







Flood Management Evaluations Fact Sheet

FME ID: **151000001**

Brooks County

FME Description				
Develop Flood risk maps for the	county o	f Brooks	and develop CIP	
Study Type				
✓ Flood risk modeling/mapping✓ Flood mitigation study			Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies
Study Area				
City/ Cities			Insert snip of Lo	ocation Map here
County/ Counties Brooks				
HUC 8				
HUC 12				
Study Area (sq. mi.) 685.70				
Emergency Need				
Yes ✓ No 🗆				
Known Flood Risk				
History of Flooding?	Yes ✓	No 🗆	Frequency:	
Population at Risk Roadways flooded	Yes □	No □	# of structures inundated Miles inundated?	
Critical Facilities Impacted	Yes 🗆	No □	Agricultural Land impacted	Yes □ No □
Notes:				
Study Costs				
Total Cost:	\$25	0,000	Study Sponsor:	
Estimated year to start: Time to complete?			Entity with Oversight Included in a CIP or other plan?	Yes □ No ✓
Funding Dedicated?	Yes 🗆	No √	(Potential) Source of Funding	100 E 110 F
Study identified as a g	gap by	/ Regi	on 15 Regional Flood Pla	anning Group (RFPG)



Flood Management Evaluations
Fact Sheet

	ovisions of Title 31 of TAQC Chapters 36	1 aı	nd 362.
Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs Increase the coverage of available flood hazard data by completing studies with identified construction projects to		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage CIP list Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC)
	address flooding hazards Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		flood warning system information into their local capabilities to disseminate warnings Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
٦F	PG Recommended		
Yes	□ No ✓		





FME ID: 151000002

Bayiew Action #6

Upgrade three roadw caused by flooding an	ay bridges and one	footbridge	including structural improvements	and stabilization to reduce damages
Study Type				
✓ Flood risk modeling✓ Flood mitigation st			lternative Analysis easibility Assessments	☐ Flood preparedness studies
Study Area				
City/ Cities	Bayview		Insert snip of Lo	ocation Map here
County/ Counties	Cameron			
HUC 8	12110208			
HUC 12	121102080800,			
	121102080900			
Study Area (sq. mi.)	N/A			
Emergency Ne	ed			
Yes ✓ No 🗆				
Known Flood R	Risk			
History of Flooding?	Yes ✓	No □	Frequency of flooding:	
Population at Risk Roadways flooded	Yes ✓	No □	# of structures inundated Miles inundated?	
Critical Facilities Impa Notes:			Agricultural Land impacted	Yes □ No □
Study Costs				
Total Cost:		369,600	Study Sponsor:	Bayview
Estimated year to star Time to complete?	rt:	2018 2020	Entity with Oversight Included in a Hazard Mitigation	Bayview Yes ✓ No □
			Action Plan or other plan?	
Funding Dedicated?		No ✓	(Potential) Source of Funding	HMGP; USDA; Other Grants
Yes □ No ✓	u as a gap by	negio	n 15 Regional Flood Pla	anning Group (KFPG)
ICS - INU F				



Flood Mitigation Evaluations
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prc	visions of Title 31 of TAQC Chapters 36	1 aı	nd 362.
Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs
	routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





Flood Mitigation Evaluations

FME ID: 151000003

Fact Sheet

City of Brownsville Action #1

FME Description	on			
• -			City in order to adequately conve orth Main drainage ditch	y storm water. Selected locations
Study Type				
✓ Flood risk modeling✓ Flood mitigation st			ernative Analysis sibility Assessments	☐ Flood preparedness studies
Study Area				
City/ Cities	Brownsville		Insert snip of Lo	cation Map here
County/ Counties	Cameron			
HUC 8	12110208			
HUC 12	121102080800,			
	121102080900			
Study Area (sq. mi.)	N/A			
Emergency Ne Yes ✓ No □	ed			
Known Flood R	isk			
History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:	Yes ✓ Yes ✓	No □ No □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs				
Total Cost: Estimated year to star Time to complete? Funding Dedicated?		369,000 2018 2020 No ✓	Study Sponsor: Entity with Oversight Included in a Hazard Mitigation Action Plan or other plan? (Potential) Source of Funding	City of Brownsville City of Brownsville Yes ✓ No □ HMGP; USDA; Other Grants
			15 Regional Flood Pla	
Yes □ No ✓				



Flood Mitigation Evaluations
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prc	visions of Title 31 of TAQC Chapters 36	1 aı	nd 362.
Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs
	routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000004

City of Brownsville Action #16

FME Description		m the overflo	ow of canals located on the North	side of Brownsville
Study Type ✓ Flood risk modeling ✓ Flood mitigation st			ernative Analysis sibility Assessments	☐ Flood preparedness studies
Study Area City/ Cities	Brownsville		Insert snip of Lo	ocation Map here
County/ Counties	Cameron			
HUC 8	12110208			
HUC 12	121102080800,			
	121102080900			
Study Area (sq. mi.)	N/A			
Emergency Ne Yes ✓ No □	ed			
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:	Yes ✓ Yes ✓	No 🗆	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?		\$39,000 2018 2020 No ✓	Study Sponsor: Entity with Oversight Included in a Hazard Mitigation Action Plan or other plan? (Potential) Source of Funding	City of Brownsville City of Brownsville Yes ✓ No □ HMGP; USDA; Other Grants
=			15 Regional Flood Pla	



Flood Mitigation Evaluations
Fact Sheet

prc	visions of Title 31 of TAQC Chapters 36	1 aı	nd 362.
Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
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	routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





Flood Mitigation Evaluations

FME ID: 151000005

Fact Sheet

City of Brownsville Action #17

FME Description

-			d main stream outfalls. Locations in on ; 4) Pablo Kisel from Morrison to	-
Study Type				
✓ Flood risk modeling✓ Flood mitigation st			lternative Analysis easibility Assessments	☐ Flood preparedness studies
Study Area				
City/ Cities	Brownsville		Insert snip of Lo	ocation Map here
County/ Counties	Cameron			
HUC 8	12110208			
HUC 12	121102080800,			
	121102080900			
Study Area (sq. mi.)	N/A			
Emergency New Yes ✓ No □	ed			
	tal.			
Known Flood R History of Flooding?	AISK Yes ✓	No 🗆	Frequency of flooding:	
Population at Risk	res •	INO 🗆	# of structures inundated	
Roadways flooded Critical Facilities Impa Notes:	Yes ✓ cted Yes □	_	Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs				
Total Cost:		\$99,000	Study Sponsor:	City of Brownsville
Estimated year to star Time to complete?	t:	2018 2020	Entity with Oversight Included in a Hazard Mitigation Action Plan or other plan?	City of Brownsville Yes ✓ No 🗆
Funding Dedicated?	Yes		(Potential) Source of Funding	HMGP; USDA; Other Grants
Study identifie	d as a gap b	y Regio	n 15 Regional Flood Pla	anning Group (RFPG)
Yes □ No 🗸				



Flood Mitigation Evaluations
Fact Sheet

prc	visions of Title 31 of TAQC Chapters 36	1 aı	nd 362.
Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs
	routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





Flood Mitigation Project
Fact Sheet

City of Brownsville Action #24

FME ID: 151000006

☐ Flood preparedness studies

FME Description

Improve drainage and replace or upgrade gutters at City Plaza buildings.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

Study Area

City/ Cities Brownsville

County/ Counties Cameron

HUC 8 12110208

HUC 12 121102080800,

121102080900

Study Area (sq. mi.) 0.1

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Study Costs

Notes:

Total Cost: \$19,800 Study Sponsor: Brownsville
Estimated year to start: Upon Funding Entity with Oversight
Time to complete? Included in a Hazard Mitigation
Action Plan or other plan?

Brownsville
Yes ✓ No □
Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding Capital Improvement Funds

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

✓ Alternative Analysis

☐ Feasibility Assessments

General Street S	
	Sold III
Secretary Ductor Secretary Du	
JE Nicotacyce Beauty 55000 El Romatin-Outros	em red sivo
To copy 60 foot a Regy Construction of Constru	



Flood Mitigation Project Fact Sheet

	ovisions of Title 31 of TAQC Chapters 363	1 a	nd 362.
Yes	s ✓ No □		
	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes \checkmark No \Box
	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that have multi-year drainage CIP list Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local
□ ✓	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		capabilities to disseminate warnings Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
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☐ Flood preparedness studies

FME ID: 151000007

Indian Lake Action #1

FME Description

Elevate and harden S Resaca Shore Drive bridge to reduce risk of damages and maintaining critical access route.

✓ Alternative Analysis

☐ Feasibility Assessments

Study Type

- ☐ Flood risk modeling/mapping✓ Flood mitigation study
- Study Area

City/ Cities Indian Lake

County/ Counties Cameron

HUC 8 12110208

HUC 12 121102080900

Study Area (sq. mi.) 0.21

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?

Population at Risk

Roadways flooded

Yes ✓ No □

Wiles inundated?

Yes □ No □

Agricultural Land impacted

Yes □ No □

Notes:

Study Costs

Total Cost: \$92,400 Study Sponsor: Indian Lakes Estimated year to start: 2018 Entity with Oversight Time to complete? 2020 Included in a Hazard Mitigation Yes \checkmark No \Box

Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding General Fund; HMGP

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)





Flood Mitigation Evaluations
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Yes	✓ No □		
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Rel	ated Goals		
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	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
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	routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





Indian Lake Action #12

FME ID: 151000008

FME Description

Upgrade/Elevate Henderson Road bridge over Resaca to remove from potential floodway, reduce the risk of damages, and maintain critical access route.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis□ Feasibility Assessments
- $\hfill \square$ Flood preparedness studies

Study Area

City/ Cities Indian Lake

County/ Counties Cameron

HUC 8 12110208

HUC 12 121102080900

Study Area (sq. mi.) 0.16

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes \checkmark No \square Population at Risk

Roadways flooded Yes ✓ No □ Critical Facilities Impacted Yes □ No □

Notes:



Frequency of flooding: # of structures inundated Miles inundated?

Agricultural Land impacted Yes □ No □

Study Costs

Total Cost:\$184,800Study Sponsor:Indian LakesEstimated year to start:2019Entity with OversightIndian LakesTime to complete?2021Included in a Hazard MitigationYes ✓ No □

Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding General Fund; HMGP

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
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Yes	✓ No □		
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RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000009

Indian Lake Action #17

FME Description

Upgrade shoulders and provide turnouts along Henderson Road to support evacuation route.

Study Type

- ☐ Flood risk modeling/mapping✓ Flood mitigation study
- ✓ Alternative Analysis

 ☐ Feasibility Assessments
- $\hfill \square$ Flood preparedness studies

Study Area

City/ Cities Indian Lake

County/ Counties Cameron

HUC 8 12110208

HUC 12 121102080900

Study Area (sq. mi.) 0.78



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No 🗆	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆	No 🗆

Notes:

Study Costs

Total Cost:	\$9,240	Study Sponsor:	Indian Lakes
Estimated year to start:	2019	Entity with Oversight	Indian Lakes
Time to complete?	2021	Included in a Hazard Mitigation	Yes ✓ No 🗆
		Action Plan or other plan?	

Action Plan or other plan

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding General Fund; HMGP

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osec	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs
	routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





☐ Flood preparedness studies

FME ID: 151000010

Indian Lake Action #18

FME Description

Harden critical facilities, to include the Town Hall/Police Station, to reduce or eliminate wind, hail, and flood damage and ensure continuity of emergency services.

✓ Alternative Analysis

Study Type

- ☐ Flood risk modeling/mapping ✓ Flood mitigation study
- Study Area

City/ Cities Indian Lake

County/ Counties Cameron

> HUC 8 12110208

HUC 12 121102080900

Study Area (sq. mi.) 0.50

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? No 🗆 Frequency of flooding: Yes ✓ Population at Risk # of structures inundated Roadways flooded Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Study Costs

Total Cost: Indian Lakes \$27,720 Study Sponsor: Estimated year to start: 2018 **Entity with Oversight Indian Lakes** Time to complete? 2020 Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding General Fund; HMGP

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



Yes □ No □



Flood Mitigation Evaluations
Fact Sheet

	✓ No□	1 a	nu 362.
gui	s the project missing sufficient data to assess whether the prodelines?		
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	☐ ✓	Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		
Yes	□ No ✓		





FME ID: 151000011

Laguna Vista Action #1

FME Description

Drainage improvements Basin "B": Install upgraded drainage system for 80 acre residential area. Current system is inadequate to carry storm water runoff

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis

 ☐ Feasibility Assessments
- ☐ Flood preparedness studies

Study Area

City/ Cities Laguna Vista

County/ Counties Cameron

HUC 8 12110208

HUC 12 121102080800,

121102080900

Study Area (sq. mi.) 0.41

Laguna Vista

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □

Population at Risk

Roadways flooded Yes ✓ No □

Critical Facilities Impacted Yes \square No \square Notes:

Frequency of flooding: # of structures inundated Miles inundated?

Agricultural Land impacted Yes

No

Study Costs

Total Cost: \$924,000 Study Sponsor: Laguna Vista Estimated year to start: 2018 Entity with Oversight Time to complete? 2020 Included in a Hazard Mitigation Yes \checkmark No \square

Funding Dedicated? Yes □ No ✓ Action Plan or other plan? (Potential) Source of Funding

(Potential) Source of Funding HMGP; Local Funds; Other Grants;

Drainage Fee

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

	✓ No □		l i i l i i i i i i i i i i i i i i i i
	s the project missing sufficient data to assess whether the prop delines?	osec	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000012

Laguna Vista Action #10

FME Description

Drainage Improvements: Harden and reinforce head wall along the Laguna Madre bay off Beach Boulevard.

Study Type

- ☐ Flood risk modeling/mapping
- $\checkmark \ \ \textbf{Flood mitigation study}$

- ✓ Alternative Analysis

 ☐ Feasibility Assessments
- $\hfill\Box$ Flood preparedness studies

Study Area

City/ Cities Laguna Vista

County/ Counties Cameron

HUC 8 12110208

HUC 12 **121102080800**,

121102080900

Study Area (sq. mi.) 0.41

Laguna Vista

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No 🗆	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No □	Agricultural Land impacted	Yes □	No □
Notes:					

Study Costs

Total Cost:	\$924,000	Study Sponsor:	Laguna vista
Estimated year to start:	2018	Entity with Oversight	Laguna Vista
Time to complete?	2020	Included in a Hazard Mitigation	Yes ✓ No 🗆
		Action Plan or other plan?	
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	HMGP; Local Funds; Other Grants;

Drainage Fee

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

	✓ No □		l i i l i i i i i i i i i i i i i i i i
	s the project missing sufficient data to assess whether the prop delines?	osec	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000013

Laguna Vista Action #11

FME Description

Drainage Improvements: Upgrade 48" drainage pipe located at 1004 Beach Blvd to increase capacity and reduce risk of flood damages.

Study Type

- $\ \square$ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis
- ☐ Feasibility Assessments
- $\ \square$ Flood preparedness studies

Study Area

City/ Cities Laguna Vista

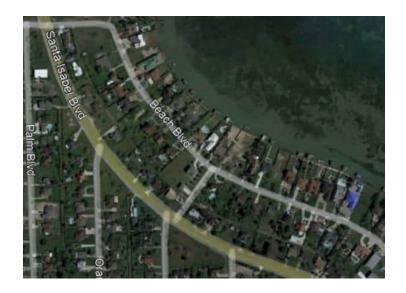
County/ Counties Cameron

HUC 8 12110208

HUC 12 121102080800,

121102080900

Study Area (sq. mi.) 0.01



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$92,400 Study Sponsor: Laguna Vista Estimated year to start: 2018 Entity with Oversight Laguna Vista Time to complete? 2020 Included in a Hazard Mitigation Yes ✓ No □ Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding HMGP; Local Funds; Other Grants;

Drainage Fee

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

•	ovisions of Title 31 of TAQC Chapters 36: ✓ No□	ı aı	na 362.
163	, MO		
	s the project missing sufficient data to assess whether the prop delines?	osec	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		
Yes	□ No ✓		





FME ID: 151000014

Laguna Vista Action #12

FME Description

Drainage Improvements: Relocate and upgrade existing 36" drainage pipe located at 1026 Beach Blvd to increase capacity and reduce risk of flood damages.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis
- ☐ Feasibility Assessments
- $\ \square$ Flood preparedness studies

Study Area

City/ Cities Laguna Vista

County/ Counties Cameron

HUC 8 12110208

HUC 12 121102080800,

121102080900

Study Area (sq. mi.) 0.01

Beach Blud

Drainage Fee

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆 No 🗆	Agricultural Land impacted	Yes 🗆 No 🗈
Notes:			

Study Costs

Total Cost:	\$92,400	Study Sponsor:	Laguna Vista
Estimated year to start:	2018	Entity with Oversight	Laguna Vista
Time to complete?	2020	Included in a Hazard Mitigation	Yes ✓ No 🗆
		Action Plan or other plan?	
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	HMGP: Local Funds: Other Gra

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes	Nο	√
162	1110	•



Flood Mitigation Evaluations
Fact Sheet

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remove		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: 151000015

Laguna Vista Action #19

FME Description

Harden Town Hall with wind, hail, and flood mitigation measures to reduce damages and ensure continuity of services

Study Type

- $\ \square$ Flood risk modeling/mapping
- \checkmark Flood mitigation study

- ✓ Alternative Analysis

 ☐ Feasibility Assessments
- $\hfill\Box$ Flood preparedness studies

Study Area

City/ Cities Laguna Vista

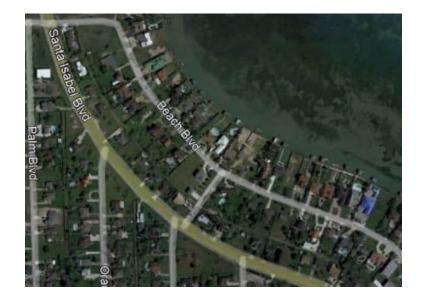
County/ Counties Cameron

HUC 8 12110208

HUC 12 121102080800,

121102080900

Study Area (sq. mi.) 0.01



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No 🗆	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆	No 🗆
Notes:					

Study Costs

Total Cost:	\$18,480	Study Sponsor:	Laguna Vista
Estimated year to start:	2018	Entity with Oversight	Laguna Vista
Time to complete?	2020	Included in a Hazard Mitigation	Yes ✓ No 🗆
		Action Plan or other plan?	
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	HMGP; Local Funds; Other Grants;
			D!

Drainage Fee

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remove		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: 151000016

Laguna Vista Action #2

Yes □ No ✓

FME Description Drainage improvement carry storm water runo	s Basin "C": Install u	pgraded drainage	e system for 60 acre resider	itial area. Current system is inadequate to
Study Type				
☐ Flood risk modeling/mapping☐ Flood mitigation study		☐ Alternativ☐ Feasibility	ve Analysis Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area				
City/ Cities	City of Laguna Vista			
County/ Counties	Cameron			
HUC 8				
HUC 12				
Study Area (sq. mi.)	0.086202696			
Emergency Nee Yes ✓ No□	ed			
Known Flood Ri	sk			
History of Flooding? Population at Risk		lo 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impact Notes:		lo □ lo □	Miles inundated? gricultural Land impacted	Yes □ No □
Study Costs				
Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$924,0 : Yes 🗆	2023 2025 Includ	Study Sponsor: Entity with Oversight led in a CIP or other plan? tential) Source of Funding	City of Laguna Vista City of Laguna Vista Yes ✓ No □

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

RFPG Recommended

Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

	s the project missing sufficient data to assess whether the prop delines?	osed	I project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage
	Maps used to define SFHAs		CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance
	repeated flooding events through property buyouts		penalties; and who regulate development in the future conditions floodplain



Flood Mitigation Evaluations Fact Sheet

FME ID: 151000017

Laguna Vista Action #3

FME Description

Drainage improvements Basin "D": Install upgraded drainage system west side of State Highway 510 for 80 acre residential area. Current system is inadequate to carry storm water runoff.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies

Study Area

City/ Cities Laguna Vista

County/ Counties Cameron

> HUC 8 12110208

HUC 12 121102080800,

121102080900

Study Area (sq. mi.) 1.87

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? No 🗆 Yes ✓ Population at Risk Roadways flooded Yes ✓ No 🗆

Yes □ No □ **Critical Facilities Impacted** Notes:

Frequency of flooding: # of structures inundated Miles inundated?

Agricultural Land impacted Yes 🗆 No 🗆

Study Costs

Total Cost: \$924,000 Study Sponsor: Laguna Vista Estimated year to start: 2018 **Entity with Oversight** Laguna Vista Time to complete? 2020 Included in a Hazard Mitigation Yes ✓ No 🗆

Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding HMGP; Local Funds; Other Grants; Drainage Fee

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

	s the project missing sufficient data to assess whether the prop delines?	osed	I project has a negative effect, per TWDB	Yes ✓	No 🗆
Wa	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remove			Yes ✓	No 🗆
Rel	ated Goals				
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation		Increase the # of entities that adopt higher minimum standards Develop and maintain an operational storm management plan Increase the # of flood gauges (rainfall/streegion Increase the # of entities that have multi-y CIP list Increase the # of entities that integrate Nat Service and USGS Texas Water Science Cent flood warning system information into the capabilities to disseminate warnings Increase use of nature-based flood risk red Develop a regionally coordinated warning a response program that can detect the flood provide timely warning of impending flood Increase the amount of publicly owned land that can be utilized for future regional store infrastructure Increase the proficiency of floodplain management Association Increase participation in the Community Regencouraging Region 15 floodplain management and increase participation in the Community Regencouraging Region 15 floodplain management and increase participation in the Community Regencouraging Region 15 floodplain management and increase participation in the Community Regencouraging Region 15 floodplain management and increase participation in the Community Regencouraging Region 15 floodplain management and increase participation in the Community Regencouraging Region 15 floodplain management and increase participation in the Community Regencouraging Region 15 floodplain management and increase participation in the Community Regencouraging Region 15 floodplain management and increase participation in the Community Regencouraging Region 15 floodplain management and increase participation in the Community Regencouraging Region 15 floodplain management and increase participation in the Community Regencouraging Region 15 floodplain management and increase participation in the Community Regencouraging Region 15 floodplain management and increase participation in the Community Regencouraging Region 15 floodplain management and increase participation in the Community Regencouraging Region 15 floodplain management and increase participation in the Community	mwater a eam) in t rear drain tional W iter (TXV ir local duction p and eme d threat d danger id in the rmwater agers by as Certifi is Floodpl ating Sys ment pro	he hage region region tem by ograms
	routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		to incorporate dedicated drainage fees to infuture FMEs and FMPs; incorporate noncompenalties; and who regulate development conditions floodplain	mpliance	9
RFF	PG Recommended				
Yes	□ No ✓				





FME ID: 151000018

Laguna Vista Action #4

FME Description

Drainage improvements Basin "E": Install upgraded drainage system off Saunders Street and State Highway 510 that drains acreage south of Fernandez Street and north of Morris Street.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis□ Feasibility Assessments
- $\hfill\Box$ Flood preparedness studies

Study Area

City/ Cities Laguna Vista

County/ Counties Cameron

HUC 8 12110208

HUC 12 121102080800,

121102080900

Study Area (sq. mi.) N/A

It alians sy

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □
Population at Risk
Roadways flooded Yes ✓ No □

Critical Facilities Impacted Yes ∨ No □

Notes:

Frequency of flooding: # of structures inundated Miles inundated?

Agricultural Land impacted Yes \Box No \Box

Study Costs

Total Cost: \$924,000 Study Sponsor: Laguna Vista Estimated year to start: 2018 Entity with Oversight Laguna Vista Time to complete? 2020 Included in a Hazard Mitigation Yes ✓ No □

Funding Dedicated? Yes □ No ✓ Action Plan or other plan? (Potential) Source of Funding

(Potential) Source of Funding HMGP; Local Funds; Other Grants;

Drainage Fee

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes	No	✓



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osec	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs
	routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000019

Laguna Vista Action #5

FME Description

Drainage improvements Basin "F": Install drainage system at the most southwestern part of the Town limits, bounded by State Highway 100 and State Highway 510.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis
- ☐ Feasibility Assessments
- $\ \square$ Flood preparedness studies

Study Area

City/ Cities Laguna Vista

County/ Counties Cameron

HUC 8 12110208

HUC 12 121102080800,

121102080900

Study Area (sq. mi.) 0.18

Hibiscus Dr.

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Population at Risk

Roadways flooded Yes ✓ No □ Critical Facilities Impacted Yes □ No □

Notes:

Frequency of flooding: # of structures inundated Miles inundated?

Agricultural Land impacted Yes \square No \square

Study Costs

Total Cost: \$924,000 Study Sponsor: Laguna Vista Estimated year to start: 2018 Entity with Oversight Laguna Vista Time to complete? 2020 Included in a Hazard Mitigation Yes ✓ No □

Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding HMGP; Local Funds; Other Grants; Drainage Fee

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations Fact Sheet

Yes	ovisions of Title 31 of TAQC Chapters 363 ✓ No□	Lai	TIG 302.
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction project: Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: 151000020

Laguna Vista Action #6

FME Description

Drainage improvements SH 100: Regrade the existing drainage ditch that parallels State Highway 100 to increase capacity and reduce risk of flooding.

