 100-yr (acres)	<input type="text" value="-"/>
Road removed from 100-yr (miles)	<input type="text" value="-"/>	Low water crossings removed from 100-yr	<input type="text" value="-"/>
Other benefits	<input type="text" value="-"/>	Reduction in # of road closures over 10 years	<input type="text" value="-"/>

Impacts

Negative impacts?	<input type="text" value="No"/>	Negative impacts description	<input type="text" value="-"/>
Water supply contributions?	<input type="text" value="No"/>	Water supply contribution description	<input type="text" value="-"/>

Estimated Cost

Project Cost	<input type="text" value="\$109,000"/>	% Nature-Based	<input type="text" value="0"/>	BCR	<input type="text" value="5"/>
Recurring costs	<input type="text" value="\$5,514"/>	Issues	<input type="text" value="Permitting"/>		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Watershed HUC# (if known)	<input type="text" value="120402040200"/>	Emergency Need?	<input type="text" value="No"/>
		Drainage area (mi² est.)	<input type="text" value="14"/>
Associated FME's	<input type="text" value="999999"/>	County	<input type="text" value="Galveston"/>
Associated FMS's	<input type="text" value="999999"/>	Associated FMP's	<input type="text" value="999999"/>

Existing 100-Year Flood Risk

Flood risk type:	Riverine? <input type="text" value="No"/>	Coastal? <input type="text" value="No"/>	Local? <input type="text" value="Yes"/>	Playa? <input type="text" value="No"/>	Other? <input type="text" value="No"/>
Population at risk	<input type="text" value="1,455"/>	# of structures	<input type="text" value="829"/>	Critical facilities	<input type="text" value="8"/>
Farm/Ranch land impacted (acres)	<input type="text" value="-"/>	Roadway(s) impacted (length)	<input type="text" value="31"/>		
Number of low water crossings	<input type="text" value="1"/>	Historical road closures	<input type="text" value="1"/>		

100-Year Flood Risk Reduction

Population removed from 100-yr	<input type="text" value="-"/>	# of structures removed from 100-yr	<input type="text" value="-"/>
Critical facilities removed from 100-yr	<input type="text" value="-"/>	Farm/Ranch land removed from 100-yr (acres)	<input type="text" value="-"/>
Road removed from 100-yr (miles)	<input type="text" value="-"/>	Low water crossings removed from 100-yr	<input type="text" value="-"/>
Other benefits	<input type="text" value="-"/>	Reduction in # of road closures over 10 years	<input type="text" value="-"/>

Impacts

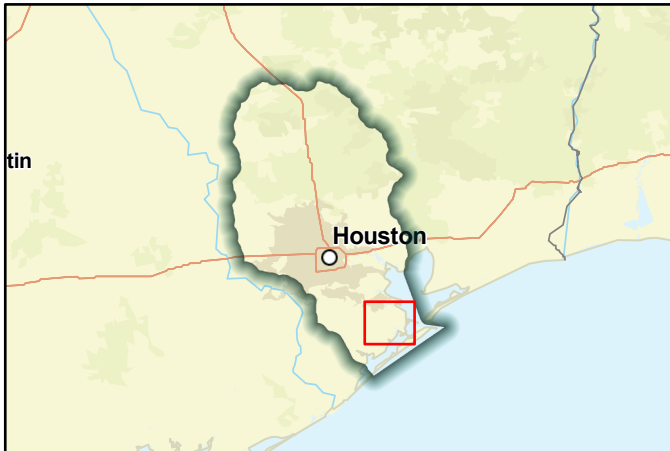
Negative impacts?	<input type="text" value="No"/>	Negative impacts description	<input type="text" value="-"/>
Water supply contributions?	<input type="text" value="No"/>	Water supply contribution description	<input type="text" value="-"/>

Estimated Cost

Project Cost	<input type="text" value="\$109,000"/>	% Nature-Based	<input type="text" value="0"/>	BCR	<input type="text" value="5"/>
Recurring costs	<input type="text" value="\$5,514"/>	Issues	<input type="text" value="Permitting"/>		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title City of League City Freeboard Ordinance

ID# 063000115 Sponsor League City (Municipality)

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

Update city ordinance to require 24" of freeboard in the floodplain.

Watershed HUC# (if known) 120402040200,120402040100

Emergency Need? No

Drainage area (mi² est.) 53

Associated FME's 999999

County Galveston,Harris

Associated FMS's 999999

Associated FMP's 999999

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

Population at risk 13,675 # of structures 5,251 Critical facilities 25

Farm/Ranch land impacted (acres) 1,308 Roadway(s) impacted (length) 105

Number of low water crossings 2 Historical road closures 2

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

Impacts

Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$109,000 % Nature-Based 0 BCR 5

Recurring costs \$5,514 Issues Permitting



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION 6

Title Lower Clear Creek & Dickinson Bayou Flood Mitigation Plan - Lower Clear Creek Alternative 3

ID# 063000026 Sponsor League City (Municipality)

RFPG recommend? Yes Reason for Recommendation Alignment with RFPG goals and TWDB guidance principles.