Study Type

- ☐ Flood risk modeling/mapping✓ Flood mitigation study
- ✓ Alternative Analysis□ Feasibility Assessments
- $\ \square$ Flood preparedness studies

Study Area

City/ Cities Laguna Vista

County/ Counties Cameron

HUC 8 12110208

HUC 12 121102080800,

121102080900

Study Area (sq. mi.) 13.5

Eliocean-Bive 523

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$369,600 Study Sponsor: Laguna Vista Estimated year to start: 2018 Entity with Oversight Laguna Vista Time to complete? 2020 Included in a Hazard Mitigation Yes ✓ No □ Action Plan or other plan?

Funding Dedicated? Yes $\ \square$ No $\ \checkmark$ (Potential) Source of Funding HMGP; Local Funds; Other Grants;

Drainage Fee

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

	s the project missing sufficient data to assess whether the prop delines?	osec	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remove		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





☐ Flood preparedness studies

FME ID: 151000021

Laguna Vista Action #7

FME Description

Drainage improvements SH 100: Regrade the existing drainage ditch that parallels State Highway 100 to increase capacity and reduce risk of flooding.

✓ Alternative Analysis

☐ Feasibility Assessments

Study Type

- ☐ Flood risk modeling/mapping ✓ Flood mitigation study
- Study Area

City/ Cities Laguna Vista

County/ Counties Cameron

> HUC 8 12110208

HUC 12 121102080800,

121102080900

Study Area (sq. mi.) 0.01

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency of flooding: Yes ✓ No 🗆 Population at Risk # of structures inundated Roadways flooded Yes ✓ No 🗆 Miles inundated? Agricultural Land impacted Yes

No Yes □ No □ Critical Facilities Impacted

Notes:

Study Costs

Total Cost: \$369,600 Study Sponsor: Laguna Vista Estimated year to start: 2018 **Entity with Oversight** Laguna Vista Time to complete? 2020 Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding HMGP; Local Funds; Other Grants; Drainage Fee

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

	1		
7		Santa Isabel Blud	
Lakewood Do	Palo Bianco Dr		Read A



Flood Mitigation Evaluations
Fact Sheet

	s the project missing sufficient data to assess whether the prop delines?	osec	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remove		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage foos to implement
	routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: 151000022

Laguna Vista Action #8

FME Description

Drainage Improvements: Upgrade the drainage system on Holley Beach to increase capacity and reduce risk of flooding.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis
- $\ \square$ Flood preparedness studies

Study Area

City/ Cities Laguna Vista

County/ Counties Cameron

HUC 8 12110208

HUC 12 121102080800,

121102080900

Study Area (sq. mi.) 3.99



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes \checkmark No \square Population at Risk

Roadways flooded Yes ✓ No □ Critical Facilities Impacted Yes □ No □

Notes:

of structures inundated
Miles inundated?

Agricultural Land impacted Yes
No

Study Costs

Total Cost:\$369,600Study Sponsor:Laguna VistaEstimated year to start:2018Entity with OversightLaguna VistaTime to complete?2020Included in a Hazard MitigationYes ✓ No □

Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding HMGP; Local Funds; Other Grants;

Drainage Fee

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

•	ovisions of Title 31 of TAQC Chapters 36	1 aı	nd 362.
Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain		management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000023

Laguna Vista Action #9

FME Description

Drainage Improvements: Upgrade and harden drainage structure on Town-owed marina to increase capacity and reduce risk of damages.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis
- ☐ Feasibility Assessments
- $\ \square$ Flood preparedness studies

Study Area

City/ Cities Laguna Vista

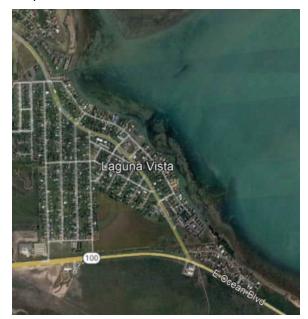
County/ Counties Cameron

HUC 8 12110208

HUC 12 121102080800,

121102080900

Study Area (sq. mi.) 0.51



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □
Population at Risk
Roadways flooded Yes ✓ No □

Roadways flooded Yes ✓ No □ Critical Facilities Impacted Yes □ No □

Notes:

Frequency of flooding: # of structures inundated Miles inundated?

Agricultural Land impacted Yes □ No □

Study Costs

Total Cost: \$554,400 Study Sponsor: Laguna Vista Estimated year to start: 2018 Entity with Oversight Laguna Vista Time to complete? 2020 Included in a Hazard Mitigation Yes ✓ No □

Funding Dedicated? Yes □ No ✓ Action Plan or other plan? (Potential) Source of Funding

(Potential) Source of Funding HMGP; Local Funds; Other Grants; Drainage Fee

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

	s the project missing sufficient data to assess whether the prop delines?	osec	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remove		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage foos to implement
	routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: 151000024

Los Fresnos Action #13

FME Description

Upgrade culverts and install drainage improvements at various locations to increase capacity and reduce risk of flood damages. Purchase trailer mounted water trash pump to reduce or eliminate flooding. Drainage Improvement locations: Drainage Ditch South of Highway 100 causes flooding on East Fifth Street, East Sixth Street, East Seventh Street, East Eighth Street, East Ninth Street and East Tenth Street. South Nogal Street Causes Flooding on West First Street, West Second Street, West Third Street, Valle Alto Street & Bougainvillea Street, Jacqueline Street & North Canal Street Drain Pipe Collapse, Olmo Street from West Eighth Street to West Tenth Street, Holly Lane Drain Under Canal, Pasto Drive at California Road Drain Under Canal, and Resaca Escondido Drain Pipe Collapse. The following Resaca Crossings are Too Low: Henderson Road East Side, Henderson Road West Side, and Whipple Road West Side.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study
- Study Area

City/ Cities Los Fresnos

County/ Counties Cameron

HUC 8 **12110208**

HUC 12 121102080800,

121102080900

Study Area (sq. mi.) 1.40

Emergency Need

Yes ✓ No 🗆

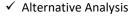
Known Flood Risk

History of Flooding? Yes ✓ No □ Population at Risk

Roadways flooded Yes ✓ No □

Critical Facilities Impacted

Notes:



☐ Feasibility Assessments

☐ Flood preparedness studies



of structures inundated
Miles inundated?

Agricultural Land impacted Yes
No

Study Costs

Total Cost: \$1,848,000 Study Sponsor: Los Fresnos Estimated year to start: 2018 Entity with Oversight Los Fresnos
Time to complete? 2020 Included in a Hazard Mitigation Yes ✓ No □
Action Plan or other plan?

Yes 🗆 No 🗆

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding HMGP; General Funds, Drainage Fee



Flood Mitigation Evaluations Fact Sheet

	dy identified as a gap by Region 15 Regional F □ No ✓	loo	d Planning Group (RFPG)
the guid 362	dy identified because project could not be inc Region 15 Regional Flood Plan because it did dance for Regional Flood Planning or the prov ∴ ✓ No□	me	et the minimum requirements, per TWDB
	s the project missing sufficient data to assess whether the prop delines?	osec	I project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rela	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical		Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		management plan Increase the # of flood gauges (rainfall/stream) in the
	Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate		region Increase the # of entities that have multi-year drainage
	Maps used to define SFHAs Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		CIP list Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and
	program Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		provide timely warning of impending flood danger Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





FME ID: 151000025

Los Fresnos Action #14

FME Description		one struc	tures	
Study Type	·/manning		Alternative Analysis	□ Flood propagations
☐ Flood risk modeling☐ Flood mitigation stu			Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area				
City/ Cities	City of Los Fresno	os		
County/ Counties	Cameron			
HUC 8				
HUC 12				
Study Area (sq. mi.)	0.866604745			
Emergency Ne Yes ✓ No □	ed			
Known Flood R	isk			
History of Flooding? Population at Risk	Yes ✓		Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impa Notes:	Yes ✓ cted Yes □		Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs				
Total Cost: Estimated year to star Time to complete? Funding Dedicated?		5,000.00 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	
Studv identifie	d as a gap b	v Regio	on 15 Regional Flood Pla	anning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

•	ovisions of Title 31 of TAQC Chapters 369 ✓ No□	1 aı	nd 362.
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000026

Los Fresnos Action #31

FME Description		Falcon Lake to increase storm water ret	ention capacity
Study Type ☐ Flood risk modeling ☐ Flood mitigation sto		□ Alternative Analysis□ Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area City/ Cities County/ Counties HUC 8	City of Los Fresnos Cameron		
HUC 12			
Study Area (sq. mi.)	0.02274045		
Emergency Ne Yes ✓ No □	ed		
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:	Yes ✓ No 🗆	# of structures inundated Miles inundated?	Yes □ No □
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?		23 Entity with Oversight 25 Included in a CIP or other plan?	City of Los Fresnos City of Los Fresnos Yes ✓ No □
Study identifie	d as a gap by Re	gion 15 Regional Flood Pla	anning Group (RFPG)



Yes ✓ No 🗆

Yes ✓ No 🗆

FME

Flood Mitigation Evaluations
Fact Sheet

Wa	delines? is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	lated Goals	
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical	Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program	management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





☐ Flood preparedness studies

Port Isabel Action #19 FME ID: 151000027

FME Description

Elevate and widen coastal roads as well as evacuation routes to reduce risk of flood damages and maintain emergency access.

✓ Alternative Analysis

Study Type

- ☐ Flood risk modeling/mapping✓ Flood mitigation study
- Study Area

City/ Cities Port Isabel

County/ Counties Cameron

HUC 8 12110208

HUC 12 121102081000,

121102081000

Study Area (sq. mi.) 2.72

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$554,400 Study Sponsor: Los Fresnos Estimated year to start: 2018 Entity with Oversight Los Fresnos Time to complete? 2020 Included in a Hazard Mitigation Yes ✓ No □

Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding HMGP; General Funds

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)





Flood Mitigation Evaluations
Fact Sheet

•	visions of Title 31 of TAQC Chapters 36: ✓ No□	ı aı	10 362.
Wa	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





☐ Flood preparedness studies

FME ID: 151000028

Port Isabel Action #22

FME Description

Build breakwater or similar shoreline protection for harbor.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

Study Area

City/ Cities Port Isabel

County/ Counties Cameron

HUC 8 12110208

HUC 12 121102081000,

121102081000

Study Area (sq. mi.) 0.47

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Study Costs

Notes:

Total Cost: \$1,108,800 Study Sponsor: Los Fresnos Estimated year to start: 2018 Entity with Oversight Los Fresnos Time to complete? 2020 Included in a Hazard Mitigation Yes ✓ No □

Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding HMGP; General Funds

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

✓ Alternative Analysis

Yes □ No ✓



Yes 🗆 No 🗆



Flood Mitigation Evaluations
Fact Sheet

•	ovisions of Title 31 of TAQC Chapters 36 ✓ No□	1 a	nd 362.
	is the project missing sufficient data to assess whether the properties?	pose	d project has a negative effect, per TWDB Yes ✓ No □
	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that have multi-year drainage CIP list Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management	√	capabilities to disseminate warnings Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and
	program Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		provide timely warning of impending flood danger Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RF	PG Recommended		
	S □ No ✓		





Primera Action #2 FME ID: 151000029

FME Description

Construct a large retention/detention pond in the northwest part of town to hold water during heavy rain events.

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- ☐ Flood risk modeling/mapping✓ Flood mitigation study
- Study Area

City/ Cities Primera

County/ Counties Cameron

HUC 8 12110208

HUC 12 121102080700

Study Area (sq. mi.) 0.1

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Population at Risk

Roadways flooded Yes ✓ No □ Critical Facilities Impacted Yes □ No □

Notes:

☐ Feasibility Assessments

 $\ \square$ Alternative Analysis $\ \square$ Flood preparedness studies



Frequency of flooding:
of structures inundated
Miles inundated?

Agricultural Land impacted Yes

No

Study Costs

Funding Dedicated?

Total Cost: \$92,400 Study Sponsor: Primera Estimated year to start: 2018 Entity with Oversight Time to complete? 2020 Included in a Hazard Mitigation Yes \checkmark No \Box

Yes □ No ✓

Action Plan or other plan?

(Potential) Source of Funding Local Funds; HMGP; Cameron County

Drainage District

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osec	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain		management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
□ ✓	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs
	routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000030

South Padre Island #6

FME Description

Upgrade undersized culverts throughout the Island to increase capacity and reduce flood risk.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis□ Feasibility Assessments
- ☐ Flood preparedness studies

Study Area

City/ Cities South Padre

County/ Counties Cameron

HUC 8 12110208

HUC 12 121102081000

Study Area (sq. mi.) 4.62

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Ye Population at Risk

Roadways flooded Yes ✓ No □ Critical Facilities Impacted Yes □ No □

Notes:



Frequency of flooding: # of structures inundated Miles inundated?

Agricultural Land impacted

Yes □ No □

Study Costs

Total Cost: \$1,848,000 Study Sponsor: South Padre Island Estimated year to start: 2018 Entity with Oversight South Padre Island Time to complete? 2020 Included in a Hazard Mitigation Yes ✓ No □

Action Plan or other plan?

Funding Dedicated? Yes $\ \square$ No $\ \checkmark$ (Potential) Source of Funding HMGP; CDBG

No 🗆

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Flood Management Evaluations

FME ID: **151000031**

Fact Sheet

Dimmit County

Yes ✓ No 🗆

FME Description Develop Flood risk maps for the	county of	f Dimmit	and develop CIP	
Study Type ✓ Flood risk modeling/mapping ✓ Flood mitigation study	5		Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies
Study Area City/ Cities			Insert snip of Lo	ocation Map here
County/ Counties Dimmit				
HUC 8				
HUC 12				
Study Area (sq. mi.) 172.15				
Emergency Need Yes ✓ No □				
Known Flood Risk History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ Yes □ Yes □	No 🗆 No 🗆	Frequency: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	Yes □		(Potential) Source of Funding	Yes □ No ✓
Study identified as a	gap by	/ Regi	on 15 Regional Flood Pla	anning Group (RFPG)



Flood Management Evaluations
Fact Sheet

	ovisions of Title 31 of TAQC Chapters 36	1 aı	nd 362.
Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs Increase the coverage of available flood hazard data by completing studies with identified construction projects to		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage CIP list Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC)
	address flooding hazards Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		flood warning system information into their local capabilities to disseminate warnings Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
٦F	PG Recommended		
Yes	□ No ✓		





Flood Management Evaluations

FME ID: 151000032

Fact Sheet

Edwards County

FME Description	
Develop Flood risk maps for the county o	f Edwards and develop CIP
Study Type	
✓ Flood risk modeling/mapping	☐ Alternative Analysis ☐ Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments
Study Area	
City/ Cities	Insert snip of Location Map here
County/ Counties Edwards	
HUC 8	
HUC 12	
Study Area (sq. mi.) 138.80	
Emergency Need	
Yes ✓ No □	
Known Flood Risk	
History of Flooding? Yes ✓	· · ·
Population at Risk Roadways flooded Yes	# of structures inundated No Miles inundated?
Critical Facilities Impacted Yes Notes:	No □ Agricultural Land impacted Yes □ No □
Notes.	
Study Costs	
Total Cost: \$25 Estimated year to start:	50,000 Study Sponsor: Entity with Oversight
Time to complete?	Included in a CIP or other plan? Yes □ No ✓
Funding Dedicated? Yes	No ✓ (Potential) Source of Funding
Study identified as a gap by	Region 15 Regional Flood Planning Group (RFPG)

Yes ✓ No 🗆



Flood Management Evaluations Fact Sheet

orc	ovisions of Title 31 of TAQC Chapters 36	1 aı	nd 362.
Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage
✓	Maps used to define SFHAs Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		CIP list Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
	PG Recommended		
Yes	□ No ✓		





Flood Management Evaluations Fact Sheet

FME ID: 151000033

FM 491 and Mile 3 Study

FME Description

Local Drainage Improvements- County Road 1771

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis
- ☐ Flood preparedness studies

Study Area

City/ Cities Mercedes

County/ Counties Hidalgo

> HUC 8 12110207

HUC 12

Study Area (sq. mi.) 0.81

Yes ✓ No 🗆

Emergency Need

Known Flood Risk

History of Flooding? Yes ✓ No 🗆 Population at Risk Roadways flooded Yes ✓ No 🗆

Critical Facilities Impacted Yes □ No □

Notes:



Frequency: # of structures inundated Miles inundated?

Agricultural Land impacted Yes ✓ No 🗆

Study Costs

Total Cost: \$60,000 Study Sponsor: HCDD1 Entity with Oversight Estimated year to start: 2023 HCDD1 Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No 🗆

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Management Evaluations
Fact Sheet

	ovisions of Title 31 of TAQC Chapters 36: \checkmark No \Box	т а	Tu 302.
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate		Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage
✓	Maps used to define SFHAs Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		CIP list Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program Increase acreage of publicly protected open space in critical		Increase use of nature-based flood risk reduction projects. Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger. Increase the amount of publicly owned land in the region.
	flood risk areas that is reused for a beneficial public use		that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
	PG Recommended □ No ✓		





Flood Management Evaluations
Fact Sheet

☐ Flood preparedness studies

FME ID: 151000034

Pumps and Sumps Study

FME Description

Pump Station H & Sump

Study Type

- ☐ Flood risk modeling/mapping✓ Flood mitigation study
- Study Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207

HUC 12

Study Area (sq. mi.) 0.31

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$217,500 Study Sponsor: HCDD1 Estimated year to start: 2023 Entity with Oversight HCDD1 Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

✓ Alternative Analysis





Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Flood Management Evaluations Fact Sheet

FME ID: **151000035**

Pumps and Sumps Study

FME Description

Pump Station I & Sump

Study Type

- ☐ Flood risk modeling/mapping✓ Flood mitigation study
- ✓ Alternative Analysis□ Feasibility Assessments
- $\hfill\Box$ Flood preparedness studies

Study Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207

HUC 12

Study Area (sq. mi.) 3.73



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$388,500 Study Sponsor: HCDD1 Estimated year to start: 2023 Entity with Oversight HCDD1 Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as Yes ✓ No □ a benefit cost ratio or the number of structures the project removes from the 100-year floodplain?			
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: 151000036

Pumps and Sumps Study

FME Description

Pump Station J & Sump

Study Type

- $\ \square$ Flood risk modeling/mapping
- \checkmark Flood mitigation study

- ✓ Alternative Analysis□ Feasibility Assessments
- $\hfill\Box$ Flood preparedness studies

Study Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207

HUC 12

Study Area (sq. mi.) 6.23



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$310,500 Study Sponsor: HCDD1 Estimated year to start: 2023 Entity with Oversight HCDD1 Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





☐ Flood preparedness studies

FME ID: **151000037**

Pumps and Sumps Study

FME Description

Pump Station K

Study Type

- ☐ Flood risk modeling/mapping✓ Flood mitigation study
- Study Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207

HUC 12

Study Area (sq. mi.) 0.1

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$165,000 Study Sponsor: HCDD1 Estimated year to start: 2023 Entity with Oversight HCDD1 Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

✓ Alternative Analysis

 Feasibility Assessments 	;			
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Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: 151000038

Pumps and Sumps Study

FME Description

Pump Station L

Study Type

- ☐ Flood risk modeling/mapping ✓ Flood mitigation study

Study Area

City/ Cities

County/ Counties Hidalgo

> HUC 8 12110207

HUC 12

Study Area (sq. mi.) 1.30

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? No 🗆 Frequency: Yes ✓ Population at Risk # of structures inundated Roadways flooded Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$165,000 \$Study Sponsor: HCDD1 Estimated year to start: Entity with Oversight HCDD1 2023 Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No 🗆 Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓

✓ Alternative Analysis ☐ Flood preparedness studies ☐ Feasibility Assessments





Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





☐ Flood preparedness studies

FME ID: **151000039**

Lott Rd & Soderquist Study

FME Description

Local Drainage Improvements- North of Lott Road and East of Soderquist Rd.

Study Type

- $\hfill \square$ Flood risk modeling/mapping
- ✓ Flood mitigation study

Study Area

City/ Cities Donna

County/ Counties Hidalgo

HUC 8 12110207

HUC 12

Study Area (sq. mi.) 0.27

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$190,500 Study Sponsor: HCDD1 Estimated year to start: 2023 Entity with Oversight HCDD1 Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

✓ Alternative Analysis





Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FACT Sneet

Mile 2 E & Expy 83 Study

Expy 03 Study

FME Description

Local Drainage Improvements- North of Interstate 2 and West of Mile 2 1/2

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

Study Area

City/ Cities Mercedes

County/ Counties Hidalgo

HUC 8 12110207

HUC 12

Study Area (sq. mi.) 0.43

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

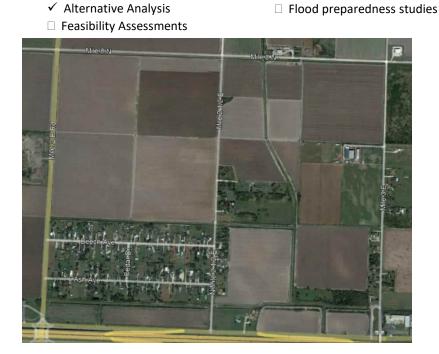
Notes:

Study Costs

Total Cost: \$215,250 Study Sponsor: HCDD1 Estimated year to start: 2023 Entity with Oversight HCDD1 Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



Yes 🗆 No 🗆



Yes □ No ✓

FME

Flood Management Evaluations
Fact Sheet

Yes	✓ No 🗆		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
□ □ □ □ □ · ✓ · □ □ □ □ □ □ □ □ □ □ □ □	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage CIP list Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website Increase the use reverse 911, TV, radio, social media, and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by
	billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
₹FI	PG Recommended		





Flood Management Evaluations

☐ Flood preparedness studies

Fact Sheet

TX 88 & W Sugar Cane Dr Study

FME ID: 151000041

FME Description

Channel Improvements- Ditch 17B2A1, Ditch 17B2A1 Detention West, Local Drainage Improvements (North of W Sugar Cane West of Ditch17B2A1), Ditch 17B2A1 Detention East, and Local Drainage Improvements (North of W Sugar Cane East of Ditch17B2A1)

✓ Alternative Analysis

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

Study Area

City/ Cities Weslaco

County/ Counties Hidalgo

HUC 8 12110207

HUC 12

Study Area (sq. mi.)

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No 🗆 Population at Risk

Roadways flooded Yes ✓ No 🗆

Critical Facilities Impacted

Notes:



Frequency: # of structures inundated

Miles inundated?

Agricultural Land impacted Yes □ No □

Study Costs

Total Cost: \$375,900 Study Sponsor: HCDD1 Estimated year to start: 2023 **Entity with Oversight** HCDD1 Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No 🗆

Funding Dedicated? (Potential) Source of Funding Yes □ No ✓

Yes □ No □

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes 🗆 No) √
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Yes □ No ✓

FME

Flood Management Evaluations
Fact Sheet

Yes	✓ No 🗆		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
□ □ □ □ □ · ✓ · □ □ □ □ □ □ □ □ □ □ □ □	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage CIP list Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website Increase the use reverse 911, TV, radio, social media, and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by
	billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
₹FI	PG Recommended		





Flood Management Evaluations

Fact Sheet

Mile 11 N & Mile 6 W Study

FME ID: 151000042

FME Description

Channel Improvements- Ditch 17B2A1A, Channel Improvements- Ditch 7T,7T1, Local Drainage Improvements- West of Ditch17B2A1A, and Ditch 17B2A1 Detention West

Study Type

- ☐ Flood risk modeling/mapping✓ Flood mitigation study
- ✓ Alternative Analysis□ Feasibility Assessments
- $\hfill \square$ Flood preparedness studies

Study Area

City/ Cities Weslaco

County/ Counties Hidalgo

HUC 8 12110207

HUC 12

Study Area (sq. mi.)



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Population at Risk

Roadways flooded Yes ✓ No □ Critical Facilities Impacted Yes □ No □

Notes:

Frequency: # of structures inundated Miles inundated?

Agricultural Land impacted Yes □ No □

Study Costs

Total Cost: \$570,300 Study Sponsor: HCDD1 Estimated year to start: 2023 Entity with Oversight HCDD1 Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Management Evaluations Fact Sheet

orc	ovisions of Title 31 of TAQC Chapters 36	1 aı	nd 362.
Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage
✓	Maps used to define SFHAs Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		CIP list Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
	PG Recommended		
Yes	□ No ✓		





☐ Flood preparedness studies

FME ID: **151000043**

Clark Rd & Mile 1 E Improvements

FME Description

Channel Improvements- Ditch 19,19B,19H,23; Local Drainage Improvements-Los Laureles; Local Detention-Los Laureles; Local Drainage Improvements-Clark road and Mile 1 Road; and Bypass Channel and Sump Area for Pump Station

✓ Alternative Analysis

Study Type

- ☐ Flood risk modeling/mapping✓ Flood mitigation study
- Study Area

City/ Cities Mercedes

County/ Counties Hidalgo

HUC 8 12110207

HUC 12

Study Area (sq. mi.) 12.3

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No ☐ Population at Risk

Critical Facilities Impacted Yes □ No □

Yes ✓

No 🗆

Notes:

✓ No □ Frequency:

of structures inundated Miles inundated?

Agricultural Land impacted Yes
No

Study Costs

Roadways flooded

Total Cost: \$1,526,550 Study Sponsor: HCDD1 Estimated year to start: 2023 Entity with Oversight HCDD1 Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)





Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: 151000043

Clark Rd & Mile 1 E Study

FME Description

Channel Improvements- Ditch 19,19B,19H,23; Local Drainage Improvements-Los Laureles; Local Detention-Los Laureles; Local Drainage Improvements-Clark road and Mile 1 Road; and Bypass Channel and Sump Area for Pump Station

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study
- Study Area

City/ Cities Mercedes

County/ Counties Hidalgo

> HUC 8 12110207

HUC 12

Study Area (sq. mi.) 12.3

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Population at Risk

Roadways flooded No 🗆 Critical Facilities Impacted Yes □ No □

Yes ✓

Notes:

No 🗆 Frequency: # of structures inundated

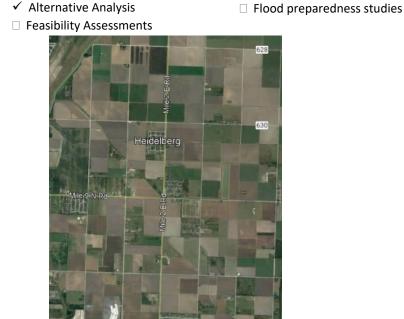
Miles inundated?

Agricultural Land impacted Yes
No

Study Costs

Study Sponsor: HCDD1 **Total Cost:** \$1,526,550 Estimated year to start: 2023 **Entity with Oversight** HCDD1 Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No 🗆 **Funding Dedicated?** (Potential) Source of Funding Yes □ No ✓

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)





Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: **151000044**

International & E Mile 5 N Study

FME Description

Channel Improvements just upstream of Ditch 35B; Culvert Improvements; Detention North of Llano Grande Lake Just West of 3 Mile Rd; 2- 130,000 GPM Pumps; Channel Improvements Ditch 34, 34B, 34BExt; Regional Detention; Bypass channel from Ditch 34; and Culvert Improvements-Ditch 34 Passing International Blvd.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies

Study Area

City/ Cities Weslaco

County/ Counties Hidalgo

HUC 8 12110207

HUC 12

Study Area (sq. mi.) 1.71



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □

Population at Risk

Roadways flooded Yes ✓ No □

Critical Facilities Impacted Yes □ No □

Frequency:
of structures inundated
Miles inundated?
Agricultural Land impacted Yes
No

Study Costs

Notes:

Total Cost: \$1,093,500 Study Sponsor: HCDD1 Estimated year to start: 2023 Entity with Oversight HCDD1 Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: **151000045**

S Alamo and Rancho Blanco Study

FME Description

Local Drainage Improvements-Storm Drain and Detention North of Rancho Blanco and east of S. Alamo Road

Study Type

- $\hfill \square$ Flood risk modeling/mapping
- ✓ Flood mitigation study

Study Area

City/ Cities Alamo

County/ Counties Hidalgo

HUC 8 12110207

HUC 12

Study Area (sq. mi.) 0.03

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Fostilities Imposted

Critical Facilities Impacted Yes \square No \square Agricultural Land impacted Yes \square No \square

Notes:

Study Costs

Total Cost: \$525,750 Study Sponsor: HCDD1 Estimated year to start: 2023 Entity with Oversight HCDD1 Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)





Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: 151000046

FM 1423 and Main Grove Study

FME Description

Local Drainage Improvements- Main Street, North Street

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis ☐ Feasibility Assessments
- ☐ Flood preparedness studies

Study Area

City/ Cities Donna

County/ Counties Hidalgo

> HUC 8 12110207

HUC 12

Study Area (sq. mi.) 0.12

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ Population at Risk Roadways flooded Yes ✓ No 🗆

Critical Facilities Impacted Yes □ No □

Notes:



Frequency: # of structures inundated Miles inundated?

Agricultural Land impacted Yes □ No □

Study Costs

Total Cost: \$107,100 Study Sponsor: HCDD1 Estimated year to start: **Entity with Oversight** HCDD1 2023 Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No 🗆

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

No 🗆

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Management Evaluations Fact Sheet

	as the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
	as the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remove		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage CIP list Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		Management Association Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: **151000047**

FM 1423 and Nolana Study

FME Description

Local Drainage Improvements--Storm Drain and Detention South of Earling Road West of Val Verde Street

Study Type

- ☐ Flood risk modeling/mapping✓ Flood mitigation study
- ✓ Alternative Analysis□ Feasibility Assessments
- $\hfill \square$ Flood preparedness studies

Study Area

City/ Cities Donna

County/ Counties Hidalgo

HUC 8 **12110207**

HUC 12

Study Area (sq. mi.) 0.38



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No □	Frequency:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No \square	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No □	Agricultural Land impacted	Yes 🗆	No 🗆

Study Costs

Notes:

Total Cost:	\$321,000	Study Sponsor:	HCDD1	
Estimated year to start:	2023	Entity with Oversight	HCDD1	
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓	No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding		

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: **151000048**

N Tower Study

FME Description

Local Drainage Improvements-Storm Drain North of Minnesota Road

Study Type

- $\ \ \Box \ \ \textbf{Flood risk modeling/mapping}$
- $\checkmark \ \ \textbf{Flood mitigation study}$

- ✓ Alternative Analysis

 ☐ Feasibility Assessments
- $\hfill\Box$ Flood preparedness studies

No 🗆

Study Area

City/ Cities Alamo

County/ Counties Hidalgo

HUC 8 **12110207**

HUC 12

Study Area (sq. mi.)

Abertaro

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency:	
Population at Risk			# of structures inundated	
Roadways flooded	Yes ✓	No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆
Notes:				

Study Costs

Total Cost:	\$201,000	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: 151000049

Dillon and Roosevelt

FME Description

Local Drainage Improvements-Just North of E Roosevelt Rd

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis ☐ Feasibility Assessments
- ☐ Flood preparedness studies

Study Area

City/ Cities Donna

County/ Counties Hidalgo

> 12110207 HUC 8

HUC 12

Study Area (sq. mi.) 0.68



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? No 🗆 Yes ✓ Population at Risk Roadways flooded Yes ✓ No 🗆 Critical Facilities Impacted Yes □ No □

Frequency: # of structures inundated Miles inundated? Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$216,600 Study Sponsor: HCDD1 Estimated year to start: **Entity with Oversight** HCDD1 2023 Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No 🗆

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: **151000050**

Canton and Dillon

FME Description

Local Drainage Improvements-Along Canton Road and adjacent neighborhoods

Study Type

- ☐ Flood risk modeling/mapping✓ Flood mitigation study
- ✓ Alternative Analysis

 ☐ Feasibility Assessments
- $\hfill\Box$ Flood preparedness studies

Study Area

City/ Cities Donna

County/ Counties Hidalgo

HUC 8 12110207

HUC 12

Study Area (sq. mi.) 1.1



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$454,050 Study Sponsor: HCDD1 Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \bigcirc Funding Dedicated? Yes \bigcirc No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: **151000051**

FM 1925 and Mile 4 Study

FME Description

Local Drainage Improvements-Along Bernal Court

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis
- ☐ Flood preparedness studies

Study Area

City/ Cities Donna

County/ Counties Hidalgo

> 12110207 HUC 8

HUC 12

Study Area (sq. mi.) 0.16

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No 🗆 Population at Risk # of structures inundated Roadways flooded Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Agricultural Land impacted Yes □ No □ Yes □ No □

Study Costs

Notes:

Total Cost: \$143,550 Study Sponsor: HCDD1 Estimated year to start: **Entity with Oversight** HCDD1 2023 Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No 🗆 Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



Frequency:



Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: **151000052**

Pumps and	l Sump:	s Study	/
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FN/	IF	Descri	int	ion
IIV	L	DE3CH	μι	IUII

Pump Station A & Sump

Stud	у ⁻	Гу	pe	

☐ Flood risk modeling/mapping	✓ Alternative Analysis	☐ Flood preparedness studie
✓ Flood mitigation study	☐ Feasibility Assessments	

Study Area

City/ Cities

County/ Counties Hidalgo

HUC 8 **12110207**

HUC 12

Study Area (sq. mi.) 0.1

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$213,000	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Flood Management Evaluations

FME ID: **151000053**

Fact Sheet

Pumps and Sumps Study

HME	Descri	pt	Ion

Pump Station B & Sump

Study	. / 1 \	Inc
Juan	۷ I ۱	V

- ✓ Flood risk modeling/mapping
 ✓ Alternative Analysis
 ✓ Flood mitigation study
 ✓ Feasibility Assessments
- Study Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207

HUC 12

Study Area (sq. mi.)

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓No□ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No□ Miles inundated?

Critical Facilities Impacted Yes □ No□ Agricultural Land impacted Yes □ No□

Citical Facilities impacted fes - No -

Notes:

Study Costs

Total Cost: \$244,500 Study Sponsor: HCDD1 Estimated year to start: 2023 Entity with Oversight HCDD1 Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □					
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov							
Re	lated Goals							
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region					
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list					
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards							
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects					
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger					
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure					
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association					
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement					
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain					





FME ID: 151000054

Pumps & Sumps

FME Description Remove gate and improve emba	ankment		
Study Type			
☐ Flood risk modeling/mapping☐ Flood mitigation study		Iternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area			
City/ Cities			
County/ Counties Cameron	1		
HUC 8			
HUC 12			
Study Area (sq. mi.) 0.004885	5593		
Emergency Need Yes ✓ No □			
Known Flood Risk			
History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$9,000.00 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Drainage District #1 Hidalgo County Drainage District #1 Yes ✓ No □
Study identified as a s	gap by Regior	n 15 Regional Flood Pla	anning Group (RFPG)



Yes ✓ No 🗆

Yes ✓ No 🗆

FME

Flood Mitigation Evaluations
Fact Sheet

Wa	delines? is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	lated Goals	
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical	Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program	management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Flood Management Evaluations
Fact Sheet

FME ID: **151000055**

Pumps and Sumps Study

FME Description

Pump Station D

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis
- ☐ Feasibility Assessments
- $\hfill \square$ Flood preparedness studies

Study Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207

HUC 12

Study Area (sq. mi.) 4.67

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Population at Risk

Roadways flooded Yes ✓ No □ Critical Facilities Impacted Yes □ No □

Notes:



Frequency: # of structures inundated Miles inundated?

Agricultural Land impacted Yes

No

Study Costs

Total Cost: \$165,000 Study Sponsor: HCDD1 Estimated year to start: 2023 Entity with Oversight HCDD1 Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □					
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov							
Re	lated Goals							
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	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list					
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards							
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects					
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger					
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure					
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement					
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain					





Flood Management Evaluations
Fact Sheet

☐ Flood preparedness studies

FME ID: **151000056**

Pumps and Sumps Study

FME Description

Pump Station E & Sump

Study Type

- ☐ Flood risk modeling/mapping✓ Flood mitigation study
- Study Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207

HUC 12

Study Area (sq. mi.) 3.45

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$124,500 Study Sponsor: HCDD1 Estimated year to start: 2023 Entity with Oversight HCDD1 Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

✓ Alternative Analysis

Indian Hills

☐ Feas	sibility Ass	essments	5					
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Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □					
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov							
Re	lated Goals							
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region					
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list					
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards							
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects					
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger					
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement					
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain					





Flood Management Evaluations
Fact Sheet

FME ID: **151000057**

Pumps and Sumps Study

FME Description

Pump Station F & Sump

Study Type

☐ Flood risk modeling/mapping✓ Flood mitigation study

Study Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207

HUC 12

Study Area (sq. mi.) 12.4

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$480,000 Study Sponsor: HCDD1 Estimated year to start: 2023 Entity with Oversight HCDD1 Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)





Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □					
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov							
Re	lated Goals							
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region					
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list					
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards							
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects					
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger					
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain					





Flood Management Evaluations
Fact Sheet

☐ Flood preparedness studies

FME ID: **151000058**

Pumps and Sumps Study

FME Description

Pump Station G & Sump

Study Type

- ☐ Flood risk modeling/mapping✓ Flood mitigation study
- Study Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207

HUC 12

Study Area (sq. mi.) 2.71

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$271,500 Study Sponsor: HCDD1 Estimated year to start: 2023 Entity with Oversight HCDD1 Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

✓ Alternative Analysis

☐ Feasibilit	ty Assessments		
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Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □					
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov							
Re	lated Goals							
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region					
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list					
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards							
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects					
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger					
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure					
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain					





Flood Management Evaluations Fact Sheet

FME ID: **151000059**

Sullivan City Master Drainage Study

FME Description Develop Flood risk maps for the city of Sullivan City and develop CIP

Study Type ✓ Flood risk modeling ✓ Flood mitigation st			Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies	
Study Area					
City/ Cities	Sullivan City			Insert snip of Location Map her	е
County/ Counties	Hidalgo				
HUC 8	12110208				
HUC 12					
Study Area (sq. mi.)	3.60				
Emergency Ne Yes ✓ No 🗆	ed				
Known Flood R	lisk				
History of Flooding?	Yes ✓	No \square	Frequency: # of structures inundated		
Population at Risk Roadways flooded	Yes 🗆	No 🗆	# of structures inundated?		
Critical Facilities Impa Notes:	cted Yes 🗆	No 🗆	Agricultural Land impacted	Yes □ No □	
Study Costs					
Total Cost: Estimated year to star		0,000	Study Sponsor: Entity with Oversight		
Time to complete? Funding Dedicated?	Yes □	No √	Included in a CIP or other plan? (Potential) Source of Funding	Yes □ No ✓	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes ✓ No 🗆



Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Alton MDP - West Mile 5 Road and Louisiana FME ID: 151000060

Street Alternative 2

FME Description

Alternative 2 is designed to remove structures from the 10-year floodplain. Approximately 35 acre-feet of volume is proposed to be excavated. construction consists of 1,940 LF of 36-inch diameter pipe sloped at 0.2% along Louisiana, Kentucky, and Trosper Road out falling directly into the retention pond, 3 headwalls and approximately 9 inlets. Additional inlets and smaller pipe may be needed to catch low lying areas that pond between the houses or regrading with swales to take runoff to the street.

Study Type

☐ Flood risk modeling/mapping✓ Flood mitigation study

Study Area

City/ Cities Alton

County/ Counties Hidalgo

HUC 8 **12110207,**

12110208

HUC 12 121102080200.

121102080300

Study Area (sq. mi.) 0.1

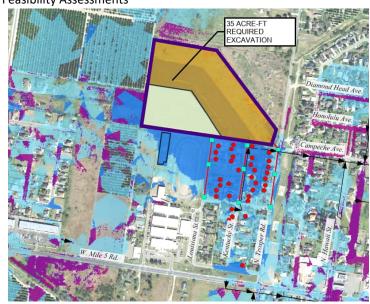
Emergency Need

Yes ✓ No 🗆

✓ Alternative Analysis

☐ Feasibility Assessments

 $\ \square$ Flood preparedness studies



Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$322,898 Study Sponsor: City of Alton Estimated year to start: 2023 **Entity with Oversight** City of Alton Time to complete? Included in a Hazard Mitigation 2025 Yes ✓ No 🗆 Action Plan or other plan? Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local



Flood Mitigation Evaluations Fact Sheet

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓							
the gui	dy identified because project could not be inc Region 15 Regional Flood Plan because it did dance for Regional Flood Planning or the prov 2. ✓ No□	me	et the minimum requirements, per TWDB				
	s the project missing sufficient data to assess whether the prop delines?	oosed	d project has a negative effect, per TWDB Yes ✓ No □				
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov						
Rel	ated Goals						
✓	Increase community access routes to critical facilities,		Increase the # of entities that adopt higher than NFIP-				
	evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		minimum standards Develop and maintain an operational stormwater asset				
	facilities within the existing and future 100-YR floodplain		management plan				
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region				
	Decrease the average age of FEMA Flood Insurance Rate		Increase the # of entities that have multi-year drainage				
	Maps used to define SFHAs		CIP list				
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings				
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects				
✓	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger				
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure				
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association				
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement				
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain				

RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations Fact Sheet

FME ID: 151000061

Alton MDP - FM 676 South Glasscock Road Alternative 3

FME Description Widening of FM 676 with a proposed storm drain system containing 54" reinforced concrete pipe.						
Study Type □ Flood risk modeling □ Flood mitigation sto			ternative Analysis asibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning		
Study Area City/ Cities County/ Counties	City of Alton Hidalgo					
HUC 8	v					
Study Area (sq. mi.)	0.049472213					
Emergency Ne Yes ✓ No □	Emergency Need Yes ✓ No □					
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:	Yes ✓ Yes ✓		Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No		
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?		59,000.00 2023 2025 □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Alton City of Alton Yes ✓ No □		
Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)						



Yes ✓ No 🗆

Yes ✓ No 🗆

FME

Flood Mitigation Evaluations
Fact Sheet

Wa	delines? is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	lated Goals	
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical	Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program	management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Alton MDP - North Inspiration Road and West

FME ID: 151000062

St. Jude Avenue Alternative 2

FME Description

Alternative 2, is designed to remove structures from the 25-year floodplain and more frequent storms. This alternative consists of upsizing the storm drain under West St Jude Avenue. The trunk line will consist of 1,900 LF of a single 7' X 5' reinforced concrete box sloped at 0.5% from the area just west of the neighborhood on W. St. Jude Avenue to the West Main Drain Channel, downstream (north) of the existing 10' X 7' box culvert.

Study Type

- ☐ Flood risk modeling/mapping✓ Flood mitigation study
- Study Area

City/ Cities Alton

County/ Counties Hidalgo

HUC 8 **12110207**,

12110210

HUC 12 **121102080200.**

121102080300

Study Area (sq. mi.) 0.16

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ Population at Risk

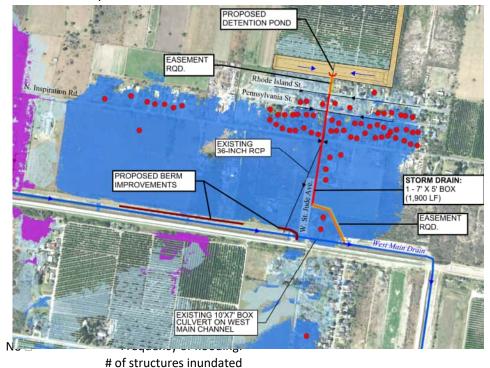
Roadways flooded Yes ✓ No ☐ Critical Facilities Impacted Yes ☐ No ☐

Notes:

✓ Alternative Analysis

☐ Feasibility Assessments

☐ Flood preparedness studies



Yes 🗆 No 🗆

Miles inundated?

Agricultural Land impacted

Study Costs

Total Cost: \$422,690 Study Sponsor: City of Alton Estimated year to start: 2023 Entity with Oversight City of Alton Time to complete? 2025 Included in a Hazard Mitigation Yes \checkmark No \square

Action Plan or other plan?

Funding Dedicated?

Yes □ No ✓ (Potential) Source of Funding FIF, local

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Flood Mitigation Evaluations Fact Sheet

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓ Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362. Yes ✓ No 🗆 Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB No 🗆 guidelines? Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as No 🗆 a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Related Goals Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPevacuation routes, during and after a flooding event minimum standards Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Increase the # of flood gauges (rainfall/stream) in the Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage Maps used to define SFHAs Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and provide timely warning of impending flood danger program Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance repeated flooding events through property buyouts penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Alton MDP - West Mile 5 and South Glasscock Road Alternative 3

FME ID: 151000063

FME Description

Alternative 3 is simply the buyout and removal of 23 properties on the north side of Buchanan from the 10-year floodplain. Once structures are removed, the vacant land can be excavated and used as a park/regional retention pond.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

✓ Alternative Analysis

☐ Feasibility Assessments

 $\hfill \square$ Flood preparedness studies

Study Area

City/ Cities Alton

County/ Counties Hidalgo

HUC 8 12110207,

12110213

HUC 12 121102080200,

121102080300

Study Area (sq. mi.) 0.23

Bomingo Trevino Middle School Wiguchanan Avo

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:	
Population at Risk			# of structures inundated	
Roadways flooded	Yes ✓	No \square	Miles inundated?	
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes □ No □

Notes:

Study Costs

Total Cost:	\$249 <i>,</i> 480	Study Sponsor:	City of Alton
Estimated year to start:	2023	Entity with Oversight	City of Alton
Time to complete?	2025	Included in a Hazard Mitigation	Yes ✓ No 🗆
		Action Plan or other plan?	
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes □ No ✓

FME

Flood Mitigation Evaluations
Fact Sheet

362			
Yes	✓ No □		
	s the project missing sufficient data to assess whether the propellines?	oseo	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rela	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
✓	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFP	G Recommended		





Weslaco Stormwater Improvement Plan -

Pleasantview Drive and 11th Street

FME Description

Installation of 3,220 LF of new storm drain system consisting of two – 8' x 4' RCBs along Mile 3 ½.

Study Type

- ☐ Flood risk modeling/mapping ✓ Flood mitigation study
- ✓ Alternative Analysis ☐ Feasibility Assessments
- ☐ Flood preparedness studies

FME ID: 151000064

Study Area

City/ Cities Weslaco

County/ Counties Hidalgo

HUC 8 12110207,

12110228

HUC 12 121102080100,

121102080300

Study Area (sq. mi.)



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency of flooding: Yes ✓ No 🗆 Population at Risk # of structures inundated Roadways flooded Miles inundated? Yes ✓ No 🗆 Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$819,390 Study Sponsor: City of Weslaco Estimated year to start: Entity with Oversight City of Weslaco Time to complete? Included in a Hazard Mitigation Yes ✓ No 🗆

Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes □ No ✓

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum

req	uirements, per TWDB guidance for Region	al F	-lood Planning or the provisions of Title
31 (of TAQC Chapters 361 and 362.		
	✓ No □		
	the project missing sufficient data to assess whether the proposed elines?	d pro	ject has a negative effect, per TWDB Yes ✓ No □
	the project recommended by the RFPG to be studied in order for efit cost ratio or the number of structures the project removes from		
Rela	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFP	G Recommended		





Weslaco Stormwater Improvement Plan - Mile 10 N and Mile 5 ½ W

FME ID: 151000065

FME Description

Construction of an 8 acre detention pond, with approximately 4,000 LF of channel widening along the back of the neighborhoods and between the Justice Raul A. Gonzalez Elementary School and Joe Calvillo Jr Career & Technology Education Complex; replacement of existing undersized channel culvert with two – 8' x 5' reinforced concrete boxes (RCBs), and adding two – 8' x 5' RCBs to connect the existing drainage ditches to the drain channel system on the east.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis ☐ Feasibility Assessments
- ☐ Flood preparedness studies

No 🗆

Study Area

City/ Cities Weslaco

County/ Counties Hidalgo

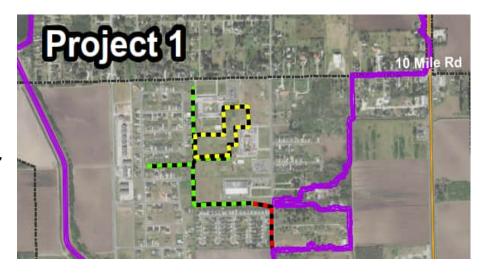
HUC 8 12110207,

12110230

HUC 12 121102080100.

121102080300

Study Area (sq. mi.) 0.40



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No \square	Frequency of flooding:	
Population at Risk			# of structures inundated	
Roadways flooded	Yes ✓	No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆
Notes:				

Study Costs

Total Cost: \$666,151 Study Sponsor: City of Weslaco **Entity with Oversight** City of Weslaco Estimated year to start: Time to complete? Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan? Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local



Flood Mitigation Evaluations Fact Sheet

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓ Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362. Yes ✓ No 🗆 Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB No 🗆 guidelines? Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as No 🗆 a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Related Goals Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPevacuation routes, during and after a flooding event minimum standards Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Increase the # of flood gauges (rainfall/stream) in the Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage Maps used to define SFHAs Increase the # of entities that integrate National Weather Increase the coverage of available flood hazard data by completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and provide timely warning of impending flood danger program Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance repeated flooding events through property buyouts penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Flood Mitigation Evaluations

Fact Sheet

Weslaco Stormwater Improvement Plan - South International Boulevard and Business 83

FME Description

Replacement of 48 – inch culverts at two roadway crossings with 6' x 4' RCBs.

Study Type

- ☐ Flood risk modeling/mapping ✓ Flood mitigation study
- ✓ Alternative Analysis

☐ Feasibility Assessments

☐ Flood preparedness studies

FME ID: 151000066

Study Area

City/ Cities Weslaco

County/ Counties Hidalgo

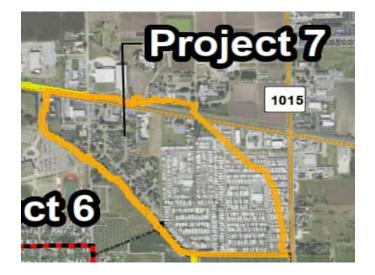
HUC 8 12110207,

12110231

HUC 12 121102080100,

121102080300

Study Area (sq. mi.)



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency of flooding: No 🗆 Population at Risk # of structures inundated Roadways flooded Miles inundated? Yes ✓ No 🗆 Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$14,071 Study Sponsor: City of Weslaco Estimated year to start: **Entity with Oversight** City of Weslaco Time to complete? Included in a Hazard Mitigation Yes ✓ No 🗆

Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes □ No ✓

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum

req	uirements, per TWDB guidance for Region	al F	-lood Planning or the provisions of Title
31 (of TAQC Chapters 361 and 362.		
	✓ No □		
	the project missing sufficient data to assess whether the proposed elines?	d pro	ject has a negative effect, per TWDB Yes ✓ No □
	the project recommended by the RFPG to be studied in order for efit cost ratio or the number of structures the project removes from		
Rela	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFP	G Recommended		





Weslaco Stormwater Improvement Plan - Texas Boulevard to Airport Drive, South of Business 83 FME ID: 151000067

FME Description

Construction of two detention ponds, 10 acres near Texas Boulevard and 18th Street and 3 acres south of Dawson Street, a berm, approximately 5,400 LF of channel widening and extension, and installation of an 8' x 4' RCB storm drain system near Border

Study Type

- ☐ Flood risk modeling/mapping ✓ Flood mitigation study
- Study Area

City/ Cities Weslaco

County/ Counties Hidalgo

HUC 8 12110207,

12110232

HUC 12 121102080100,

121102080300

Study Area (sq. mi.)