Project Description

The LCC Alt. Combination 3 as proposed as part of the LCCDBFMP (2021), including detention channel benching, a diversion tunnel, capacity improvements, and an auxiliary opening.

Watershed HUC# (if known) 120402040200,120402040100

Emergency Need? No

Drainage area (mi² est.) 110

Associated FME's 999999

County Brazoria,Galveston,Harris

Associated FMS's 999999

Associated FMP's 999999

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

Population at risk 10,260 # of structures 3,642 Critical facilities 18

Farm/Ranch land impacted (acres) 131 Roadway(s) impacted (length) 119

Number of low water crossings 9 Historical road closures 9

100-Year Flood Risk Reduction

Population removed from 100-yr 3653 # of structures removed from 100-yr 911

Critical facilities removed from 100-yr 8 Farm/Ranch land removed from 100-yr (acres) 16.10678864

Road removed from 100-yr (miles) 26 Low water crossings removed from 100-yr 1

Other benefits - Reduction in # of road closures over 10 years 1

Impacts

Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$1,150,000,000 % Nature-Based 0 BCR 0.06

Recurring costs \$69,672,864 Issues Right-of-Way, Permitting, Acquisitions, Relocations, Utility Conflicts



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Watershed HUC# (if known)	<input type="text" value="120402040300,120402040200"/>	Emergency Need?	<input type="text" value="No"/>
		Drainage area (mi² est.)	<input type="text" value="17"/>
Associated FME's	<input type="text" value="999999"/>	County	<input type="text" value="Galveston"/>
Associated FMS's	<input type="text" value="999999"/>	Associated FMP's	<input type="text" value="999999"/>

Existing 100-Year Flood Risk

Flood risk type:	Riverine?	<input type="text" value="Yes"/>	Coastal?	<input type="text" value="No"/>	Local?	<input type="text" value="Yes"/>	Playa?	<input type="text" value="No"/>	Other?	<input type="text" value="No"/>
Population at risk	<input type="text" value="748"/>	# of structures	<input type="text" value="400"/>	Critical facilities	<input type="text" value="1"/>					
Farm/Ranch land impacted (acres)	<input type="text" value="-"/>	Roadway(s) impacted (length)	<input type="text" value="4"/>							
Number of low water crossings	<input type="text" value="9"/>	Historical road closures	<input type="text" value="9"/>							

100-Year Flood Risk Reduction

Population removed from 100-yr	<input type="text" value="-"/>	# of structures removed from 100-yr	<input type="text" value="-"/>
Critical facilities removed from 100-yr	<input type="text" value="-"/>	Farm/Ranch land removed from 100-yr (acres)	<input type="text" value="-"/>
Road removed from 100-yr (miles)	<input type="text" value="-"/>	Low water crossings removed from 100-yr	<input type="text" value="-"/>
Other benefits	<input type="text" value="-"/>	Reduction in # of road closures over 10 years	<input type="text" value="-"/>

Impacts

Negative impacts?	<input type="text" value="No"/>	Negative impacts description	<input type="text" value="-"/>
Water supply contributions?	<input type="text" value="No"/>	Water supply contribution description	<input type="text" value="-"/>

Estimated Cost

Project Cost	<input type="text" value="\$109,000"/>	% Nature-Based	<input type="text" value="0"/>	BCR	<input type="text" value="5"/>
Recurring costs	<input type="text" value="\$5,514"/>	Issues	<input type="text" value="Permitting"/>		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Watershed HUC# (if known)	<input type="text" value="120402040200,120402040100"/>	Emergency Need?	<input type="text" value="No"/>
		Drainage area (mi² est.)	<input type="text" value="2"/>
Associated FME's	<input type="text" value="999999"/>	County	<input type="text" value="Galveston,Chambers"/>
Associated FMS's	<input type="text" value="999999"/>	Associated FMP's	<input type="text" value="999999"/>

Existing 100-Year Flood Risk

Flood risk type:	Riverine?	<input type="text" value="No"/>	Coastal?	<input type="text" value="No"/>	Local?	<input type="text" value="Yes"/>	Playa?	<input type="text" value="No"/>	Other?	<input type="text" value="No"/>
Population at risk	<input type="text" value="2,792"/>	# of structures	<input type="text" value="562"/>	Critical facilities	<input type="text" value="7"/>					
Farm/Ranch land impacted (acres)	<input type="text" value="-"/>	Roadway(s) impacted (length)	<input type="text" value="12"/>							
Number of low water crossings	<input type="text" value="-"/>	Historical road closures	<input type="text" value="-"/>							

100-Year Flood Risk Reduction

Population removed from 100-yr	<input type="text" value="-"/>	# of structures removed from 100-yr	<input type="text" value="-"/>
Critical facilities removed from 100-yr	<input type="text" value="-"/>	Farm/Ranch land removed from 100-yr (acres)	<input type="text" value="-"/>
Road removed from 100-yr (miles)	<input type="text" value="-"/>	Low water crossings removed from 100-yr	<input type="text" value="-"/>
Other benefits	<input type="text" value="-"/>	Reduction in # of road closures over 10 years	<input type="text" value="-"/>

Impacts

Negative impacts?	<input type="text" value="No"/>	Negative impacts description	<input type="text" value="-"/>
Water supply contributions?	<input type="text" value="No"/>	Water supply contribution description	<input type="text" value="-"/>

Estimated Cost

Project Cost	<input type="text" value="\$109,000"/>	% Nature-Based	<input type="text" value="0"/>	BCR	<input type="text" value="5"/>
Recurring costs	<input type="text" value="\$5,514"/>	Issues	<input type="text" value="Permitting"/>		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Update floodplain ordinance to ensure compliance with minimum standard of NFIP.