Emergency Need

Yes ✓ No 🗆

✓ Alternative Analysis ☐ Flood preparedness studies ☐ Feasibility Assessments



Known Flood Risk

History of Flooding? Frequency of flooding: No 🗆 Population at Risk # of structures inundated Roadways flooded Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes 🗆 No 🗆

Notes:

Study Costs

Total Cost: \$6,597,680 Study Sponsor: City of Weslaco Estimated year to start: **Entity with Oversight** City of Weslaco Time to complete? Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan? **Funding Dedicated?** (Potential) Source of Funding Yes □ No ✓ FIF, local



Flood Mitigation Evaluations Fact Sheet

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓							
the gui	dy identified because project could not be inc Region 15 Regional Flood Plan because it did dance for Regional Flood Planning or the prov 2. ✓ No□	me	et the minimum requirements, per TWDB				
	s the project missing sufficient data to assess whether the prop delines?	oosed	d project has a negative effect, per TWDB Yes ✓ No □				
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov						
Rel	ated Goals						
✓	Increase community access routes to critical facilities,		Increase the # of entities that adopt higher than NFIP-				
	evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		minimum standards Develop and maintain an operational stormwater asset				
	facilities within the existing and future 100-YR floodplain		management plan				
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region				
	Decrease the average age of FEMA Flood Insurance Rate		Increase the # of entities that have multi-year drainage				
	Maps used to define SFHAs		CIP list				
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings				
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects				
✓	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger				
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure				
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association				
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement				
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain				

RFPG Recommended





Weslaco Stormwater Improvement Plan - West FME ID: 151000068 Weslaco

FME Description

The Study is located just west of Border Avenue, between US 83 and Zelma Street. Construction of three detention ponds, 18 acres east of Vaughn Road and Midway Road, 26 acres near West 6th Street and Milano Road and 60 acres at Harlon Block Sports Complex, approximately 17,000 LF of channel widening connecting the ponds, and installation of approximately 4500 LF of large (8' x 4', 8' x 5', 8' x 6') RCB storm drain system to improve conveyance along the channels to the ponds.

Study Type

- ☐ Flood risk modeling/mapping✓ Flood mitigation study
- Study Area

City/ Cities Weslaco

County/ Counties Hidalgo

HUC 8 **12110207**,

12110233

HUC 12 121102080100.

121102080300

Study Area (sq. mi.) 2.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$5,595,880 Study Sponsor: City of Weslaco Estimated year to start: Entity with Oversight Time to complete? Included in a Hazard Mitigation Yes ✓ No □

Time to complete? Included in a Hazard Mitigation Action Plan or other plan?

Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding FIF, local

☐ Feasibility Assessments

 $\hfill \square$ Flood preparedness studies





Flood Mitigation Evaluations Fact Sheet

	dy identified as a gap by Region 15 Regional F □ No ✓	loo	d Planning Group (RFPG)
the gui	dy identified because project could not be inc Region 15 Regional Flood Plan because it did dance for Regional Flood Planning or the prov 2. ✓ No□	me	et the minimum requirements, per TWDB
	s the project missing sufficient data to assess whether the prop delines?	oosed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities,		Increase the # of entities that adopt higher than NFIP-
	evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain		management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate		Increase the # of entities that have multi-year drainage
	Maps used to define SFHAs		CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
✓	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





FME ID: 151000069 Weslaco Stormwater Improvement Plan -Westgate Drive and Sugar Cane Drive

FME Description

Construction of two detention ponds, 11 acres near Clecker-Heald Elementary School and 8 acres behind the commercial properties north of Interstate 2, approximately 4,500 LF of channel widening connecting the two ponds, addition of a new 42-inch reinforced concrete pipe (RCP) culvert east of Border Avenue, and installation of approximately 5,600 LF of an 8' x 4' RCB storm drain system along West Paisano Lane and East Ballard Street.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies

Study Area

City/ Cities Weslaco

County/ Counties Hidalgo

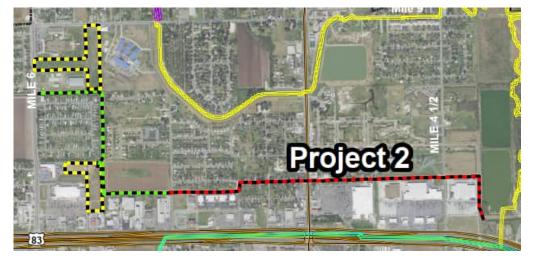
HUC 8 12110207,

12110234

HUC 12 121102080100.

121102080300

Study Area (sq. mi.) 1.58



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

•			
Total Cost:	\$1,664,860	Study Sponsor:	City of Weslaco
Estimated year to start:		Entity with Oversight	City of Weslaco
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No 🗆
		Action Plan or other plan?	
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	FIF, local



Flood Mitigation Evaluations Fact Sheet

	dy identified as a gap by Region 15 Regional F □ No ✓	loo	d Planning Group (RFPG)
the gui	dy identified because project could not be inc Region 15 Regional Flood Plan because it did dance for Regional Flood Planning or the prov 2. ✓ No□	me	et the minimum requirements, per TWDB
	s the project missing sufficient data to assess whether the prop delines?	oosed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities,		Increase the # of entities that adopt higher than NFIP-
	evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain		management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate		Increase the # of entities that have multi-year drainage
	Maps used to define SFHAs		CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
✓	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Precinct 4 MDP - Risk Area A at Mile 8.5 Rd. & FME ID: 151000071 Ware Rd.

FME Description

Approximately 1 mile of proposed channel improvements. Proposed culverts. Proposed Detention Ponds with pond north of Mile 8.5 Rd. to collect runoff from the west and has an approximate footprint of 12 acres and storage capacity of 60 acre-ft and will outfall south towards the pond south of Mile 8.5 Rd.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis□ Feasibility Assessments
- $\hfill \square$ Flood preparedness studies

Study Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,

12110279

HUC 12 121102080400,

121102070100,

121102080200

Study Area (sq. mi.) 0.79

PR: Detention Pond (Approx. 12 Acres/00 Acre-ft) PR: 2 8 M/ PCB Under Mile 8 S Rd. PR: Detention Pond (Approx. 8 3 Acres/30 Acre-ft) PR: Detention Pond (App

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes □ No □

Notes:

Study Costs

Total Cost:	\$2,984,850	Study Sponsor:	Hidalgo County Precinct 4
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Precinct 4
Time to complete?	2025	Included in a Hazard Mitigation	Yes ✓ No 🗆
		Action Plan or other plan?	
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	FIF, local



Flood Mitigation Evaluations Fact Sheet

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓ Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362. Yes ✓ No 🗆 Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB No 🗆 guidelines? Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as No 🗆 a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Related Goals Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPevacuation routes, during and after a flooding event minimum standards Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Increase the # of flood gauges (rainfall/stream) in the Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage Maps used to define SFHAs Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and provide timely warning of impending flood danger program Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance repeated flooding events through property buyouts penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Precinct 4 MDP - Risk Area B at Mile 6 & North Ware Rd.

FME ID: 151000072

FME Description

Regional Detention Facilities with a pond footprint of 25 acres along the Existing HCDD1 West Main Drain. Storm Drain and Local Drainage Improvements. Channel maintenance.

Study Type

- $\hfill \square$ Flood risk modeling/mapping
- ✓ Flood mitigation study

✓ Alternative Analysis

☐ Feasibility Assessments

☐ Flood preparedness studies

Study Area

City/ Cities

County/ Counties Hidalgo

HUC 8 **12110207**,

12110280

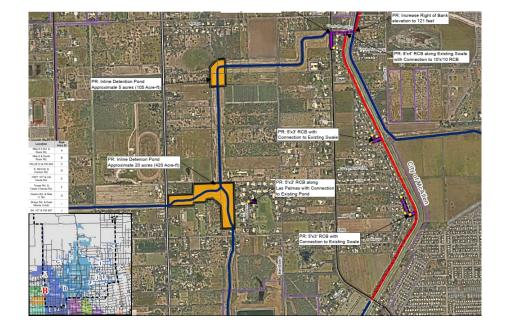
HUC 12 121102080400,

121102070100,

121102080200,

121102080200

Study Area (sq. mi.) 0.15



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Yes ✓ No □ Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes □ No □

Notes:

Study Costs

Total Cost:	\$4,076,320	Study Sponsor:	Hidalgo County Precinct 4
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Precinct 4
Time to complete?	2025	Included in a Hazard Mitigation	Yes ✓ No 🗆
		Action Plan or other plan?	
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	FIF, local



Flood Mitigation Evaluations Fact Sheet

	dy identified as a gap by Region 15 Regional F □ No ✓	loo	d Planning Group (RFPG)
the gui	dy identified because project could not be inc Region 15 Regional Flood Plan because it did dance for Regional Flood Planning or the prov 2. ✓ No□	me	et the minimum requirements, per TWDB
	s the project missing sufficient data to assess whether the propellines?	oosed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities,		Increase the # of entities that adopt higher than NFIP-
	evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain		management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate		Increase the # of entities that have multi-year drainage
	Maps used to define SFHAs		CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
✓	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Precinct 4 MDP - Risk Area C at FM 2812 & FM FME ID: 151000073 493

FME Description

Channel Improvements (Widening & Regrading) to Existing J-01 Drain with approximately 1.5 miles of proposed improvements. Channel Improvements (Channel Maintenance & Flowline Regrading) to Existing DA-1 Ext. Drain with approximately 0.4 miles of proposed improvements. Proposed detention pond will have an approximate footprint of 9 acres and storage capacity of 90 acre-ft. Grate inlets & proposed storm drain channel maintenance & debris removal.

Study Type

- ☐ Flood risk modeling/mapping✓ Flood mitigation study
- ✓ Alternative Analysis

 ☐ Feasibility Assessments
- $\ \square$ Flood preparedness studies

Study Area

City/ Cities

County/ Counties Hidalgo

HUC 8 **12110207**,

12110281

HUC 12 121102080400,

121102070100,

121102080200,

121102080200

Study Area (sq. mi.) 3.23

PR. Charmett Widening From Subdivision J. 14. Darial System Improvements (Details Provided) PR. 6x8 PCB Linear Crossing with Mile 21.5 N (FM 2812) PR. 42 DIA Storm Drain with Mile 21.5 N (FM 2812) PR. 45 DIA Storm Drain with Mile 21.5 N (FM 2812) PR. 45 DIA Storm Drain with Mile 21.5 N (FM 2812) PR. 45 DIA Storm Drain with Mile 21.5 N (FM 2812) PR. 45 DIA Storm Drain with Mile 21.5 N (FM 2812) PR. 45 DIA Storm Drain with Mile 21.5 N (FM 2812) PR. 45 DIA Storm Drain with Mile 21.5 N (FM 2812) PR. 45 DIA RCP with Connection to J.40 Drain PR. 45 DIA RCP With Connection to DA-1 Extension Drain Reprint Mile 21.5 N (FM 2812) PR. 10 DIA RCP With Connection to DA-1 Extension Drain Reprint Mile 21.5 N (FM 2812) PR. 10 DIA RCP With Connection to DA-1 Extension Drain Reprint Mile 21.5 N (FM 2812) PR. 10 DIA RCP With Connection to DA-1 Extension Drain Reprint Mile 21.5 N (FM 2812) PR. 10 DIA RCP With Connection to DA-1 Extension Drain Reprint Mile 21.5 N (FM 2812) PR. 10 DIA RCP With Connection to DA-1 Extension Drain Reprint Mile 21.5 N (FM 2812) PR. 10 DIA RCP With Connection to DA-1 Extension Drain Reprint Mile 21.5 N (FM 2812) PR. 10 DIA RCP With Connection to DA-1 Extension Drain Reprint Mile 21.5 N (FM 2812) PR. 10 DIA RCP With Connection to DA-1 Extension Drain Reprint Mile 21.5 N (FM 2812) PR. 10 DIA RCP With Connection to DA-1 Extension Drain Reprint Mile 21.5 N (FM 2812) PR. 10 DIA RCP With Connection to DA-1 Extension Drain Reprint Mile 21.5 N (FM 2812) PR. 10 DIA RCP With Connection to DA-1 Extension Drain Reprint Mile 21.5 N (FM 2812) PR. 10 DIA RCP With Connection to DA-1 Extension Drain Reprint Mile 21.5 N (FM 2812) PR. 10 DIA RCP With Connection to DA-1 Extension Drain Reprint Mile 21.5 N (FM 2812) PR. 10 DIA RCP With Connection to DA-1 Extension Drain Reprint Mile 21.5 N (FM 2812) PR. 10 DIA RCP With Connection to DA-1 Extension Drain Reprint Mile 21.5 N (FM 2812) PR. 10 DIA RCP With Connection to DA-1 Extension Drain Reprint Mile 21.5 N (FM 2812

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$1,183,050 Study Sponsor: Hidalgo County Precinct 4 Estimated year to start: 2023 **Entity with Oversight** Hidalgo County Precinct 4 2025 Time to complete? Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan? (Potential) Source of Funding **Funding Dedicated?** Yes □ No ✓ FIF, local



Flood Mitigation Evaluations Fact Sheet

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓ Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362. Yes ✓ No 🗆 Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? No 🗆 Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit Yes ✓ No 🗆 cost ratio or the number of structures the project removes from the 100-year floodplain? Related Goals Increase community access routes to critical facilities, evacuation Increase the # of entities that adopt higher than NFIP-minimum routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities Develop and maintain an operational stormwater asset within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Flood Increase the # of flood gauges (rainfall/stream) in the region Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps Increase the # of entities that have multi-year drainage CIP list used to define SFHAs Increase the coverage of available flood hazard data by completing Increase the # of entities that integrate National Weather studies with identified construction projects to address flooding Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water reuse Develop a regionally coordinated warning and emergency applications or as part of a floodplain management program response program that can detect the flood threat and provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical flood Increase the amount of publicly owned land in the region that risk areas that is reused for a beneficial public use can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically targeting Increase the proficiency of floodplain managers by increasing municipal floodplain managers, hosted by Region 15 RFPG and the # of them that are certified as Certified Floodplain Managers available on the website (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by

RFPG Recommended

shelter locations

billboards to communicate flood warnings, evacuation routes, and

Reduce the # of structures that have been subject to repeated

flooding events through property buyouts

Yes □ No ✓

encouraging Region 15 floodplain management programs to

and FMPs; incorporate noncompliance penalties; and who

regulate development in the future conditions floodplain

incorporate dedicated drainage fees to implement future FMEs





Precinct 4 MDP - Risk Area D at S. McColl & FME ID: 151000074

Canton Rd.

FME Description

Channel Improvements (Widening & Regrading) to Existing McAllen Lateral & North Main Drain with approximately 2.25 miles of proposed improvements from S McColl St. to State Highway 107. Crossings at W Canton Rd., W Freddy Gonzalez Dr., and W Sprague St. were all evaluated up to the 25-year design storm criteria for upsizing evaluation.

Study Type

- ☐ Flood risk modeling/mapping
- \checkmark Flood mitigation study

✓ Alternative Analysis

☐ Feasibility Assessments

 $\hfill \square$ Flood preparedness studies

Study Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,

12110282

HUC 12 **121102080400**,

121102070100,

121102080200,

121102080200

Study Area (sq. mi.) 1.40

PR: Culvert Improvements of Existing North Main Drain PR: Culvert Improvements of Existing North Main Drain Base of Exi

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □

Population at Risk

Roadways flooded Yes ✓ No □

Critical Facilities Impacted Yes □ No □

Study Costs

Notes:

Total Cost: \$953,700 Study Sponsor: **Hidalgo County Precinct 4** Estimated year to start: 2023 **Entity with Oversight** Hidalgo County Precinct 4 2025 Included in a Hazard Mitigation Yes ✓ No 🗆 Time to complete? Action Plan or other plan? **Funding Dedicated?** (Potential) Source of Funding Yes □ No ✓ FIF, local



RFPG Recommended

Yes □ No ✓

FME

Flood Mitigation Evaluations Fact Sheet

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓ Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362. Yes ✓ No 🗆 Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB No 🗆 guidelines? Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as No 🗆 a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Related Goals Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPevacuation routes, during and after a flooding event minimum standards Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Increase the # of flood gauges (rainfall/stream) in the Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage Maps used to define SFHAs Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and provide timely warning of impending flood danger program Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance repeated flooding events through property buyouts penalties; and who regulate development in the future conditions floodplain





Precinct 4 MDP - Risk Area E at Hwy 107 & Val

FME ID: 151000075

Verde Rd.

FME Description

Channel Improvements with approximately 0.3 miles of proposed improvements. Proposed detention pond north of Tex-Mex Rd. and east of S 87th St. has an approximate footprint of 4.25 acres and capacity of 20 acre-ft. Grate Inlets and Proposed Storm Drain 5'x5' grate inlets spaced along every 500' of storm drain with a 4'x2' RCB along S 85th St.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies

Study Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,

12110283

HUC 12 121102070100,

121102080200,

121102080400,

Study Area (sq. mi.) 0.1

SAWE TEXT MEXICAL TO THE T

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No ☐ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No ☐ Miles inundated?

Critical Facilities Impacted Yes ☐ No ☐ Agricultural Land impacted Yes ☐ No ☐ Notes:

Study Costs

Total Cost: \$747,450 Study Sponsor: **Hidalgo County Entity with Oversight Hidalgo County** Estimated year to start: 2023 Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No 🗆 **Funding Dedicated?** Yes □ No ✓ (Potential) Source of Funding FIF, Local



Flood Management Evaluations

Fact Sheet

	dy identified as a gap by Region 15 Regional F □ No ✓	loo	d Planning Group (RFPG)
the guid 362	dy identified because project could not be inc Region 15 Regional Flood Plan because it did dance for Regional Flood Planning or the prov ✓ No□	me	et the minimum requirements, per TWDB
	s the project missing sufficient data to assess whether the prop delines?	osec	I project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rela	ated Goals		
✓	Increase community access routes to critical facilities,		Increase the # of entities that adopt higher than NFIP-
	evacuation routes, during and after a flooding event		minimum standards
	Reduce the # of newly constructed vulnerable critical		Develop and maintain an operational stormwater asset
П	facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		management plan Increase the # of flood gauges (rainfall/stream) in the
	Flood Insurance Program		region
	Decrease the average age of FEMA Flood Insurance Rate		Increase the # of entities that have multi-year drainage
	Maps used to define SFHAs		CIP list
	Increase the coverage of available flood hazard data by		Increase the # of entities that integrate National Weather
	completing studies with identified construction projects to address flooding hazards		Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
\checkmark	Provide regional detention that could be used for water		Develop a regionally coordinated warning and emergency
	reuse applications or as part of a floodplain management		response program that can detect the flood threat and
	program		provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically		Increase the proficiency of floodplain managers by
	targeting municipal floodplain managers, hosted by Region		increasing the # of them that are certified as Certified
	15 RFPG and available on the website		Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and		Increase participation in the Community Rating System by
	billboards to communicate flood warnings, evacuation		encouraging Region 15 floodplain management programs
	routes, and shelter locations Reduce the # of structures that have been subject to		to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future
	repeated modding events through property buyouts		conditions floodplain





Precinct 4 MDP - Risk Area F at Texas Rd. & Cesar Chavez Rd.

FME ID: 151000076

FME Description

Channel Improvements with approximately 0.6 miles of proposed improvements. Grate Inlets and Proposed Storm Drain with grate inlets in sag spaced along every 500' tying into a 42" RCP along Cesar Chavez Road starting at just south of Texas Rd to the Curry Drain. Culvert Improvements with connections between the proposed open channels and existing HCDD1 Edinburg Stub will require the installation of 4'x3' RCBs.

Study Type

- \Box Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies

Study Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,

12110284

HUC 12 121102070100,

121102080200,

121102080400,

Study Area (sq. mi.) 0.56



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆 No 🗆	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$1,188,000	Study Sponsor:	Hidalgo County
Estimated year to start:	2023	Entity with Oversight	Hidalgo County
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	FIF, Local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Management Evaluations Fact Sheet

	_		-
Yes		Nο	✓

Study identified because project could not be included as an Flood Mitigation Project (FMP) ir
the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB
guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and
362.

	Region 15 Regional Flood Plan because it did dance for Regional Flood Planning or the prov				
Yes					
Was	the project missing sufficient data to assess whether the proposed p	roject	t has a negative effect, per TWDB guidelines?	Yes ✓ 1	No □
	the project recommended by the RFPG to be studied in order for it to ratio or the number of structures the project removes from the 100-			Yes ✓ 1	No □
Rela	ated Goals				
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than standards	NFIP-mir	nimum
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood		Develop and maintain an operational stormwate management plan Increase the # of flood gauges (rainfall/stream)		ion
	Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps		Increase the # of entities that have multi-year d		
	used to define SFHAs Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate Nationa Service and USGS Texas Water Science Center (1 warning system information into their local capa disseminate warnings	TXWSC) flo	ood
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		☐ Increase use of nature-based flood risk reduction projects		/
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in t can be utilized for future regional stormwater in		
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers the # of them that are certified as Certified Floo (CFM) with the Texas Floodplain Management A	dplain Ma	anagers
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and		Increase participation in the Community Rating encouraging Region 15 floodplain management	System by programs	y s to
	shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		incorporate dedicated drainage fees to impleme and FMPs; incorporate noncompliance penalties regulate development in the future conditions f	s; and who	0
RFP	G Recommended				

Yes □ No 🗸





Precinct 4 MDP - Risk Area G at Hoehn Rd. & Mile 11 Rd.

FME ID: 151000077

FME Description

Channel Improvements with approximately 0.75 miles of proposed improvements. Proposed Pond north of County Road 3424 and west of County Road 3421 has an approximate footprint of 5 acres and capacity of 35 acre-ft. Grate Inlets and Proposed Storm Drain 5'x5' grate inlets will be located at the southwest corner of Eubanks and County Road 3424 with a connection to a 42" DIA RCP storm drain. Proposed culverts.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies

Study Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,

12110285

HUC 12 121102070100,

121102080200,

121102080400,

Study Area (sq. mi.) 0.79



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □
Population at Risk
Roadways flooded Yes ✓ No □

Critical Facilities Impacted Yes □ No □

Notes:

Frequency: # of structures inundated Miles inundated?

Agricultural Land impacted Yes \square No \square

Study Costs

Total Cost: \$909,150 **Hidalgo County** Study Sponsor: Estimated year to start: 2023 **Entity with Oversight Hidalgo County** Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No 🗆 **Funding Dedicated?** (Potential) Source of Funding FIF, Local Yes □ No ✓



Flood Management Evaluations

Fact Sheet

	videntified as a gap by Region 15 Regional F No ✓	lood	d Planning Group (RFPG)
the R	videntified because project could not be inc egion 15 Regional Flood Plan because it did nce for Regional Flood Planning or the prov	me	et the minimum requirements, per TWDB
Was t guidel	he project missing sufficient data to assess whether the propines?	osed	project has a negative effect, per TWDB Yes ✓ No □
	he project recommended by the RFPG to be studied in order efit cost ratio or the number of structures the project remov		
Relat	ed Goals		
ee er e	crease community access routes to critical facilities, vacuation routes, during and after a flooding event educe the # of newly constructed vulnerable critical acilities within the existing and future 100-YR floodplain increase the # of communities participating in the National lood Insurance Program ecrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs increase the coverage of available flood hazard data by completing studies with identified construction projects to didress flooding hazards accesse participation in the regional flood planning process rovide regional detention that could be used for water euse applications or as part of a floodplain management rogram increase accessed of publicly protected open space in critical good risk areas that is reused for a beneficial public use		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage CIP list Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater
□ Ir ta 1	ncrease outreach and education activities, specifically argeting municipal floodplain managers, hosted by Region 5 RFPG and available on the website		infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
b ro	ncrease the use reverse 911, TV, radio, social media, and illboards to communicate flood warnings, evacuation outes, and shelter locations educe the # of structures that have been subject to epeated flooding events through property buyouts		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Precinct 4 MDP - Risk Area I at Sharp Rd. & E Monte Cristo Rd

FME ID: 151000078

FME Description

Inlets and proposed storm drain with Approximately 1,100' of 4'x4' RCB storm drain with curb inlets to be installed along Hendrix Dr. and Gaston Cr. with approximately 1,200' of 6'x4' RCB storm with grate and sag inlets along Uresti Rd. with connection to the HCDD1 J-02 Drain. Proposed installation of grate and sag inlets along Mile 19 Rd. (Phase Two) and proposed installation of grate and sag inlets along Sharp Rd. (Phase Two). Proposed Culverts Improvements (Phase One). Proposed detention pond with 9 acre footprint. Channel maintenance.

Study Type

- ☐ Flood risk modeling/mapping ✓ Flood mitigation study
- Study Area

City/ Cities

County/ Counties Hidalgo

> HUC 8 12110207,

> > 12110286

HUC 12 121102080400,

121102070100,

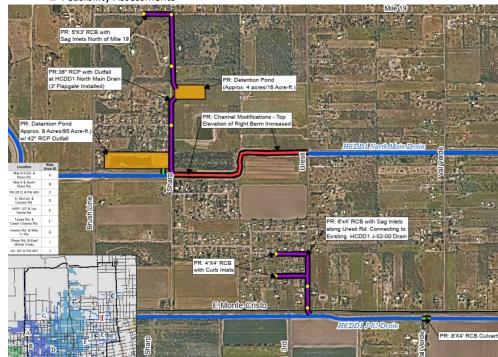
121102080200,

121102080200

Study Area (sq. mi.) 0.73

✓ Alternative Analysis ☐ Feasibility Assessments

☐ Flood preparedness studies



Yes □ No □

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Population at Risk Roadways flooded

Critical Facilities Impacted

Notes:

No □

Frequency of flooding: # of structures inundated Miles inundated?