Watershed HUC# (if known)	<input type="text" value="120402040200,120402040100"/>	Emergency Need?	<input type="text" value="No"/>
		Drainage area (mi² est.)	<input type="text" value="2"/>
Associated FME's	<input type="text" value="999999"/>	County	<input type="text" value="Galveston,Chambers"/>
Associated FMS's	<input type="text" value="999999"/>	Associated FMP's	<input type="text" value="999999"/>

Existing 100-Year Flood Risk

Flood risk type:	Riverine?	<input type="text" value="No"/>	Coastal?	<input type="text" value="No"/>	Local?	<input type="text" value="Yes"/>	Playa?	<input type="text" value="No"/>	Other?	<input type="text" value="No"/>
Population at risk	<input type="text" value="2,792"/>	# of structures	<input type="text" value="562"/>	Critical facilities	<input type="text" value="7"/>					
Farm/Ranch land impacted (acres)	<input type="text" value="-"/>	Roadway(s) impacted (length)	<input type="text" value="12"/>							
Number of low water crossings	<input type="text" value="-"/>	Historical road closures	<input type="text" value="-"/>							

100-Year Flood Risk Reduction

Population removed from 100-yr	<input type="text" value="-"/>	# of structures removed from 100-yr	<input type="text" value="-"/>
Critical facilities removed from 100-yr	<input type="text" value="-"/>	Farm/Ranch land removed from 100-yr (acres)	<input type="text" value="-"/>
Road removed from 100-yr (miles)	<input type="text" value="-"/>	Low water crossings removed from 100-yr	<input type="text" value="-"/>
Other benefits	<input type="text" value="-"/>	Reduction in # of road closures over 10 years	<input type="text" value="-"/>

Impacts

Negative impacts?	<input type="text" value="No"/>	Negative impacts description	<input type="text" value="-"/>
Water supply contributions?	<input type="text" value="No"/>	Water supply contribution description	<input type="text" value="-"/>

Estimated Cost

Project Cost	<input type="text" value="\$109,000"/>	% Nature-Based	<input type="text" value="0"/>	BCR	<input type="text" value="5"/>
Recurring costs	<input type="text" value="\$5,514"/>	Issues	<input type="text" value="Permitting"/>		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Update and/or develop regulations and permits to address hazards prone to the area and include any changes in future development area.

Watershed HUC# (if known)	<input type="text" value="120402040200"/>	Emergency Need?	<input type="text" value="No"/>
		Drainage area (mi² est.)	<input type="text" value="2"/>
Associated FME's	<input type="text" value="999999"/>	County	<input type="text" value="Galveston"/>
Associated FMS's	<input type="text" value="999999"/>	Associated FMP's	<input type="text" value="999999"/>

Existing 100-Year Flood Risk

Flood risk type:	Riverine?	<input type="text" value="No"/>	Coastal?	<input type="text" value="No"/>	Local?	<input type="text" value="Yes"/>	Playa?	<input type="text" value="No"/>	Other?	<input type="text" value="No"/>
Population at risk	<input type="text" value="1,681"/>	# of structures	<input type="text" value="1,006"/>	Critical facilities	<input type="text" value="6"/>					
Farm/Ranch land impacted (acres)	<input type="text" value="-"/>	Roadway(s) impacted (length)	<input type="text" value="10"/>							
Number of low water crossings	<input type="text" value="0"/>	Historical road closures	<input type="text" value="0"/>							

100-Year Flood Risk Reduction

Population removed from 100-yr	<input type="text" value="-"/>	# of structures removed from 100-yr	<input type="text" value="-"/>
Critical facilities removed from 100-yr	<input type="text" value="-"/>	Farm/Ranch land removed from 100-yr (acres)	<input type="text" value="-"/>
Road removed from 100-yr (miles)	<input type="text" value="-"/>	Low water crossings removed from 100-yr	<input type="text" value="-"/>
Other benefits	<input type="text" value="-"/>	Reduction in # of road closures over 10 years	<input type="text" value="-"/>

Impacts

Negative impacts?	<input type="text" value="No"/>	Negative impacts description	<input type="text" value="-"/>
Water supply contributions?	<input type="text" value="No"/>	Water supply contribution description	<input type="text" value="-"/>

Estimated Cost

Project Cost	<input type="text" value="\$109,000"/>	% Nature-Based	<input type="text" value="0"/>	BCR	<input type="text" value="5"/>
Recurring costs	<input type="text" value="\$5,514"/>	Issues	<input type="text" value="Permitting"/>		



FMP area



Regional view of FMP area