Yes ✓ No 🗆 Yes □ No □

Agricultural Land impacted

Study Costs

Funding Dedicated?

Total Cost: \$899,250 Study Sponsor: Hidalgo County Precinct 4 Estimated year to start: 2023 **Entity with Oversight** Hidalgo County Precinct 4 2025 Time to complete? Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan?

Yes □ No ✓

(Potential) Source of Funding FIF, local

Page 1 of 2



Yes □ No ✓

FME

Flood Mitigation Evaluations Fact Sheet

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓ Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362. Yes ✓ No 🗆 Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? No 🗆 Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit Yes ✓ No 🗆 cost ratio or the number of structures the project removes from the 100-year floodplain? Related Goals Increase community access routes to critical facilities, evacuation Increase the # of entities that adopt higher than NFIP-minimum routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities Develop and maintain an operational stormwater asset within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Flood Increase the # of flood gauges (rainfall/stream) in the region Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps Increase the # of entities that have multi-year drainage CIP list used to define SFHAs Increase the coverage of available flood hazard data by completing Increase the # of entities that integrate National Weather studies with identified construction projects to address flooding Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water reuse Develop a regionally coordinated warning and emergency applications or as part of a floodplain management program response program that can detect the flood threat and provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical flood Increase the amount of publicly owned land in the region that risk areas that is reused for a beneficial public use can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically targeting Increase the proficiency of floodplain managers by increasing municipal floodplain managers, hosted by Region 15 RFPG and the # of them that are certified as Certified Floodplain Managers available on the website (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation routes, and encouraging Region 15 floodplain management programs to shelter locations incorporate dedicated drainage fees to implement future FMEs Reduce the # of structures that have been subject to repeated and FMPs; incorporate noncompliance penalties; and who flooding events through property buyouts regulate development in the future conditions floodplain RFPG Recommended





Precinct 4 MDP - Risk Area J at SH107 & FM FME ID: 151000079

FME Description

Channel Improvements (Widening & Regrading) to Existing HCDD1 "Y" drain with approximately 0.75 miles of proposed channel improvements beginning at Fresno Dr. and ending at E Curry Rd. Proposed Drainage Grate Inlets approximately 3,800' of storm drain to provide local drainage improvements north and west of existing HCDD1 "Y" Drain in two separate systems. Proposed culverts improvements. Proposed detention pond with a 2.7 acre footprint.

Study Type

- \Box Flood risk modeling/mapping
- ✓ Flood mitigation study
- Study Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,

12110287

HUC 12 **121102070100**,

121102080200,

121102080400.

Study Area (sq. mi.) 0.15

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost:	\$541,200	Study Sponsor:	Hidalgo County
Estimated year to start:	2023	Entity with Oversight	Hidalgo County
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	FIF, Local

✓ Alternative Analysis

☐ Feasibility Assessments

 $\ \square$ Flood preparedness studies







Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓ Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362. Yes ✓ No 🗆 Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? No □ Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit Yes ✓ No 🗆 cost ratio or the number of structures the project removes from the 100-year floodplain? Related Goals Increase community access routes to critical facilities, evacuation Increase the # of entities that adopt higher than NFIP-minimum routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities Develop and maintain an operational stormwater asset within the existing and future 100-YR floodplain management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps Increase the # of entities that have multi-year drainage CIP list used to define SFHAs Increase the coverage of available flood hazard data by completing Increase the # of entities that integrate National Weather studies with identified construction projects to address flooding Service and USGS Texas Water Science Center (TXWSC) flood hazards warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water reuse Develop a regionally coordinated warning and emergency applications or as part of a floodplain management program response program that can detect the flood threat and provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical flood Increase the amount of publicly owned land in the region that risk areas that is reused for a beneficial public use can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically targeting Increase the proficiency of floodplain managers by increasing municipal floodplain managers, hosted by Region 15 RFPG and the # of them that are certified as Certified Floodplain Managers available on the website (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation routes, and encouraging Region 15 floodplain management programs to shelter locations incorporate dedicated drainage fees to implement future FMEs Reduce the # of structures that have been subject to repeated and FMPs; incorporate noncompliance penalties; and who flooding events through property buyouts regulate development in the future conditions floodplain RFPG Recommended Yes □ No ✓





FME ID: 151000080

Mercedes Project Area 111

Yes □ No ✓

FME Description Provide channel and culvert improvements for the outlined ditches. (Mercedes Ditch 19, 19A, Anaquitas Drain)						
Study Type	AI	tornativa Analysis	□ Flood propared pass studios			
☐ Flood risk modeling/mapping☐ Flood mitigation study		ternative Analysis asibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning			
Study Area City/ Cities						
County/ Counties Hidalgo						
HUC 8						
HUC 12						
Study Area (sq. mi.) 0.08275 6	5907					
Emergency Need						
Yes ✓ No 🗆						
Known Flood Risk						
History of Flooding? Population at Risk	Yes ✓ No 🗆	Frequency of flooding: # of structures inundated				
Roadways flooded	Yes ✓ No 🗆	Miles inundated?				
Critical Facilities Impacted Notes:	Yes □ No □	Agricultural Land impacted	Yes No			
Study Costs						
Total Cost:	\$1,151,000.00 2023	Study Sponsor: Entity with Oversight	Hidalgo County Drainage District No. 1 Hidalgo County Drainage District No. 1			
Estimated year to start: Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No □			
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding				

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

Yes ✓ No 🗆

FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Wa	delines? is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov					
Rel	lated Goals					
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical	Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset				
	facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program	management plan Increase the # of flood gauges (rainfall/stream) in the region				
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list				
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings				
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger				
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure				
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association				
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement				
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain				





Flood Mitigation Evaluations

FME ID: 151000081

Fact Sheet

East Mercedes Project Area 112a

FME Description Provide channel and culv	ert improvements for the I	Mercedes Ditch 23, North of IH 2.	
Study Type ☐ Flood risk modeling/m ☐ Flood mitigation study		Alternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area City/ Cities			
,,	ameron		
HUC 8			
HUC 12 Study Area (sq. mi.) 0.	262293577		
Study Area (sq. IIII.)	20223377		
Emergency Need Yes ✓ No □			
Known Flood Ris History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacte Notes:	Yes ✓ No □ Yes ✓ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$454,000.00 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Drainage District No. 1 Hidalgo County Drainage District No. 1 Yes ✓ No □
Study identified a	as a gap by Regio	n 15 Regional Flood Pla	anning Group (RFPG)



Yes ✓ No 🗆

Yes ✓ No 🗆

FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Wa	delines? is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov					
Rel	lated Goals					
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical	Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset				
	facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program	management plan Increase the # of flood gauges (rainfall/stream) in the region				
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list				
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings				
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger				
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure				
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association				
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement				
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain				





FME ID: **151000082**

Jim Hogg County Master Drainage Study

FME Description Develop Flood risk maps for the county of Jim Hogg and develop CIP Study Type √ Flood risk modeling/mapping ✓ Alternative Analysis ☐ Flood preparedness studies ✓ Flood mitigation study ☐ Feasibility Assessments Study Area City/ Cities Insert snip of Location Map here County/ Counties Jim Hogg HUC 8 **HUC 12** Study Area (sq. mi.) 870.56 **Emergency Need** Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes □ No □	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes 🗆 No 🗆
Notes:			
Study Costs			
Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes □ No ✓
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes ✓ No 🗆



Flood Management Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: 151000083

Kenedy County Master Drainage Study

FME Description Develop Flood risk maps for the county of Kenedy and develop CIP Study Type √ Flood risk modeling/mapping ✓ Alternative Analysis ☐ Flood preparedness studies ✓ Flood mitigation study ☐ Feasibility Assessments

Study Area City/ Cities			Insert snip of Location Map I
County/ Counties	Kenedy		
HUC 8			
HUC 12			
Study Area (sq. mi.)	1478.25		
Emergency Ne	ed		

Ε

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes □ No □	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost: \$250,000 Study Sponsor: Estimated year to start: **Entity with Oversight** Time to complete? Included in a CIP or other plan? Yes □ No ✓ Funding Dedicated? (Potential) Source of Funding Yes □ No ✓

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes ✓ No 🗆



Flood Management Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: **151000084**

Fort Clark MUD Master Drainage Study

FME Description				
Develop Flood risk maps for Fo	ort Clark M	UD and de	evelop CIP	
Study Type				
		,	Ali	
✓ Flood risk modeling/mappi✓ Flood mitigation study	ng		Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies
Study Area				
City/ Cities				Insert snip of Location Map her
County/ Counties Kinney	,			
HUC 8				
HUC 12				
Study Area (sq. mi.) 4.21				
, () ,				
Emergency Need				
Yes ✓ No 🗆				
Known Flood Risk				
History of Flooding?	Yes ✓	No 🗆	Frequency:	
Population at Risk	res v	INO 🗆	# of structures inundated	
Roadways flooded	Yes 🗆	No 🗆	Miles inundated?	
Critical Facilities Impacted Notes:	Yes 🗆	No 🗆	Agricultural Land impacted	Yes No
Study Costs				
Total Cost:	\$25	50,000	Study Sponsor:	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓

Entity with Oversight

Yes □ No ✓

Included in a CIP or other plan?

(Potential) Source of Funding

Yes ✓ No 🗆

Estimated year to start:

Time to complete?

Funding Dedicated?



Flood Management Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Kinney County Master Drainage Study

FME ID: 151000085

FN/	IF.	\Box	esc	riı	nti	ion
1 1 7	_	$\boldsymbol{\mathcal{L}}$	CSC	וויי		\mathbf{O}

Study Type ✓ Flood risk modeling/mapping ✓ Flood mitigation study Study Area City/ Cities County/ Counties Kinney HUC 8 HUC 12 Study Area (sq. mi.) 751.29 Emergency Need Yes ✓ No□ Known Flood Risk History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes: Study Costs Total Cost: Study Sponsor: Entity with Oversight Included in a CIP or other plan? Yes □ No ✓ (Potential) Source of Funding	Pevelop Flood risk maps for the	county of I	Kinney	and develop CIP	
City/ Cities County/ Counties Kinney HUC 8 HUC 12 Study Area (sq. mi.) 751.29 Emergency Need Yes ✓ No □ Known Flood Risk History of Flooding? Yes ✓ No □ Frequency: Population at Risk Roadways flooded Yes □ No □ Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □ Study Costs Total Cost: \$250,000 Estimated year to start: Time to complete? Stude Contact Included in a CIP or other plan? Yes □ No ✓	✓ Flood risk modeling/mapping	5		·	☐ Flood preparedness studies
Yes ✓ No □ Known Flood Risk History of Flooding? Yes ✓ No □ Frequency: Population at Risk Roadways flooded Yes □ No □ Miles inundated? Critical Facilities Impacted Notes: Study Costs Total Cost: \$250,000 Study Sponsor: Estimated year to start: Time to complete? Study Coste Included in a CIP or other plan? Yes □ No ✓	City/ Cities County/ Counties Kinney HUC 8 HUC 12				Insert snip of Location Map here
History of Flooding? Yes ✓ No □ Frequency: Population at Risk # of structures inundated Roadways flooded Yes □ No □ Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □ Notes: Study Costs Total Cost: \$250,000 Study Sponsor: Estimated year to start: Entity with Oversight Time to complete? Included in a CIP or other plan? Yes □ No ✓					
Total Cost: \$250,000 Study Sponsor: Estimated year to start: Entity with Oversight Time to complete? Included in a CIP or other plan? Yes □ No ✓	History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted	Yes 🗆 🛭	No 🗆	# of structures inundated Miles inundated?	Yes No
	Total Cost: Estimated year to start: Time to complete?			Entity with Oversight Included in a CIP or other plan?	Yes □ No ✓

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes ✓ No 🗆



Yes ✓ No 🗆

FME

Flood Management Evaluations Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Related Goals	Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB Yes ✓ No ☐ guidelines?				
 □ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event □ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain □ Increase the # of communities participating in the National Flood Insurance Program □ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAS □ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards □ Increase participation in the regional flood planning process □ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program □ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website □ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations □ Reduce the # of entities that adopt higher than NFIP-minimum standards □ Develop and maintain an operational stormwater asset management plan management plan increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage (CIP list □ Increase the # of entities that have multi-year drainage □ Increase the # of entities that have multi-year drainage □ Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings □ Increase the # of entities that have multi-year drainage □ Increase the # of entities that integrate National Provide region all stormwater asset the # of entities that integrate National Increase the #					
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□ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAS Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards □ Increase participation in the regional flood planning process □ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program □ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use □ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website □ Increase the se reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations □ Reduce the # of structures that have been subject to repeated flooding events through property buyouts □ Increase and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings □ Increase use of nature-based flood risk reduction project Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure □ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System be encouraging Region 15 floodplain management program to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future	Ш				
 □ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs □ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards □ Increase participation in the regional flood planning process □ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program □ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use □ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website □ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations □ Reduce the # of entities that have multi-year drainage CIP list □ Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings □ Increase use of nature-based flood risk reduction project Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure □ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association □ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations □ Increase the # of them that are certified as Certified Floodplain management program □ Inc		· · · · · · · · · · · · · · · · · · ·			
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 □ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program □ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use □ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website □ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations □ Reduce the # of structures that have been subject to repeated flooding events through property buyouts □ Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger □ Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure □ Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association □ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations □ Reduce the # of structures that have been subject to repeated flooding events through property buyouts 	✓	completing studies with identified construction projects to		flood warning system information into their local	
that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts that can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future		Provide regional detention that could be used for water reuse applications or as part of a floodplain management			
targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System to encouraging Region 15 floodplain management program to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future					
billboards to communicate flood warnings, evacuation routes, and shelter locations encouraging Region 15 floodplain management program to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance repeated flooding events through property buyouts penalties; and who regulate development in the future		targeting municipal floodplain managers, hosted by Region		increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain	
repeated flooding events through property buyouts penalties; and who regulate development in the future		billboards to communicate flood warnings, evacuation		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement	
				penalties; and who regulate development in the future	

RFPG Recommended





FME ID: 151000086

Risk Area 11 Rancho Escondido

FME Description

Study includes constructing 10'x2' U-shaped channel from Flores Drive to just south of Microtel Inn Suites, replacing existing culvert under Maza Drive with 1-8'x4 RCB, and installing curb inlet at cul-de-sac on Nancy Drive.

Study Type

- ☐ Flood risk modeling/mapping ✓ Flood mitigation study
- Study Area

City/ Cities **Eagle Pass**

County/ Counties Maverick

> HUC 8 13080001,

> > 13080002

HUC 12 130800020703,

130800020702

Study Area (sq. mi.) 0.03

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Population at Risk Roadways flooded

Critical Facilities Impacted Yes □ No □

Notes:

Yes ✓ No 🗆

Yes ✓ No 🗆

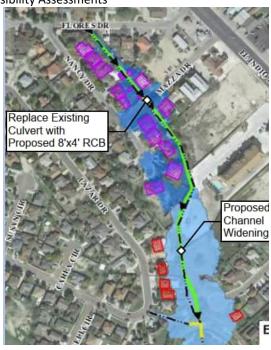
✓ Alternative Analysis

☐ Feasibility Assessments

☐ Flood preparedness studies

City of Eagle Pass

City of Eagle Pass



Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted Yes
No

Study Costs

Total Cost: \$136,785 Study Sponsor: Estimated year to start: **Entity with Oversight**

Time to complete? Included in a Hazard Mitigation Yes ✓ No 🗆

Action Plan or other plan?

Funding Dedicated? (Potential) Source of Funding FIF, local Yes □ No ✓

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop	oosed	d project has a negative effect, per TWDB Yes ✓ No □
_	delines? s the project recommended by the RFPG to be studied in order	for i	t to provide more project details, such as Yes ✓ No □
a be	enefit cost ratio or the number of structures the project remov	es fro	om the 100-year floodplain?
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





☐ Flood preparedness studies

FME ID: 151000087

Risk Area 12 Fox Borough Drive

FME Description

Study includes bypassing flow from inlet at PointLoma Drive and North Point Drive to the detention pond with 1 - 8'x4' RCB and Installing additional curb inlets on N. Point Drive and Silver Oak Circle.

✓ Alternative Analysis

Study Type

- ☐ Flood risk modeling/mapping✓ Flood mitigation study
- Study Area

City/ Cities Eagle Pass

County/ Counties Maverick

HUC 8 13080001,

13080002

HUC 12 130800020703,

130800020702

Study Area (sq. mi.) 0.05

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Study Costs

Notes:

Total Cost: \$177,870 Study Sponsor: City of Eagle Pass Estimated year to start: Entity with Oversight City of Eagle Pass Time to complete? Included in a Hazard Mitigation Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

☐ Feasibility Assessments	
SE CON	Proposed 4.5 acre Detention area
Proposed 2.5 acre Detention area	Risk Area 12 Add 2-36" RCP to Existing Culvert
FOXCO) E CIR	
LAS CIMAS DR. Proposed Channel Widening	CALLEDEL



Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop	oosed	d project has a negative effect, per TWDB Yes ✓ No □
_	delines? s the project recommended by the RFPG to be studied in order	for i	t to provide more project details, such as Yes ✓ No □
a be	enefit cost ratio or the number of structures the project remov	es fro	om the 100-year floodplain?
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000088

Risk Area 13 Celle De Los Santos neighborhood. Additional culvert under irrigation canal.

FME Description

Study includes upgrading existing culvert crossing irrigation canal from 2-6'x4' RCB to 4-6'x4' RCB.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies

Add 2-6'x4' RCB

to Existing Culvert

Risk Area 13

Study Area

City/ Cities **Eagle Pass**

County/ Counties Maverick

HUC 8 13080001,

13080002

HUC 12 130800020703,

130800020702

Study Area (sq. mi.)

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?

Population at Risk

Roadways flooded

Critical Facilities Impacted

Notes:



Yes ✓ No 🗆 Yes □ No □

Agricultural Land impacted Yes □ No □

Study Costs

Total Cost: Estimated year to start: Time to complete?

Funding Dedicated?

\$27,225

Yes □ No ✓

Study Sponsor: Entity with Oversight Included in a Hazard Mitigation

> Action Plan or other plan? (Potential) Source of Funding

FIF, local

City of Eagle Pass City of Eagle Pass Yes ✓ No 🗆

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes □ No ✓

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum

req	uirements, per TWDB guidance for Region	al F	-lood Planning or the provisions of Title
31 (of TAQC Chapters 361 and 362.		
	✓ No □		
	the project missing sufficient data to assess whether the proposed elines?	d pro	ject has a negative effect, per TWDB Yes ✓ No □
	the project recommended by the RFPG to be studied in order for efit cost ratio or the number of structures the project removes from		
Rela	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFP	G Recommended		





Risk Area 15 Trib 3 Detention at Main Street

FME ID: 151000089

FME Description

Study includes constructing 10 acre detention pond (29 ac-ft volume) along East Channel north of Highway 277 and installing flap-gates at flume outfalls on Omar Drive and Jana Drive, to prevent more frequent stormwater from backing up into the neighborhood on the west side of the channel.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies

Study Area

City/ Cities **Eagle Pass**

County/ Counties Maverick

> HUC 8 13080001,

> > 13080002

HUC 12 130800020703,

130800020702

Study Area (sq. mi.) 0.05

Emergency Need

Yes ✓ No 🗆

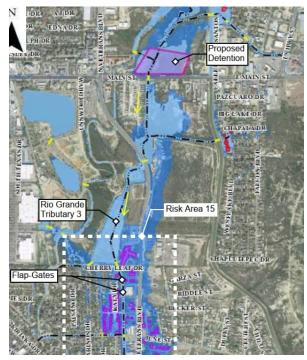
Known Flood Risk

History of Flooding? No 🗆 Population at Risk

Roadways flooded Yes ✓ No 🗆

Critical Facilities Impacted Yes 🗆 No 🗆

Notes:



Agricultural Land impacted

Study Costs

Total Cost: \$124,245 Study Sponsor: City of Eagle Pass Estimated year to start: Entity with Oversight City of Eagle Pass Included in a Hazard Mitigation Yes ✓ No 🗆 Time to complete?

Action Plan or other plan?

(Potential) Source of Funding FIF, local

Funding Dedicated? Yes □ No ✓

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes □ No ✓

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum

req	uirements, per TWDB guidance for Region	al F	-lood Planning or the provisions of Title
31 (of TAQC Chapters 361 and 362.		
	✓ No □		
	the project missing sufficient data to assess whether the proposed elines?	d pro	ject has a negative effect, per TWDB Yes ✓ No □
	the project recommended by the RFPG to be studied in order for efit cost ratio or the number of structures the project removes from		
Rela	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFP	G Recommended		





FME ID: 151000090

Risk Area 2 Treasure Hills

FME Description

Study includes constructing a 4' deep trapezoidal concrete channel with 8' bottom width and 2:1 side slopes, from detention pond outfall to existing culverts.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis
- ☐ Feasibility Assessments
- $\ \square$ Flood preparedness studies

Study Area

City/ Cities Eagle Pass

County/ Counties Maverick

HUC 8 13080001,

13080002

HUC 12 130800020703,

130800020702

Study Area (sq. mi.) 0.06

Flowers Street Detention Pond OLMOS PARK CIR FUNTAGONIOR POINT FORMADR TA Acre Watershed Contributes Runoff to a Single 48" Pipe Here SUNCRESTOR F SUN

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$89,595 Study Sponsor: City of Eagle Pass
Estimated year to start: Entity with Oversight
Time to complete? Included in a Hazard Mitigation
Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

City of Eagle Pass
City of Eagle Pass
(Pity of Eagle Pass Only No □

(Potential) Source of Funding

FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

	s the project missing sufficient data to assess whether the prop	oseo	d project has a negative effect, per TWDB Yes ✓ No □
_	delines? s the project recommended by the RFPG to be studied in order	for i	it to provide more project details, such as Yes ✓ No 🗆
	enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000091

Risk Area 3 Arrow Point Boulevard

FME Description

Study includes constructing small retaining wall at downstream of flume outfall to force flow towards Stone Way and constructing a 2' wide and 6" deep concrete flume from existing flume outfall to Stone Way.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis
- ☐ Feasibility Assessments
- $\ \square$ Flood preparedness studies

Study Are

City/ Cities Eagle Pass

County/ Counties Maverick

HUC 8 13080001,

13080002

HUC 12 130800020703,

130800020702

Study Area (sq. mi.) 0.02



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$7,920 Study Sponsor: City of Eagle Pass Estimated year to start: Entity with Oversight Time to complete? Included in a Hazard Mitigation Action Plan or other plan? City of Eagle Pass Ves ✓ No □

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

	s the project missing sufficient data to assess whether the prop	oseo	d project has a negative effect, per TWDB Yes ✓ No □
_	delines? s the project recommended by the RFPG to be studied in order	for i	it to provide more project details, such as Yes ✓ No 🗆
	enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





Risk Area 4 Bibb & Misty Willow storm drain FME ID: 151000092

FME Description

Study includes installing 6'x4' RCB along Misty Willow Drive from N Bibb Avenue to existing channel between N Bibb Avenue and Timber Valley and installing curb inlets on N Bibb Avenue and Misty Willow Drive.

Study Type

- ☐ Flood risk modeling/mapping✓ Flood mitigation study
- Study Area

City/ Cities Eagle Pass

County/ Counties Maverick

HUC 8 13080001,

13080002

HUC 12 130800020703,

130800020702

Study Area (sq. mi.) 0.02

Emergency Need

Yes ✓ No 🗆

✓ Alternative Analysis

☐ Feasibility Assessments

☐ Flood preparedness studies



Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$47,520 Study Sponsor: City of Eagle Pass
Estimated year to start: Entity with Oversight
Time to complete? Included in a Hazard Mitigation
Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

City of Eagle Pass
City of Eagle Pass
(Potential) Source of Funding
FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

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Flood Mitigation Evaluations
Fact Sheet

	s the project missing sufficient data to assess whether the prop	oseo	d project has a negative effect, per TWDB Yes ✓ No □
_	delines? s the project recommended by the RFPG to be studied in order	for i	it to provide more project details, such as Yes ✓ No 🗆
	enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000093

Risk Area 5 Debona Drive

FME Description

Study includes constructing a 5' deep trapezoidal channel approximately 30 feet wide with 3:1 side slopes and a 5' concrete pilot channel, replacing Juarez Street culvert with 8'x4' box culvert, and realigning existing channel to provide additional distance from homes.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

- ✓ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies

Study Area

City/ Cities Eagle Pass

County/ Counties Maverick

HUC 8 13080001,

13080002

HUC 12 130800020703,

130800020702

Study Area (sq. mi.) 0.02

Proposed Channel Widening Project removes flooding of intersection Eagle Pass Creek Tributary 2 BECKLEYAVE Proposed 8x4' RCB

Yes 🗆 No 🗆

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □

Population at Risk

Roadways flooded Yes ✓ No □

Critical Facilities Impacted Yes □ No □

Miles inundated? Agricultural Land impacted

Notes:

Study Costs

Total Cost: \$53,955 Study Sponsor: City of Eagle Pass Estimated year to start: Entity with Oversight City of Eagle Pass Time to complete? Included in a Hazard Mitigation Yes ✓ No □

Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes □ No ✓

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum

req	uirements, per TWDB guidance for Region	al F	-lood Planning or the provisions of Title
31 (of TAQC Chapters 361 and 362.		
	✓ No □		
	the project missing sufficient data to assess whether the proposed elines?	d pro	ject has a negative effect, per TWDB Yes ✓ No □
	the project recommended by the RFPG to be studied in order for efit cost ratio or the number of structures the project removes from		
Rela	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFP	G Recommended		





☐ Flood preparedness studies

Risk Area 6 Trib 2 bypass & detention at Eagle Pass High School fields

FME ID: 151000094

FME Description

Study includes bypassing flow from Golfcrest Drive to the detention pond with 1-6'x4', RCB Modifying outfall structure from 2-5'x3' RCB to 1-5'x3' RCB, and Lowering existing baseball field by 3 ft to provide an additional 30 ac-ft of storage.

✓ Alternative Analysis

Study Type

- ☐ Flood risk modeling/mapping✓ Flood mitigation study
- Study Area

City/ Cities Eagle Pass

County/ Counties Maverick

HUC 8 13080001,

13080002

HUC 12 130800020703,

130800020702

Study Area (sq. mi.) 0.10

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

Critical Facilities Impacted

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Yes □ No □

Notes:

Study Costs

Total Cost: \$143,550 Study Sponsor: City of Eagle Pass
Estimated year to start: Entity with Oversight
Time to complete? Included in a Hazard Mitigation
Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

City of Eagle Pass
City of Eagle Pass
(Potential) Source of Funding
FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓

Feasibility Assessments	<u> </u>		
	MPGLASSDR		WEDGEFFELD DR
BO E	EHNIERAVE		HANESON
A CONTRACTOR OF THE PARTY OF TH	1,670 LF floo	GOLFEREST DR od wall addition	CHANA
ar ckdeVAVE	Proposed 6	 	
ST JEAKEZ SI		NIW.	
HDAIGO ST	ASIAN PROGRAMMENT OF WITH	roposed Detention Improith Outfall Modification	ovements
Eagle Pass Creek Tributary 2	N. COMMAN		Eagle Pass
SECOND ST Z	10 7 100		High School

Agricultural Land impacted Yes □ No □



Yes □ No ✓

FME

Flood Mitigation Evaluations
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362			
Yes	✓ No□		
	s the project missing sufficient data to assess whether the propellines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rela	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
✓	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFP	G Recommended		





Risk Area 8 Tributary 2 channel widening near Alexander Drive

FME ID: 151000095

FME Description

Study includes constructing a 3' deep trapezoidal channel with a 76' bottom width with 4:1 side slopes from Graves Elementary School to the confluence of existing channels and constructing a 4' deep trapezoidal channel with a 11' bottom width with 4:1 side slopes from confluence of existing channels to existing culvert at Kelso Drive.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study
- ✓ Alternative Analysis

☐ Feasibility Assessments

 $\hfill \square$ Flood preparedness studies

Study Area

City/ Cities Eagle Pass

County/ Counties Maverick

HUC 8 13080001,

13080002

HUC 12 130800020703,

130800020702

Study Area (sq. mi.) 0.04



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?

Population at Risk

Roadways flooded

Yes ✓ No □

Wiles inundated

Yes □ No □

Notes:

Frequency of flooding:

of structures inundated

Miles inundated?

Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: 12,045 Study Sponsor: City of Eagle Pass
Estimated year to start: Entity with Oversight
Time to complete? Included in a Hazard Mitigation
Action Plan or other plan?
Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

City of Eagle Pass
City of Eagle Pass
Ves ∨ No □

(Potential) Source of Funding
FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

	_		_
Yes		Nο	✓

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

gui	dance for Regional Flood Planning or the prov	ISIO	ns of little 31 of TAQC Chapters 361 and
362	2.		
Yes	√ No □		
	s the project missing sufficient data to assess whether the prop delines?	osec	I project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Flood Management Evaluations Fact Sheet

FME ID: **151000096**

Maverick County Master Drainage Study

FME Description

Develop Flood risk ma	ps for the o	county o	f Maver	ick and develop CIP	
Study Type ✓ Flood risk modeling ✓ Flood mitigation st				✓ Alternative Analysis ☐ Feasibility Assessments	☐ Flood preparedness studies
Study Area City/ Cities County/ Counties HUC 8	Maverick 13080001 13080002	L ,			Insert snip of Location Map here
HUC 12 Study Area (sq. mi.)	768.49	-			
Emergency Ne Yes ✓ No □	ed				
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:		Yes ✓ Yes □ Yes □	No 🗆	Frequency: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?	t:	\$25 Yes 🗆	50,000 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Yes □ No ✓

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes ✓ No 🗆



Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Flood Management Evaluations

FME ID: 151000097

Fact Sheet

Starr County Master Drainage Study

FME Description

Yes ✓ No 🗆

Develop Flood risk maps for the county of Starr and develop CIP

Study Type					
✓ Flood risk modeling✓ Flood mitigation st				Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies
Study Area					
City/ Cities					Insert snip of Location Map here
County/ Counties	Starr				
HUC 8	1211020	7,			
	12110208	3			
HUC 12					
Study Area (sq. mi.)	1232.38				
Emergency Ne Yes ✓ No □	ed				
Known Flood R	Risk				
History of Flooding?		Yes ✓	No □	Frequency:	
Population at Risk Roadways flooded		Yes □	No □	# of structures inundated Miles inundated?	
Critical Facilities Impa Notes:	cted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost: Estimated year to star	rt:	\$25	50,000	Study Sponsor: Entity with Oversight	
Time to complete? Funding Dedicated?		Yes □		Included in a CIP or other plan? (Potential) Source of Funding	Yes □ No ✓



Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □				
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov						
Re	lated Goals						
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region				
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list				
✓	·						
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects				
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger				
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure				
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association				
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement				
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain				





Flood Management Evaluations Fact Sheet

FME ID: 151000098

Starr County Drainage District Master Drainage Study

	FME	Descri	ptio	n
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Develop Flood risk ma	ps for the	Starr Cou	ınty Dra	inage District and develop CIP	
Study Type ✓ Flood risk modeling ✓ Flood mitigation st				Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies
Study Area City/ Cities					Insert snip of Location Map here
County/ Counties	Starr				
HUC 8	12110207				
HUC 12	12110208	3			
Study Area (sq. mi.)	1232.34				
Emergency Need Yes ✓ No 🗆					
Known Flood Risl History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:		Yes ✓ Yes □ Yes □	No 🗆	Frequency: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?	t:	\$25 Yes 🗆	50,000 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Yes □ No ✓
Study identified a	as a gap	by Re	gion 1	5 Regional Flood Planning G	Group (RFPG)



Flood Management Evaluations Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

362			
Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rela	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
√	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFP	G Recommended		

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Flood Management Evaluations Fact Sheet

FME ID: 151000099

La Grulla Master Drainage Study

FME Description

Develop Flood risk ma	ips for the city of l	a Grulla	and develop CIP	
Study Type ✓ Flood risk modeling ✓ Flood mitigation st			✓ Alternative Analysis ☐ Feasibility Assessments	☐ Flood preparedness studies
Study Area City/ Cities County/ Counties HUC 8	La Grulla Starr 12110207, 12110208			Insert snip of Location Map here
HUC 12 Study Area (sq. mi.)	0.94			
Emergency New Yes ✓ No □	ed			
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:	Yes ✓ Yes □	No 🗆 No 🗆	Frequency: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?	t:	250,000 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Yes □ No ✓

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes ✓ No 🗆



Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □				
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov						
Re	lated Goals						
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region				
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list				
✓	·						
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects				
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger				
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure				
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association				
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement				
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain				





Flood Management Evaluations Fact Sheet

FME ID: **151000100**

Roma Master Drainage Study

FME Description

Develop Flood risk ma	ps for the cit	y of Ro	oma and	develop CIP	
Study Type ✓ Flood risk modeling ✓ Flood mitigation st				Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies
Study Area City/ Cities County/ Counties HUC 8	Roma Starr 12110207, 12110208				Insert snip of Location Map here
HUC 12 Study Area (sq. mi.)	5.98				
Emergency Ne Yes ✓ No □	ed				
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:	Y	res ✓ res □ res □	No 🗆	Frequency: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?			0,000 No √	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Yes □ No ✓

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes ✓ No 🗆



Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □				
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov						
Re	lated Goals						
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region				
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list				
✓	·						
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects				
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger				
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure				
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association				
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement				
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain				





Flood Management Evaluations Fact Sheet

FME ID: **151000101**

Escobares Master Drainage Study

FME Description

Develop Flood risk ma	ps for the city of Es	cobare	s and develop CIP	
Study Type ✓ Flood risk modeling ✓ Flood mitigation st			✓ Alternative Analysis ☐ Feasibility Assessments	☐ Flood preparedness studies
Study Area City/ Cities County/ Counties HUC 8	Escobares Starr 12110207, 12110208			Insert snip of Location Map here
HUC 12 Study Area (sq. mi.)	2.73			
Emergency Ne Yes ✓ No □	ed			
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:	Yes ✓ Yes □	No 🗆	Frequency: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?		50,000 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Yes □ No ✓

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes ✓ No 🗆



Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □				
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov						
Re	lated Goals						
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region				
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list				
✓	·						
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects				
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger				
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure				
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association				
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement				
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain				





Flood Management Evaluations Fact Sheet

FME ID: **151000102**

Rio Grande City Master Drainage Study

FME Description Develop Flood risk ma		o Grande	City and develop CIP	
Study Type ✓ Flood risk modeling ✓ Flood mitigation st			Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies
Study Area City/ Cities County/ Counties HUC 8	Rio Grande City Starr 12110207, 12110208			Insert snip of Location Map here
HUC 12 Study Area (sq. mi.)	11.38			
Emergency Ne Yes ✓ No 🗆	ed			
Known Flood R		N	Francisco	
History of Flooding? Population at Risk	Yes ✓	NO 🗆	Frequency: # of structures inundated	
Roadways flooded	Yes 🗆	No 🗆	Miles inundated?	
Critical Facilities Impa Notes:	cted Yes 🗆	No 🗆	Agricultural Land impacted	Yes □ No □
Study Costs				
Total Cost:	\$25	0,000	Study Sponsor:	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓

Entity with Oversight

Yes □ No ✓

Included in a CIP or other plan?

(Potential) Source of Funding

Yes ✓ No 🗆

Estimated year to start:

Time to complete?

Funding Dedicated?



Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Flood Management Evaluations Fact Sheet

Rgc Public Works, Escobares City, And Starr **Public Works Roadway Improvements**

FME ID: 151000103

FME Description

Improve Roadways, By Widening And Raising, And Create Drainage Culverts Or Bridges. (Morenos Creek And Garceno Creek) (Kelsey Creek, Rio Grande City)

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	/ I\	/ Typ

Study Type			
✓ Flood risk modeling✓ Flood mitigation st		✓ Alternative Analysis□ Feasibility Assessments	☐ Flood preparedness studies
Study Area			
City/ Cities			
County/ Counties	STARR		
HUC 8	12110207,		
	13090001		
HUC 12	121102070100,		
	130900011301,		
	130900011302,		
	130900011304,		
	130900011202,		
	130900011203, 13	0900011204, 130900011401,	
	130900011402, 13	0800031007, 130800031011,	
	130900011102, 13	0900011103, 130900011110,	
	130900011403, 13	0900011501, 130900011502,	
	130900011601, 13	0900011603, 130900011604,	
	130900011605, 13	0900011606, 130900011607,	
	130900011701, 13	0900011702, 130900011703,	
	130900011704, 13	0900011705, 130900011706,	
	130900011107, 13	0900011109, 130900011112	



Increase the coverage of available flood hazard data by

address flooding hazards

completing studies with identified construction projects to



Flood Management Evaluations Fact Sheet

Emergency Need				
Yes ✓ No 🗆				
Known Flood Risk				
History of Flooding?	Yes ✓ No 🗆	Frequency: # of structures inundated		
Population at Risk Roadways flooded	Yes ✓ No 🗆	Miles inundated?		
Critical Facilities Impacted Notes:	Yes □ No □	Agricultural Land impacted	Yes □ No □	
Study Costs				
Total Cost:	\$528,000	Study Sponsor:	Starr County	
Estimated year to start:		Entity with Oversight	Starr County	
Time to complete? Funding Dedicated?	Yes □ No ✓	Included in a CIP or other plan? (Potential) Source of Funding	Yes □ No □ TDA/Local	
	103 🗆 110	(, , , , , , , , , , , , , , , , , , ,		
Study identified as a Yes □ No ✓	a gap by Regio	n 15 Regional Flood Pla	anning Group (RF	PG)
Study identified bed	ause project o	could not be included a	s an Flood Mitiga	ation
Project (FMP) in the	Region 15 Re	gional Flood Plan beca	use it did meet tl	ne
minimum requirem	ents, per TWD	B guidance for Regiona	al Flood Planning	or the
provisions of Title 3	1 of TAOC Cha	opters 361 and 362.		
Yes ✓ No 🗆		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Was the project missing suffic guidelines?	ient data to assess wh	ether the proposed project has a ne	egative effect, per TWDB	Yes ✓ No
		rudied in order for it to provide mor project removes from the 100-year		Yes ✓ No
Related Goals				
✓ Increase community acce evacuation routes, during		-	of entities that adopt highe	er than NFIP-
Reduce the # of newly co facilities within the existing	nstructed vulnerable o	critical 🗆 Develop and m	aintain an operational stor	mwater asset
☐ Increase the # of commu	nities participating in t	he National \Box Increase the # \circ	of flood gauges (rainfall/st	ream) in the
Flood Insurance Program Decrease the average age		region Ince Rate Increase the # 0	of entities that have multi-	vear drainage
Maps used to define SFH		CIP list		, - 2. 2. 2. 1. 1000

Increase the # of entities that integrate National Weather

Service and USGS Texas Water Science Center (TXWSC)

flood warning system information into their local

capabilities to disseminate warnings



Flood Management Evaluations

Fact Sheet

Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





FME ID: 151000104

City of Del Rio

FME Description Update flood risk map		Rio and CIP	using Atlas 14		
Study Type ☐ Flood risk modeling ☐ Flood mitigation stu			ternative Analysis asibility Assessments	☐ Flood preparedness studies✓ Watershed Planning	
Study Area City/ Cities	City of Del Rio				
County/ Counties	Val Verde				
HUC 8					
HUC 12					
Study Area (sq. mi.)	15.14982319				
Emergency Nev	ed				
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:	Yes ✓ Yes ✓	No □ No □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □	
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?	t: Yes □		Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Del Rio City of Del Rio Yes ✓ No □	
Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)					



Yes ✓ No 🗆

Yes ✓ No 🗆

FME

Flood Mitigation Evaluations
Fact Sheet

Wa	delines? is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	lated Goals	
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical	Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program	management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Flood Mitigation Evaluations

FME ID: 151000105

Fact Sheet

City of Del Rio Project 1

Yes □ No ✓

FME Description Calaveras Creek Railroad Avenue	e Road/Culvert Imp	provement	
Study Type □ Flood risk modeling/mapping □ Flood mitigation study		Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Project Planning
Study Area City/ Cities City of D	el Rio		
County/ Counties Val Verd	e		
HUC 8			
HUC 12			
Study Area (sq. mi.) 0.023648	3145		
Emergency Need Yes ✓ No□			
Known Flood Risk			
History of Flooding? Population at Risk	Yes ✓ No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes □ No □	Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs			
Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$33,000.00 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Del Rio City of Del Rio Yes ✓ No □

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





FME ID: 151000106

City of Del Rio Project 10

FME Description				
Study Type □ Flood risk modeling □ Flood mitigation stu			ative Analysis ity Assessments	☐ Flood preparedness studies✓ Project Planning
Study Area City/ Cities	City of Del Rio			
County/ Counties	Val Verde			
HUC 8				
HUC 12				
Study Area (sq. mi.)	0.800448358			
Emergency Never Yes ✓ No □	ed			
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:	Yes ✓ Yes ✓	No □ No □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?			Study Sponsor: Entity with Oversight luded in a CIP or other plan? Potential) Source of Funding	City of Del Rio City of Del Rio Yes ✓ No □
Study identifie	d as a gap by	Region 15	Regional Flood Pla	anning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





FME ID: 151000107

City of Del Rio Project 11

FME Description	Dn: Drive Road/Culvert Imp	rovement	
Study Type ☐ Flood risk modeling ☐ Flood mitigation stu		□ Alternative Analysis□ Feasibility Assessments	☐ Flood preparedness studies✓ Project Planning
Study Area City/ Cities County/ Counties	City of Del Rio Val Verde		
HUC 8	va. ve.ue		
Study Area (sq. mi.)	0.170092881		
Emergency Nev	ed		
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:	Yes ✓ No Yes ✓ No	# of structures inundated Miles inundated?	Yes □ No □
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?	2	.00 Study Sponsor: D23 Entity with Oversight D25 Included in a CIP or other plan? O ✓ (Potential) Source of Funding	City of Del Rio
Study identified	d as a gap by Re	egion 15 Regional Flood Pl	anning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations
Fact Sheet

Wa	delines? is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	lated Goals	
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical	Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program	management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Flood Mitigation Evaluations
Fact Sheet

FME ID: 151000108

City of Del Rio Project 12

Yes □ No ✓

FME Description		ad/Culvert Imp	provement	
Study Type ☐ Flood risk modeling ☐ Flood mitigation stu			Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Project Planning
Study Area City/ Cities County/ Counties	City of Del R	lio		
HUC 8				
Study Area (sq. mi.)	1.65248346	3		
Emergency Nev	ed			
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:	Ye Ye	es ✓ No □ es ✓ No □ es □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?	t:	\$33,003.00 2023 2025 Yes □ No ✓	Entity with Oversight Included in a CIP or other plan?	City of Del Rio City of Del Rio Yes ✓ No □
Study identified	d as a ga	p by Regi	on 15 Regional Flood Pla	anning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations
Fact Sheet

Wa	delines? is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	lated Goals	
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical	Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program	management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: 151000109

Fact Sheet

City of Del Rio Project 13

Funding Dedicated?

Yes □ No ✓

FME Description Cantu Branch Margaret Lane Road/Culvert Im	nprovement	
Study Type		
☐ Flood risk modeling/mapping☐ Flood mitigation study	☐ Alternative Analysis☐ Feasibility Assessments	☐ Flood preparedness studies✓ Project Planning
Study Area City/ Cities City of Del Rio		
County/ Counties Val Verde		
HUC 8		
HUC 12		
Study Area (sq. mi.) 0.006336553		
Emergency Need Yes ✓ No 🗆		
Known Flood Risk		
History of Flooding? Yes ✓ No Population at Risk Roadways flooded Yes ✓ No	# of structures inundated Miles inundated?	
Critical Facilities Impacted Yes No Notes:	Agricultural Land impacted	Yes No
Study Costs		
Total Cost: \$33,00	The state of the s	
•	2023 Entity with Oversight 2025 Included in a CIP or other plan?	City of Del Rio Yes ✓ No □

(Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

Wa	delines? s the project recommended by the RFPG to be studied in order		
a b	enefit cost ratio or the number of structures the project remov	es tro	om the 100-year floodplain?
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Flood Mitigation Evaluations Fact Sheet

FME ID: 151000110

City of Del Rio Project 14

Yes □ No ✓

FME Description Cantu Branch Amistac	ON I Blvd Road/Culvert Imp	provement		
Study Type □ Flood risk modeling □ Flood mitigation sto		Alternative AnalysisFeasibility Assessments		ilood preparedness studies Project Planning
Study Area City/ Cities	City of Del Rio			
County/ Counties	Val Verde			
HUC 8				
HUC 12				
Study Area (sq. mi.)	0.026565405			
Emergency Ne Yes ✓ No 🗆	ed			
Known Flood R	Risk			
History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:	Yes ✓ No	Frequency of the structures in the structures in the structures in the structure in the str	undated ndated?	□ No □
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?		05.00 Study 2023 Entity with C 2025 Included in a CIP or oth No ✓ (Potential) Source of	versight City er plan? Yes	of Del Rio of Del Rio ✓ No □

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





FME ID: 151000111

Fact Sheet

City of Del Rio Project 15

Yes □ No ✓

FME Descriptic Cantu Branch Kings W		ert Improvement		
Study Type □ Flood risk modeling □ Flood mitigation sto		☐ Alternative A		☐ Flood preparedness studies ✓ Project Planning
City/ Cities County/ Counties HUC 8 HUC 12 Study Area (sq. mi.)	City of Del Rio Val Verde 1.652483463			
Emergency Ne Yes ✓ No 🗆	ed			
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:	Yes ✓ N Yes ✓ N	# c	Frequency of flooding: of structures inundated Miles inundated? cultural Land impacted	Yes No
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?			Study Sponsor: Entity with Oversight in a CIP or other plan? tial) Source of Funding	City of Del Rio City of Del Rio Yes ✓ No □

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

Wa	delines? s the project recommended by the RFPG to be studied in order		
a b	enefit cost ratio or the number of structures the project remov	es tro	om the 100-year floodplain?
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: 151000112

Fact Sheet

City of Del Rio Project 16

Yes □ No ✓

FME Descriptic Cantu Branch Kings W		ert Improvement		
Study Type □ Flood risk modeling □ Flood mitigation stu		☐ Alternative☐ Feasibility A		☐ Flood preparedness studies ✓ Project Planning
City/ Cities County/ Counties HUC 8 HUC 12 Study Area (sq. mi.)	City of Del Rio Val Verde 1.652483463			
Emergency Ne Yes ✓ No 🗆	ed			
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:	Yes ✓ No	# o □	Frequency of flooding: of structures inundated Miles inundated? ricultural Land impacted	Yes No
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?	\$33,00 t: Yes 🗆	2023 2025 Include	Study Sponsor: Entity with Oversight d in a CIP or other plan? ntial) Source of Funding	City of Del Rio City of Del Rio Yes ✓ No □

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

Wa	delines? s the project recommended by the RFPG to be studied in order		
a b	enefit cost ratio or the number of structures the project remov	es tro	om the 100-year floodplain?
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Flood Mitigation Evaluations Fact Sheet

FME ID: 151000113

City of Del Rio Project 17

Yes □ No ✓

FME Description	ON - Site 2a Road/Culvert I	mprovement	
Study Type ☐ Flood risk modeling ☐ Flood mitigation stu		☐ Alternative Analysis☐ Feasibility Assessments	☐ Flood preparedness studies✓ Project Planning
Study Area City/ Cities	City of Del Rio		
County/ Counties HUC 8 HUC 12	Val Verde		
Study Area (sq. mi.)	0.007424456		
Emergency Neo	ed		
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impanotes:	Yes ✓ No I	# of structures inundated Miles inundated?	Yes □ No □
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?	20	.00 Study Sponsor: 223 Entity with Oversight 225 Included in a CIP or other plan? 25 (Potential) Source of Funding	City of Del Rio
Study identified	d as a gap by Re	gion 15 Regional Flood Pl	anning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

Wa	delines? s the project recommended by the RFPG to be studied in order		
a b	enefit cost ratio or the number of structures the project remov	es tro	om the 100-year floodplain?
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Flood Mitigation Evaluations
Fact Sheet

FME ID: 151000114

City of Del Rio Project 18

Yes □ No ✓

FME Description Cantu Branch Amistad - Site 2b Road/Culvert Improvement					
Study Type ☐ Flood risk modeling ☐ Flood mitigation stu		☐ Alternative Analysis☐ Feasibility Assessments	☐ Flood preparedness studies ✓ Project Planning		
Study Area City/ Cities County/ Counties HUC 8 HUC 12	City of Del Rio Val Verde				
Study Area (sq. mi.)	0.006116466				
Emergency Ne Yes ✓ No □	ed				
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:	Yes ✓ No	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No		
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?		09.00 Study Sponsor: 2023 Entity with Oversight 2025 Included in a CIP or other plan? No ✓ (Potential) Source of Funding	City of Del Rio City of Del Rio Yes ✓ No □		
Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)					



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

Wa	delines? s the project recommended by the RFPG to be studied in order		
a b	enefit cost ratio or the number of structures the project remov	es tro	om the 100-year floodplain?
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Flood Mitigation Evaluations Fact Sheet

FME ID: 151000115

City of Del Rio Project 19

Yes □ No ✓

FME Description Cantu Branch Kings Way/Amistad Blvd Storm sewer Improvement					
Study Type ☐ Flood risk modeling ☐ Flood mitigation stu				Alternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Project Planning
Study Area City/ Cities County/ Counties	City of De				
HUC 8 HUC 12					
Study Area (sq. mi.)	0.0176948	322			
Emergency Nev	ed				
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:		Yes ✓ N	No 🗆	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?	t:	\$33,0 Yes 🗆	010.00 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Del Rio City of Del Rio Yes ✓ No □
Study identifie	d as a g	ap by I	Regio	n 15 Regional Flood Pla	anning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

Wa	delines? s the project recommended by the RFPG to be studied in order		
a b	enefit cost ratio or the number of structures the project remov	es tro	om the 100-year floodplain?
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: 151000116

Fact Sheet

City of Del Rio Project 2

Yes □ No ✓

FME Description Calaveras Creek Plaza / W. Viesca St. Road/Culvert Improvement						
Study Type □ Flood risk modeling □ Flood mitigation stu				ulternative Analysis easibility Assessments	☐ Flood prepare ✓ Engineering Pr	
Study Area City/ Cities	Del Rio					
County/ Counties	Val Verd	e				
HUC 8						
HUC 12						
Study Area (sq. mi.)	1.00					
Emergency Ne Yes ✓ No□	ed					
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:		Yes ✓ No Yes ✓ No Yes □ No		Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □	
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?	rt:	2	8.00 023 025	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Del Rio City of Del Rio Yes ✓ No □	
Study identifie	d as a g	gap by Re	egio	n 15 Regional Flood Pla	anning Grou	p (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





FME ID: 151000117

Fact Sheet

City of Del Rio Project 3

FME Description Calaveras Creek Bowie Street Road/Culvert Improvement						
Study Type ☐ Flood risk modeling ☐ Flood mitigation str				Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning	
Study Area City/ Cities County/ Counties	Del Rio Val Verde					
HUC 8	vai veiue					
HUC 12						
Study Area (sq. mi.)	1.00					
Emergency Ne Yes ✓ No □	ed					
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:		Yes ✓ Yes ✓ Yes □	No 🗆	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □	
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?	t:	\$3 Yes	3,018.00 2023 2025 □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Del Rio City of Del Rio Yes ✓ No □	
Study identifie Yes □ No ✓	d as a g	gap by	y Regio	on 15 Regional Flood Pla	anning Group (RFPG)	



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





Flood Mitigation Evaluations Fact Sheet

FME ID: 151000118

City of Del Rio Project 4

FME Descriptio Calaveras Creek Vitela S		nel Dete	ntion			
Study Type ☐ Flood risk modeling ☐ Flood mitigation stu				Alternative Analysis Teasibility Assessments	☐ Flood prepared: ✓ Engineering Pro	
Study Area City/ Cities County/ Counties	Del Rio Val Verde	.				
HUC 8	vai veiud	=				
HUC 12						
Study Area (sq. mi.)	1.00					
Emergency Nee Yes ✓ No□ Known Flood R						
History of Flooding? Population at Risk Roadways flooded Critical Facilities Impac Notes:	cted	Yes ✓ Yes ✓ Yes □	No 🗆	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □	
Study Costs Total Cost: Estimated year to start Time to complete? Funding Dedicated?	t:		3,018.00 2023 2025 □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Del Rio City of Del Rio Yes ✓ No □	
						(:

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes	П	No	✓



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





FME ID: 151000119

Fact Sheet

City of Del Rio Project 5

Yes □ No ✓

FME Description San Felipe Creek RSWF A Re	egional Detention		
Study Type			
☐ Flood risk modeling/map☐ Flood mitigation study	pping	☐ Alternative Analysis☐ Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area			
City/ Cities Del	Rio		
County/ Counties Val	Verde		
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00)		
Emergency Need			
Yes ✓ No 🗆			
Known Flood Risk			
History of Flooding?	Yes ✓ No 🗆	Frequency of floodin # of structures inundat	
Population at Risk Roadways flooded	Yes ✓ No 🗆		
Critical Facilities Impacted Notes:	Yes □ No□	Agricultural Land impact	ed Yes 🗆 No 🗆
Study Costs			
Total Cost:	\$33,018.		
Estimated year to start: Time to complete?	20 20	,	
Funding Dedicated?	Yes □ No	· •	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





FME ID: 151000120

Fact Sheet

City of Del Rio Project 6

Yes □ No ✓

orey or ber mo	i roject o			
FME Description		etention		
Study Type ☐ Flood risk modeling ☐ Flood mitigation stu			Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area City/ Cities	Del Rio			
County/ Counties	Val Verde			
HUC 8				
HUC 12				
Study Area (sq. mi.)	1.00			
Emergency Ne Yes ✓ No □	ed			
Known Flood R	lisk			
History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:	Yes Yes	No □ No □ No □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?		\$33,018.00 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Del Rio City of Del Rio Yes ✓ No □
Study identifie	d as a gap	by Regio	on 15 Regional Flood Pla	anning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





FME ID: 151000121

Fact Sheet

City of Del Rio Project 7

Yes □ No ✓

FME Description San Felipe Creek Johns		Bridge Re	eplacemen	t	
		2.10.60 1.1	- p. a c c	•	
Study Type					
☐ Flood risk modeling☐ Flood mitigation stu				Alternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area					
City/ Cities	Del Rio				
County/ Counties	Val Verde	2			
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Ned	ed				
Known Flood R	isk				
History of Flooding?		Yes ✓	No \square	Frequency of flooding:	
Population at Risk Roadways flooded		Yes ✓	No 🗆	# of structures inundated Miles inundated?	
Critical Facilities Impac Notes:	cted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost:		\$33	3,018.00	Study Sponsor:	City of Del Rio
Estimated year to star Time to complete? Funding Dedicated?	t:	Yes 🗆	2023 2025 No ✓	Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Del Rio Yes ✓ No □

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





FME ID: 151000122

Fact Sheet

City of Del Rio Project 8

,				
FME Description San Felipe Creek Canal Street B	ridge Replac	cement		
Study Type Flood risk modeling/mapping	3		ernative Analysis	☐ Flood preparedness studies ✓ Engineering Project Planning
☐ Flood mitigation study		⊔ геа	sibility Assessments	Engineering Project Planning
Study Area City/ Cities Del Rio				
County/ Counties Val Vero	de			
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need Yes ✓ No 🗆				
Known Flood Risk				
History of Flooding? Population at Risk	Yes ✓ ſ	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded		No 🗆	Miles inundated?	
Critical Facilities Impacted Notes:	Yes □ 1	No 🗆	Agricultural Land impacted	Yes □ No □
Study Costs				
Total Cost:	\$33,0	018.00	Study Sponsor:	City of Del Rio
Estimated year to start:		2023	Entity with Oversight	City of Del Rio

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Included in a CIP or other plan? Yes ✓ No □

(Potential) Source of Funding

2025

Yes □ No 🗸

V	NI-	/
Yes	No	✓

Time to complete?

Funding Dedicated?



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





FME ID: 15100012Q3

Fact Sheet

City of Del Rio Project 9

Yes □ No ✓

FME Description			
San Felipe Creek Academy	Street Bridge Replacer	ment	
Study Type			
☐ Flood risk modeling/map	oning	Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study		Feasibility Assessments	✓ Engineering Project Planning
Study Area			
City/ Cities Del	Rio		
County/ Counties Val	Verde		
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00	0		
Emergency Need			
Yes ✓ No 🗆			
Known Flood Risk			
History of Flooding? Population at Risk	Yes ✓ No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted Notes:	Yes 🗆 No 🗆	Agricultural Land impacted	Yes □ No □
Study Costs			
Total Cost:	\$33,018.00	Study Sponsor:	City of Del Rio
Estimated year to start:	2023	, , , , , , , ,	
Time to complete?	2025		Yes ✓ No 🗆
FILIDATION DEVICATED S	Vac 🗆 Na 🗸	I POTENTIALI SOURCE OT FUNDING	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Page 1 of 2



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





Flood Management Evaluations Fact Sheet

FME ID: 151000124

Val Verde County Master Drainage Study

FME Description

Yes ✓ No 🗆

Develop Flood risk ma	ips for the (county o	f Val Ve	rde and develop CIP	
Study Type ✓ Flood risk modeling ✓ Flood mitigation st				Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies
Study Area City/ Cities					Insert snip of Location Map here
County/ Counties	Val Verde	•			
HUC 8	13080001	L			
HUC 12					
Study Area (sq. mi.)	349.71				
Emergency Ne Yes ✓ No □	ed				
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:		Yes ✓ Yes □ Yes □	No 🗆	Frequency: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?	t:	\$50 Yes 🗆	00,000 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Yes □ No ✓
Study identifie	d as a g	gap by	/ Reg	ion 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □			
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov					
Re	lated Goals					
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region			
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list			
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	the coverage of available flood hazard data by Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC)				
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects			
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger			
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure			
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website					
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement			
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain			





Flood Management Evaluations Fact Sheet

FME ID: **151000125**

Webb County Drainage District #1 Master Drainage Study

FME Description

Develop Flood risk maps for the Webb County Drainage District #1 and develop CIP								
Study Type ✓ Flood risk modeling/mapping ✓ Flood mitigation study			✓ Alternative Analysis□ Feasibility Assessments		☐ Flood preparedness studies			
Study Area City/ Cities County/ Counties	Webb				Insert snip of Location Map here			
HUC 8	13080002	,						
HUC 12	13080002	•						
Study Area (sq. mi.)	9.12							
Study Area (sq. 1111.)	3.12							
Emergency Ne Yes ✓ No □	ed							
Known Flood R	Risk							
History of Flooding?		Yes ✓	No 🗆	Frequency:				
Population at Risk Roadways flooded		Yes □	No □	# of structures inundated Miles inundated?				
Critical Facilities Impa Notes:	cted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes No			
Study Costs								
Total Cost: \$1,000 Estimated year to start:		00,000	Study Sponsor: Entity with Oversight					
Time to complete? Funding Dedicated?		Yes 🗆	No ✓	Included in a CIP or other plan? (Potential) Source of Funding	Yes □ No ✓			

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes ✓ No 🗆



Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Flood Management Evaluations

FME ID: 151000126

Fact Sheet

City of Laredo

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Н	IV/I	ΗI)es	cri	nt	ion
				01.1	۲	

Develop Flood risk ma	aps for the city of Lai	redo and develop CIP	
Study Type ✓ Flood risk modeling ✓ Flood mitigation st		✓ Alternative Analysis□ Feasibility Assessments	☐ Flood preparedness studies
Study Area			
City/ Cities	Laredo	Insert snip	of Location Map here
County/ Counties	Webb		
HUC 8	13080002		
HUC 12			
Study Area (sq. mi.)	53.45		
Emergency Ne Yes ✓ No □	ed		

Known Flood Risk

History of Flooding? Yes ✓ No 🗆 Frequency: Population at Risk # of structures inundated Roadways flooded Miles inundated? Yes 🗆 No 🗆 Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes

No Notes:

Study Costs

Total Cost: \$1,000,000 Study Sponsor: City of Laredo Estimated year to start: Entity with Oversight: City of Laredo Time to complete? Included in a CIP or other plan? Yes □ No ✓ **Funding Dedicated?** (Potential) Source of Funding Yes □ No ✓

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes ✓ No 🗆



Flood Management Evaluations
Fact Sheet

orc	ovisions of Title 31 of TAQC Chapters 36	1 aı	nd 362.
Yes	✓ No □		
	s the project missing sufficient data to assess whether the propdelines?	oseo	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the
	Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		region Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
	PG Recommended		
Yes	□ No ✓		





FME ID: **151000127**

Rio Bravo Master Drainage Study

- N 4				100	
⊢ I\/I	⊩	Desc	rii	nti	on
	_	D C 3 C	- 1 1	9 61	\circ

Yes ✓ No 🗆

Study Type ✓ Flood risk modeling			✓	Alternative Analysis	☐ Flood preparedness studies		
✓ Flood mitigation st	✓ Flood mitigation study			Feasibility Assessments			
Study Area							
City/ Cities	Rio Bravo	•			Insert snip of Location Map here		
County/ Counties	Webb						
HUC 8	13080002	2					
HUC 12							
Study Area (sq. mi.)	0.66						
Emergency New Yes ✓ No □	ed						
res ▼ No 🗆							
Known Flood R	isk						
History of Flooding?		Yes ✓	No 🗆	Frequency:			
Population at Risk Roadways flooded		Yes 🗆	No 🗆	# of structures inundated Miles inundated?			
Critical Facilities Impa Notes:	cted	Yes 🗆	No □	Agricultural Land impacted	Yes □ No □		
Study Costs							
Total Cost: Estimated year to star	t:	\$25	50,000	Study Sponsor: Entity with Oversight	W = N /		
Time to complete? Funding Dedicated?		Yes □		Included in a CIP or other plan? (Potential) Source of Funding	Yes □ No ✓		



Flood Management Evaluations
Fact Sheet

	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
Wa	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: **151000128**

El Cenizo Master Drainage Study

FME Description

Yes ✓ No 🗆

Develop Flood risk ma	Develop Flood risk maps for the city of El Cenizo and develop CIP								
Study Type ✓ Flood risk modeling ✓Flood mitigation stu		✓ Alternative Analysis□ Feasibility Assessments	☐ Flood preparedness studies						
Study Area City/ Cities County/ Counties	El Cenizo Webb	Insert snip of Lo	ocation Map here						
HUC 8	13080002								
HUC 12	1300001								
Study Area (sq. mi.)	0.53								
Emergency Ne Yes ✓ No □	ed								
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:	Yes ✓	No ☐ Frequency: # of structures inundated No ☐ Miles inundated? No ☐ Agricultural Land impacted	Yes □ No □						
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?		0,000 Study Sponsor: Entity with Oversight Included in a CIP or other plan? No ✓ (Potential) Source of Funding	Yes □ No ✓						
Study identifie	d as a gap by	Region 15 Regional Flood Pla	anning Group (RFPG)						



Yes □ No ✓

FME

Flood Management Evaluations
Fact Sheet

Yes	✓ No 🗆		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
□ □ □ □ □ · ✓ · □ □ □ □ □ □ □ □ □ □ □ □	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage CIP list Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
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	billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
₹FI	PG Recommended		





Flood Mitigation Evaluations

FME ID: 151000129

Fact Sheet

City of Laredo Project 4

FME Description Zacate Creek Flood Plain Study to improve the 1980 flood plain map for Zacate Creek.							
Study Type ☐ Flood risk modeling, ☐ Flood mitigation stu			ulternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning			
Study Area City/ Cities County/ Counties HUC 8 HUC 12 Study Area (sq. mi.)	Laredo Webb						
Emergency Nee Yes ✓ No □	ed						
Known Flood Ri History of Flooding? Population at Risk Roadways flooded Critical Facilities Impac Notes:		Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □			
Study Costs Total Cost: Estimated year to start Time to complete? Funding Dedicated?	::	\$250,000.00 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Laredo City of Laredo Yes ✓ No □			
Study identified Yes □ No ✓	d as a g	gap by Regio	n 15 Regional Flood Pla	anning Group (RFPG)			



Yes ✓ No 🗆

Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
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	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





Flood Management Evaluations

Fact Sheet

City of Laredo Project 6

FME ID: 151000130

FME Description

Vidaurri Avenue Roadway Drainage Improvements to prevent future drainage in the area. Street improvements from Scott Street to Jefferson Street.

Study Type

- ☐ Flood risk modeling/mapping
- ✓ Flood mitigation study

✓ Alternative Analysis

☐ Flood preparedness studies

Study Area

City/ Cities Laredo

County/ Counties Webb

> HUC 8 13080002

HUC 12 130800022405,

130800022610,

130800022611,

130800022612,

130800022801, 130800022802,

130800022804, 130800022805,

130800022809, 130800030208,

130800022806

Study Area (sq. mi.) 0.70



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency: No □ Population at Risk # of structures inundated Roadways flooded Miles inundated? No \square Yes ✓ Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$330,000 Study Sponsor: Laredo



Flood Management Evaluations Fact Sheet

Estimated year to start: Entity with Oversight Laredo

	to complete? ing Dedicated?	Yes □ No ✓		CIP or other plan? ource of Funding	Yes ✓ No □ N/A			
	y identified as a gap □ No ✓	by Region 15 Regi	onal Floo	d Planning G	iroup (RFPG)			
Stud	y identified because	project could not	be includ	ed as an Flo	od Mitigatior	າ Project (FMI	P) in
	Region 15 Regional F							
	ance for Regional Fl				•			
	affect for Regional Fr	ood Hallilling of the	2 PI O VISIO	iis or ricic s.	I OI TAQC CII	iapters 50	'I ai	Iu
362.	/ Na 🗆							
Yes 🕶	✓ No □							
Was t	the project missing sufficient d	ata to assess whether the pro	posed project	t has a negative eff	ect, per TWDB guid	lelines? Yes	s √	No □
cost r	the project recommended by to atio or the number of structure ted Goals				details, such as a be	nefit Ye	s √ ∣	No □
	ncrease community access rou	ites to critical facilities, evacu	uation 🗆	Increase the # of	entities that adopt	higher than NF	-IP-miı	nimum
r	routes, during and after a flood	ling event		standards				
	Reduce the # of newly construct within the existing and future 1		es 🗆	Develop and mai management pla	ntain an operationa	ıl stormwater a	isset	
	ncrease the # of communities nsurance Program		Flood 🗆		flood gauges (rainfa	all/stream) in t	he reg	ion
	Decrease the average age of FE used to define SFHAs	MA Flood Insurance Rate Ma	aps 🗆	Increase the # of	entities that have n	nulti-year drair	nage C	IP list
S	ncrease the coverage of availa studies with identified construi nazards			Service and USGS	entities that integra 5 Texas Water Scien nformation into the nings	ice Center (TXV	VSC) fl	ood
	ncrease participation in the re			Increase use of n	ature-based flood r		-	
	Provide regional detention that applications or as part of a floo			response program	ally coordinated wa m that can detect th f impending flood d	ne flood threat		
	ncrease acreage of publicly procise areas that is reused for a b		flood	Increase the amo	ount of publicly own or future regional sto	ned land in the		
□ I	ncrease outreach and education municipal floodplain managers	on activities, specifically targe	-	Increase the prof the # of them tha	ficiency of floodplain at are certified as Ce	n managers by ertified Floodpl	increa ain Ma	ising anagers
	available on the website Increase the use reverse 911, T	W radio social modia and			exas Floodplain Ma	-		
k	oillboards to communicate floc shelter locations		es, and	encouraging Reg	ation in the Commu ion 15 floodplain m cated drainage fees	anagement pro	ograms	s to
□ F	Reduce the # of structures that flooding events through prope	· · · · · · · · · · · · · · · · · · ·	ed	and FMPs; incorp	porate noncomplian ment in the future (ice penalties; a	nd wh	0
RFPG	G Recommended							
Yes 🗆	No✓							





FME ID: **151000131**

Webb County Master Drainage Study

FME Description Develop Flood risk maps for the county of Webb and develop CIP

Study Type		
✓ Flood risk modeling/mappi✓ Flood mitigation study	g ✓ Alternative Analysis ☐ Feasibility Assessments	☐ Flood preparedness studies
Study Area		
City/ Cities	Insert sn	ip of Location Map here
County/ Counties Webb		
HUC 8 130800)2	
HUC 12		
Study Area (sq. mi.) 1654.5		
Emergency Need		
Yes ✓ No□		

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency:		
Population at Risk		# of structures inundated		
Roadways flooded	Yes □ No □	Miles inundated?		
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes □ No □	
Notes:				
Study Costs				
Total Cost:	\$1,000,000	Study Sponsor:		
Estimated year to start:	, ,,	Entity with Oversight		
Time to complete?		Included in a CIP or other plan?	Yes □ No ✓	
Funding Dedicated?	Voc 🗆 No 🗸	(Potential) Source of Funding		

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

V۵c	✓	Nο	



Flood Management Evaluations
Fact Sheet

١٨/-			d project has a possible offect, pay TM/DD VV / N =
	is the project missing sufficient data to assess whether the prop delines?	ose	d project has a negative effect, per TWDB Yes ✓ No □
	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FACT Shee

Zapata County Master Drainage Study

FMF Description

Develop Flood risk maps for the county of Zapata and develop CIP							
Study Type ✓ Flood risk modeling/mapping ✓ Flood mitigation study	g		Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies			
Study Area City/ Cities County/ Counties Zapata			Insert snip of Lo	ocation Map here			
HUC 8							
HUC 12							
Study Area (sq. mi.) 150.03							
Emergency Need Yes ✓ No□							
Known Flood Risk History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes □	No 🗆 No 🗆	Frequency: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □			
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$250 Yes 🗆	0,000 No √	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Yes □ No ✓			
Study identified as a Yes ✓ No□	gap by	Regio	on 15 Regional Flood Pla	anning Group (RFPG)			



Flood Management Evaluations
Fact Sheet

orc	ovisions of Title 31 of TAQC Chapters 36	1 aı	nd 362.
Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		
Yes	□ No ✓		





FME ID: **151000133**

San Ygnacio MUD Master Drainage Study

FME Description

Yes ✓ No 🗆

Develop Flood risk maps for San Ygnacio MUD and develop CIP							
Study Type ✓ Flood risk modeling/mapping ✓ Flood mitigation study	g		Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies			
Study Area City/ Cities County/ Counties Zapata			Insert snip of Lo	ocation Map here			
HUC 8							
HUC 12							
Study Area (sq. mi.)							
Emergency Need Yes ✓ No□							
Known Flood Risk							
History of Flooding?	Yes ✓	No 🗆	Frequency:				
Population at Risk Roadways flooded	Yes □	No □	# of structures inundated Miles inundated?				
Critical Facilities Impacted Notes:	Yes 🗆	No □	Agricultural Land impacted	Yes □ No □			
Study Costs							
Total Cost: Estimated year to start: Time to complete?	\$25	0,000	Study Sponsor: Entity with Oversight Included in a CIP or other plan?	Yes □ No ✓			
Funding Dedicated?	Yes 🗆	No √	(Potential) Source of Funding	163 11 110 7			
Study identified as a	gap by	/ Regio	on 15 Regional Flood Pla	anning Group (RFPG)			



Flood Management Evaluations
Fact Sheet

	evisions of Title 31 of TAQC Chapters 36. \checkmark No \Box	I al	Tu 302.
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the
	Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		region Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction project: Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		Increase participation in the Community Rating System be encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
	PG Recommended □ No ✓		





☐ Flood preparedness studies

NM-111 FME ID: 151000134

FME Description

Replace existing structures with new material of the same structure to continue to provide conveyance.

☐ Alternative Analysis

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

Study Area

City/ Cities Edinburg

County/Counties Hidalgo

HUC 8

HUC 12

Study Area (sq. mi.) 0.50

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

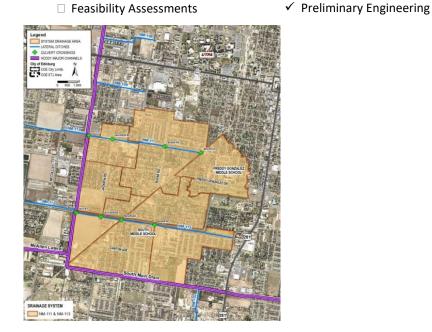
Notes:

Study Costs

Total Cost: \$718,171.47 Study Sponsor: City of Edinburg Estimated year to start: 2023 Entity with Oversight City of Edinburg Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓





Yes ✓ No 🗆

FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





FME ID: **151000135**

FME Description

ES-100

Correct out of bank ponding due to flooding by adjusting the low overbank areas and lower channel banks and fix culverts at Doolittle and Raul Longoria to prevent conveyance restriction during larger storm events. Allow for greater conveyance of water by replacing the outlet gate to the South Main Drain and replacing 10' X 10' RCB along Cesar Chavez and Dirt Road with new material. Increasing the size of RCB on Doolittle and Raul Longoria to 10' X 10' RCB.

Study Type

- $\ \square$ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8

HUC 12

Study Area (sq. mi.) 1.0

CAMANG STITEM COMMISSION OF THE STATE OF TH

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$18,681,939.51 Study Sponsor: City of Edinburg Estimated year to start: 2023 Entity with Oversight City of Edinburg Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No ☐ Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



RFPG Recommended

Yes ✓ No 🗆

FME

Flood Management Evaluations
Fact Sheet

	□ No ✓	Lai	10 302.
163	I NO V		
	s the project missing sufficient data to assess whether the prop delines?	osed	I project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remove		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Flood Management Evaluations

☐ Flood preparedness studies

Fact Sheet

ES-101 FME ID: 151000136

FME Description

Project includes storm water detention basins for drainage relief because of ROW restriction. The basin outfall is proposed to be connected to the ES-101 ditch as well as south into the South Main Drain upstream of US 281. No projects for this year.

☐ Alternative Analysis

Study Type

- $\ \square$ Flood risk modeling/mapping
- ☐ Flood mitigation study

Study Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC8

HUC 12

Study Area (sq. mi.) 1.0

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □

Population at Risk

Roadways flooded Yes ✓ No □

Critical Facilities Impacted Yes □ No □

Frequency:
of structures inundated
Miles inundated?

Agricultural Land impacted Yes
No

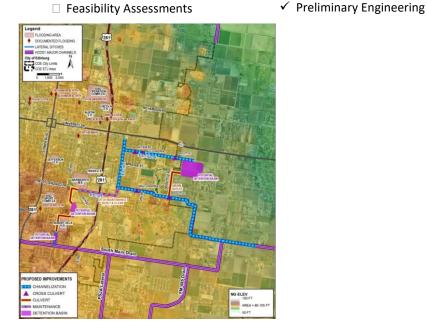
Study Costs

Notes:

Total Cost: \$ 3,324,410.00 Study Sponsor: City of Edinburg Estimated year to start: 2023 Entity with Oversight City of Edinburg Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓





Yes ✓ No 🗆

FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oosed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





SM-102 FME ID: 151000137

FME Description

Increase conveyance ease through Wisconsin and Access Road by regrading ditches. The system will continue to be extended south and will consist of a 10 foot bottom trapezoidal, earthen section with 3:1 side slopes and an approximate depth of 8 feet. Improvements currently process is acquiring a property to be used as a detention pond. Include in plan.

Study Type

- $\hfill \square$ Flood risk modeling/mapping
- $\ \square$ Flood mitigation study

- ☐ Alternative Analysis☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC8

HUC 12

Study Area (sq. mi.) 1.0

DEANAGE SYSTEM DIAMAGE SYSTEM

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$ 1,549,605.68	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



RFPG Recommended

Yes ✓ No 🗆

FME

Flood Management Evaluations
Fact Sheet

	□ No ✓	_	10 0021
	s the project missing sufficient data to assess whether the prop delines?	osec	I project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remove		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





☐ Flood preparedness studies✓ Preliminary Engineering

SM-103 FME ID: 151000138

FME Description

Increase collection areas for the system along Closner Blvd.

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

Study Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8

HUC 12

Study Area (sq. mi.) 1.0

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost:	\$ 906,437.50	Study Sponsor:	City of	Edinburg
Estimated year to start:	2023	Entity with Oversight	City of	Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓	No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding		

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓

Legend (0)	
SYSTEM DRAINAGE AREA	2.0
LATERAL DITCHES	24
CULVERT CROSSINGS	
City of Edinburg N	9
COE CA; Limb	1
COCETI Ann	
0 1,000 2,000	10
一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	1
SECOND SECOND	53
	N.
MOTH SOUTH COMPLY	
McAllen Lateral	44
INCERTIVE A DI	20
	1
South Main Orain	Link SCO
SM-101 SM-103	5
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ann ann	4
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Series Se	111
	111
	麗
	POST I
	100
DRAWAGE SYSTEM	265
DRAINAGE SYSTEM SM-101, SM-102, 4 5M-103	

☐ Alternative Analysis

☐ Feasibility Assessments



Yes ✓ No 🗆

FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





☐ Flood preparedness studies

SM-104 FME ID: 151000139

FME Description

Land acquisition and a drainage ditch system to convey the runoff from the existing development and adjacent future developable areas.

□ Alternative Analysis

Study Type

- $\ \square$ Flood risk modeling/mapping
- ☐ Flood mitigation study

Study Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC8

HUC 12

Study Area (sq. mi.) 1.0

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$ 1,625,505.96 Study Sponsor: City of Edinburg Estimated year to start: 2023 Entity with Oversight City of Edinburg Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓

Lagend WATURAL GROUND PROPILE OCT WEST AND THE STATE OF	☐ Feasibility Assessments	✓	Preliminary Engineering
- 50 FT	HATURIAL GROUND PROPILE SOUTH AND		



RFPG Recommended

Yes ✓ No 🗆

FME

Flood Management Evaluations Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	osec	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain	Ш	management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





MC-100 FME ID: 151000140

FME Description

New channel improvements and alignment to collect the system area runoff and convey it to the Monte Cristo Drain. Included In plan

Study Type

- ☐ Flood risk modeling/mapping
- $\ \square$ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

No □

Study Area

City/ Cities Edinburg

County/Counties Hidalgo

HUC 8

HUC 12

Study Area (sq. mi.) 1.0

Legisla Chicago State District Chicago State Distric

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No \square	Frequency:	
Population at Risk			# of structures inundated	
Roadways flooded	Yes ✓	No \square	Miles inundated?	
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆

Study Costs

Notes:

Total Cost:	\$ 2,885,082.76	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



RFPG Recommended

Yes ✓ No 🗆

FME

Flood Management Evaluations
Fact Sheet

	□ No ✓	_	10 0021
	s the project missing sufficient data to assess whether the prop delines?	osec	I project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remove		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: **151000141**

Drain C-Right Culvert Improvements

E 6 /					
ΗV	lŀ.	IJ	escri	lot.	ıon

This alternative proposes to add 3 - 72" pipes to the 54" pipe existing along Paso Real Highway (formerly Helen Moore Road) from south of the railroad to north of Business 77. Rather than use multiple pipes a single 10'x10' box culvert is proposed with 3 - 72" CMPs under the railroad track.

_		☐ Flood preparedness studies✓ Preliminary Engineering
on County		
Yes ✓ No 🗆	Frequency:	
Yes ✓ No 🗆	# of structures inundated?	
Yes 🗆 No 🗆	Agricultural Land impacted	Yes □ No □
\$2,649,000.00 2023 2025 Yes \(\text{No }	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Cameron County Drainage District No. 3 Cameron County Drainage District No. 3 Yes ✓ No □
	Yes ✓ No □ Yes ✓ No □ Yes □ No □ \$2,649,000.00 2023 2025	Feasibility Assessments On County Yes ✓ No □ Frequency: # of structures inundated Yes ✓ No □ Miles inundated? Yes □ No □ Agricultural Land impacted \$2,649,000.00 Study Sponsor: 2023 Entity with Oversight 2025 Included in a CIP or other plan?

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes	Nο	✓
162	INO	•



Yes □ No ✓

FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓				
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □		
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov				
Rel	ated Goals				
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards		
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan		
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region		
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list		
√	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings		
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger		
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure		
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association		
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement		
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain		
RFF	PG Recommended				





FME ID: 151000142

Webb County Hwy 359 Colonias Drainage

FME Description

Study would identify areas of frequent flooding, hazardous risk of flooding, land acquisition for public light ents

	Develop	oing an	early w	o develop a mitigation plan to maker varning system to notify the local er events.	
Study Type					
☐ Flood risk modeling/mapping☐ Flood mitigation study				Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area					
City/ Cities					
County/ Counties \	Webb Co	unty			
HUC 8					
HUC 12					
Study Area (sq. mi.) 1	1.0				
Emergency Nee Yes ✓ No 🗆	d				
Known Flood Ris	sk				
History of Flooding? Population at Risk		Yes ✓	No 🗆	Frequency: # of structures inundated	
Roadways flooded Critical Facilities Impact Notes:	ed	Yes ✓ Yes □	No □ No □	Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost: \$ 100,0 Estimated year to start:		000.00 2023	Study Sponsor: Entity with Oversight	Webb County Webb County	
Time to complete?			2025	Included in a CIP or other plan?	Yes ✓ No □
Funding Dedicated?		Yes 🗆	No ✓	(Potential) Source of Funding	



Flood Management Evaluations
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Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓ Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362. Yes □ No ✓ Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB No 🗆 guidelines? Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as No 🗆 a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? **Related Goals** Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPminimum standards evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of flood gauges (rainfall/stream) in the Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage Maps used to define SFHAs Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and program provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance repeated flooding events through property buyouts penalties; and who regulate development in the future

conditions floodplain





RFPG Recommended

Yes ✓ No 🗆





Flood Management Evaluations

Fact Sheet

Webb County Tanquecitos Colonia LOMR

FME ID: **151000143**

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Yes □ No ✓

Develop a FEMA approved LOMR for the Tanquecitos Colonia in Webb County						
Study Type						
☐ Flood risk modeling☐ Flood mitigation sto		ng		Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Watershed Planning	
Study Area City/ Cities						
County/ Counties	Webb	County				
HUC 8						
HUC 12						
Study Area (sq. mi.)	1.0					
Emergency Ne Yes ✓ No □	ed					
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:		Yes ✓ Yes ✓ Yes □	No 🗆 No 🗆	Frequency: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No	
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?		\$ 150,0 Yes 🗆	00.00 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Webb County Webb County Yes ✓ No □	
Study identifie	d as a	a gap by	Regi	ion 15 Regional Flood Pla	anning Group (RFPG)	



FME

Flood Management Evaluations
Fact Sheet

res	S □ NO ¥		
	ns the project missing sufficient data to assess whether the prop delines?	oosed	I project has a negative effect, per TWDB Yes ✓ No □
	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the
	Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate	П	region Increase the # of entities that have multi-year drainage
	Maps used to define SFHAs		CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





FME ID: 151000144

Summers Regional Detention Pond and 100-year channel system

FME Description

Develop the City of Laredo Summer's Pond into a regional detention pond to improve stormwater management of existing development downstream and reduce perpetual maintenance costs for the Webb County Drainage District No.1. Additional improvements include an earthen channel designed for the 100-year storm event to convey runoff from proposed multiple developments within the Chacon Creek Tributrary 2A watershed. This project will include H & H and environmental studies and a CLOMR/LOMR request through FEMA to update flood risk maps accordingly.

Study Type □ Flood risk modeling/map □ Flood mitigation study		□ Alternative Analysis□ Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area City/ Cities			
County/ Counties Web	b County		
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.0			
Emergency Need Yes ✓ No □			
Known Flood Risk			
History of Flooding? Population at Risk Roadways flooded	Yes ✓ No □	Frequency: # of structures inundated Miles inundated?	
Critical Facilities Impacted Notes:	Yes □ No □	Agricultural Land impacted	Yes No
Study Costs			
Total Cost:	\$4,885,000.00	Study Sponsor:	Webb County Drainage District No.1
Estimated year to start: Time to complete?	2023 2025	Entity with Oversight Included in a CIP or other plan?	Webb County Yes ✓ No □



FME

Flood Management Evaluations Fact Sheet

Funding Dedicated?	Yes □ No ✓ (Potential) Sou	rce of Funding	ract silet
Study identified as Yes □ No ✓	s a gap by Region 15	5 Regiona	al Flood Planning Group (RFI	PG)
Project (FMP) in the minimum requirer provisions of Title Yes □ No ✓	ne Region 15 Region ments, per TWDB gr 31 of TAQC Chapte	nal Flood uidance f rs 361 ar		e or the
guidelines? Was the project recommen		l in order for it	to provide more project details, such as	Yes ✓ No □ Yes ✓ No □
evacuation routes, dur Reduce the # of newly facilities within the exis Increase the # of comn Flood Insurance Progra Decrease the average a Maps used to define SI Increase the coverage	age of FEMA Flood Insurance R FHAs of available flood hazard data h identified construction proje	I	Increase the # of entities that adopt higher minimum standards Develop and maintain an operational storm management plan Increase the # of flood gauges (rainfall/streegion Increase the # of entities that have multi-y CIP list Increase the # of entities that integrate Nat Service and USGS Texas Water Science Centlood warning system information into the capabilities to disseminate warnings	nwater asset eam) in the ear drainage tional Weather ter (TXWSC)
 Provide regional deten reuse applications or a program Increase acreage of pu 	in the regional flood planning pation that could be used for was part of a floodplain managen	ter ment critical	Increase use of nature-based flood risk red Develop a regionally coordinated warning a response program that can detect the flood provide timely warning of impending flood Increase the amount of publicly owned lan	and emergency d threat and danger d in the region
☐ Increase outreach and	reused for a beneficial public undersition activities, specifical odplain managers, hosted by Fonthe website	ly 🗆	that can be utilized for future regional stor infrastructure Increase the proficiency of floodplain manaincreasing the # of them that are certified a Floodplain Managers (CFM) with the Texas Management Association	agers by as Certified
billboards to communi routes, and shelter local Reduce the # of structures.	se 911, TV, radio, social media, cate flood warnings, evacuatio ations ures that have been subject to nts through property buyouts	on	Increase participation in the Community Ra encouraging Region 15 floodplain manager to incorporate dedicated drainage fees to i future FMEs and FMPs; incorporate nonco penalties; and who regulate development	ment programs mplement mpliance

conditions floodplain





RFPG Recommended

Yes ✓ No 🗆





Flood Management Evaluations

FME ID: 151000145

Fact Sheet

Lago Dam to Regional Pond Conversion

250 Daily to Hebiotian Forta Conversion

FME Description

Pond improvements will include lowering and expanidn the existing berm, installing an outlet structure with 48" RCP and concrete spillway, and extending existing conventional systems currently draining into the dam. An access road will also be constructed for maintenance access. Project to include H & H and environmental studies coordination with TCEQ, and a CLOMR/LOMR request through FEMA to update flood risk maps

Study Type ☐ Flood risk modeling/ ☐ Flood mitigation stud		☐ Alternative Analysis☐ Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area City/ Cities			
County/ Counties	Webb County		
HUC 8			
HUC 12			
Study Area (sq. mi.)	1.0		
Emergency Nee Yes ✓ No□	d		
Known Flood Ri	sk		
History of Flooding? Population at Risk Roadways flooded Critical Facilities Impact Notes:	Yes ✓ No ☐ Yes ✓ No ☐ ted Yes ☐ No ☐	# of structures inundated? Miles inundated?	Yes □ No □
Study Costs			
Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$858,000.00 2025 2025 Yes □ No •	Entity with Oversight Included in a CIP or other plan?	Webb County Drainage District No.1 Webb County Yes ✓ No □



completing studies with identified construction projects to

FME

Flood Management Evaluations
Fact Sheet

Service and USGS Texas Water Science Center (TXWSC)

Yes □ No ✓ Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362. Yes □ No ✓ Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB No 🗆 guidelines? Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as No 🗆 a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? **Related Goals** Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPminimum standards evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of flood gauges (rainfall/stream) in the Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage Maps used to define SFHAs Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and program provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance repeated flooding events through property buyouts penalties; and who regulate development in the future conditions floodplain





RFPG Recommended

Yes**√** No □



Yes □ No ✓



Flood Management Evaluations Fact Sheet

FME ID: 151000146

Los Presidentes Arterial Road Extension-Phase 1 and 2A

FME Description Box culvert structure with	hin the floo	odplain,	conventional drainage systems	s, and earthen channels
Study Type				
☐ Flood risk modeling/mappi ☐ Flood mitigation study	ing		Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area				
City/ Cities				
County/ Counties Webb	County			
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.0				
Emergency Need Yes ✓ No 🗆				
Known Flood Risk				
History of Flooding? Population at Risk	Yes ✓		Frequency: # of structures inundated	
Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ Yes □	_	Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs				
Total Cost: Estimated year to start: Time to complete?	\$1,092,0	00.00 2023 2025	Study Sponsor: Entity with Oversight Included in a CIP or other plan?	Webb County Drainage District No.1 Webb County Yes ✓ No □
Funding Dedicated?	Yes 🗆	No √	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





FME ID: 151000147

Concord Hills Extension and Drainage **Improvements**

FME Description

Construction of a new collector road extending from the intersection of Concord Hills Blvd. and Los Presidentes Avenue to the south towards its intersection with Wormser Rd. will benefit the residents of the City of Laredo, and Webb County by improving access for first time responders and overall traffic circulation. This project will incorporate drainage improvements including three creek crossings consisting of box culvert crossings and convetional drainage systems. Environmental and H.&. Histudies will be required

crossings and con-	velional drainage	systems. Environme	entai ano n & n s	tudies will be required.
Study Type				
☐ Flood risk modeling☐ Flood mitigation stu		☐ Alternative Anal	•	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area				
City/ Cities				
County/ Counties	Webb County			
HUC 8				
HUC 12				
Study Area (sq. mi.)	1.0			
Emergency Nee Yes ✓ No 🗆	ed			
Known Flood R	isk			
History of Flooding? Population at Risk	Yes ✓ N		Frequency:	
Roadways flooded		lo 🗆	Miles inundated?	
Critical Facilities Impac Notes:	cted Yes □ N	lo □ Agricult	ural Land impacted	Yes No
Study Costs				
Total Cost: Estimated year to star	\$1,522,000		Study Sponsor: ntity with Oversight	Webb County Drainage District No.1 Webb County
Time to complete?	2	025 Included in a	a CIP or other plan?	Yes ✓ No □
Funding Dedicated?	Yes 🗆 N	o ✓ (Potential) Source of Funding	Page 1
				rage 1



FME

Flood Management Evaluations Fact Sheet

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓ Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362. Yes □ No ✓ Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB No 🗆 guidelines? Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as Yes ✓ No 🗆 a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Related Goals Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPevacuation routes, during and after a flooding event minimum standards Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Increase the # of flood gauges (rainfall/stream) in the Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage Maps used to define SFHAs CIP list Increase the # of entities that integrate National Weather Increase the coverage of available flood hazard data by completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and provide timely warning of impending flood danger program Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater Increase the proficiency of floodplain managers by Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance repeated flooding events through property buyouts penalties; and who regulate development in the future

conditions floodplain





RFPG Recommended

Yes ✓ No 🗆





FME ID: **151000148**

Los Presidentes Pond and Channel **Improvements**

FME Description

Project to upgrade the exsiting drainage system by replacing existing concrete line channels to increase flound capacity through the neighborhood. This will allow flow into the existing detention pond faster and reduce ponding within city streets								
Study Type								
☐ Flood risk modeling/map ☐ Flood mitigation study	pping	☐ Alternative Analysis☐ Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning					
Study Area								
City/ Cities								
County/ Counties Wel	bb County							
HUC 8								
HUC 12								
Study Area (sq. mi.) 1.0								
Emergency Need Yes ✓ No □								
Known Flood Risk								
History of Flooding?	Yes ✓ No	o □ Freq # of structures inu	uency:					
Population at Risk Roadways flooded	Yes ✓ No	# of structures ind Miles inun						
Critical Facilities Impacted Notes:	Yes □ No	o Agricultural Land im	pacted Yes 🗆 No 🗆					
Study Costs								
Total Cost:	\$295,000		•					
Estimated year to start: Time to complete?		Entity with Ov Included in a CIP or othe	=					
Funding Dedicated?	Yes 🗆 No		•					



repeated flooding events through property buyouts

FME

Flood Management Evaluations
Fact Sheet

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓ Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362. Yes □ No ✓ Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB No 🗆 guidelines? Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as No 🗆 a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? **Related Goals** Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPminimum standards evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of flood gauges (rainfall/stream) in the Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage Maps used to define SFHAs Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and program provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance

penalties; and who regulate development in the future

conditions floodplain





RFPG Recommended

Yes ✓ No 🗆





FME ID: **151000149**

UISD/Garcia Pond Update

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Existing pond enhancements including dredging and pond outlet improvements aimed at resolving localized flood risk for Lago Del Valle Subdivision.

flood risk for Lago Del Valle Subdivision.						
Study Type						
☐ Flood risk modeling/mapping☐ Flood mitigation study		☐ Alternative Analysis☐ Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning			
Study Area City/ Cities						
County/ Counties	Webb County					
HUC 8						
HUC 12						
Study Area (sq. mi.)	1.0					
Emergency Ne Yes ✓ No □	ed					
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:	Yes ✓ No	# of structures inundated Miles inundated?	Yes □ No □			
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?		Entity with Oversight Included in a CIP or other plan?	Webb County Drainage District No.1 Webb County Yes ✓ No □			

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



FME

Flood Management Evaluations
Fact Sheet

	□ No ✓	I GI	14 302.
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		management plan Increase the # of flood gauges (rainfall/stream) in the region
□✓	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs Increase the coverage of available flood hazard data by		Increase the # of entities that have multi-year drainage CIP list Increase the # of entities that integrate National Weather
	completing studies with identified construction projects to address flooding hazards		Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





H&H Model and Flood Risk Map Update of Unstudied "A" Zones within WCDD

FME ID: 151000150

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H&H modeling and LOMR request of remaining 5,700 LF of unstudied "A" Zone along Chacon Creek Tributary 2 to be initiated at its downstream end at Lago Del Valle Dam. This project is also to include a short, 1,000 LF segment of unstudied "A" Zone along Tex-Mex Tributary.

Study Type				
☐ Flood risk modeling/mapping ☐ Flood mitigation study			Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area				
City/ Cities				
County/ Counties V	Vebb County			
HUC 8				
HUC 12				
Study Area (sq. mi.) 1	.0			
Emergency Need	d			
Known Flood Ris	k			
History of Flooding? Population at Risk	Yes ✓	No 🗆	Frequency: # of structures inundated	
Roadways flooded Critical Facilities Impacte Notes:	Yes ✓ ed Yes □	No □ No □	Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs				
Total Cost: Estimated year to start: Time to complete?	\$65,0	2023 2025	Study Sponsor: Entity with Oversight Included in a CIP or other plan?	Webb County Drainage District No.1 Webb County Yes ✓ No □
Funding Dedicated?	Yes □	No ✓	(Potential) Source of Funding	



repeated flooding events through property buyouts

FME

Flood Management Evaluations
Fact Sheet

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓ Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362. Yes □ No ✓ Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB No 🗆 guidelines? Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as No 🗆 a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? **Related Goals** Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPminimum standards evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of flood gauges (rainfall/stream) in the Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage Maps used to define SFHAs Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and program provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance

penalties; and who regulate development in the future

conditions floodplain





RFPG Recommended

Yes ✓ No 🗆





H&H Modeling and Localized Flood Mapping of Existing Creeks Outside of Regulatory Floodplain

FME ID: **151000151**

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Yes □ No ✓

H&H modeling and inundation mapping of existing creeks outside of the relatory floodplain identified by the National Hydroraphy Dataset within the Webb County Drainage Districti No. 1.

National Hydroraphy Dataset within the Webb County Drainage Districti No. 1.						
Study Type						
☐ Flood risk modeling/mapping ☐ Flood mitigation study			Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning		
Study Area City/ Cities						
County/ Counties	Webb County					
HUC 8						
HUC 12						
Study Area (sq. mi.)	1.0					
Emergency New Yes ✓ No □	ed					
Known Flood R	isk					
History of Flooding? Population at Risk	Yes ✓	No 🗆	Frequency: # of structures inundated			
Roadways flooded	Yes ✓	No 🗆	Miles inundated?			
Critical Facilities Impa Notes:	cted Yes 🗆	No 🗆	Agricultural Land impacted	Yes □ No □		
Study Costs						
Total Cost: Estimated year to star	\$50,0 +·	00.00 2023	Study Sponsor: Entity with Oversight	Webb County Drainage District No.1 Webb County		
Time to complete?	ι.	2025	Included in a CIP or other plan?	Yes ✓ No □		
Funding Dedicated?	Yes 🗆	No ✓	(Potential) Source of Funding			

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



RFPG Recommended

Yes ✓ No 🗆

FME

Flood Management Evaluations
Fact Sheet

	□ No ✓		14 5 5 2 1
	s the project missing sufficient data to assess whether the prop delines?	osed	l project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remove		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects. Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Flood Management Evaluations

Fact Sheet

ML02 Esperanza

FME Description

Upgrade and extend storm sewer. Channel Improvements along Esperanza Ditch. Crossing improvements and upsizing RCP from 24" to 48".

Study Type

ng

☐ Flood mitigation study

Alternative Analysis
Feasibility Assessments

☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC 8

HUC 12

Study Area (sq. mi.) 1.66



FME ID: **151000152**

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Study Costs

Notes:

Total Cost: \$4,268,039.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓

Page	1	of 2	



FME

Flood Management Evaluations Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





FME ID: **151000153**

ML03 Tulipan

FME Description

7410 feet of storm sewer upgrade.

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.78



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □

Population at Risk

Roadways flooded Yes ✓ No □

Critical Facilities Impacted Yes □ No □

Frequency:
of structures inundated
Miles inundated?
Agricultural Land impacted

Yes □ No □

Study Costs

Notes:

Total Cost: \$1,655,615.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \square Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





Flood Management Evaluations

Fact Sheet

ML04 Basham FME ID: 151000154

FME Description

910 feet of storm sewer upgrade. 2589 feet of storm sewer extension along with channel improvements and conversion of a pond drain to a 12ac-ft Detention Basin

Study Type

	Flood	risk	modeling/	mapping/
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☐ Flood mitigation study

 Alternative Ana 	lysis	
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☐ Feasibility Assessments

☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC 8

HUC 12

Study Area (sq. mi.) 0.60



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes 🗆 No 🗆
Notes:			

Study Costs

Total Cost:	\$835,298.00	Study Sponsor:	City of	Mission
Estimated year to start:	2023	Entity with Oversight	City of	Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓	No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding		

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





FME ID: 151000155

ML05a Leandro

FME Description

462 feet of storm sewer upgrades and an extension of 4381 of storm sewer. Buyout and Relocation program of 51 acres.

Study Type

☐ Flood mitigation study

Alternative Analysis
Feasibility Assessments

☐ Flood preparedness studies ✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties **Hidalgo County**

HUC8

HUC 12

Study Area (sq. mi.) 0.44



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No 🗆 Population at Risk Roadways flooded Yes ✓ No 🗆 Critical Facilities Impacted

Yes 🗆 No 🗆

	Frequency:
	# of structures inundated
	Miles inundated?
Yes □ No □	Agricultural Land impacted

Study Costs

Notes:

Total Cost:	\$1,221,540.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes 🗆	No ✓
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FME

Flood Management Evaluations Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	posed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





FME ID: **151000156**

ML05b Gabriel

FME Description

3834 feet of storm sewer upgrades and an extension of 2647 feet. Buyout and Relocation program of 62 acres.

☐ Alternative Analysis

Study Type

Flood	risk	modeling/	mapping

☐ Flood mitigation study ☐ Feasibility Assessments

☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC 8

HUC 12

Study Area (sq. mi.) 0.26



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No 🗆	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆	No 🗆
Notes:					

Study Costs

Total Cost:	\$1,454,575.00	Study Sponsor:	City of	Mission
Estimated year to start:	2023	Entity with Oversight	City of	Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓	No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding		

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No 🗸

Page	1	of 2	



FME

Flood Management Evaluations Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	posed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





FME ID: **151000157**

ML05c Trosper

FME Description

7151 feet of storm sewer upgrade and an extension of 3660 feet. Buyout and Relocation program of 27 acres.

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	Flood	risk	modeling/	mapping/
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 $\ \square$ Flood mitigation study

Π.	Alternative	Analysis	
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☐ Feasibility Assessments

☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC 8

HUC 12

Study Area (sq. mi.) 0.70



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$2,982,995.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \square Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



FME

Flood Management Evaluations Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	posed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





FME ID: **151000158**

ML05d Holland B

FME Description

2937 feet of storm sewer upgrade and an extension of storm sewer of 2491 feet.

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☐ Flood risk modeling/mapping	☐ Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.14

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No □	Frequency:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No □	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No □	Agricultural Land impacted	Yes 🗆	No
Notes:					

Study Costs

Total Cost:	\$1,175,175.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓





FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





FME ID: 151000159

ML05e Mayberry C

FME Description

17594 feet of storm sewer upgrade and an extension of storm sewer of 5096 feet.

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- □ Alternative Analysis ☐ Feasibility Assessments
- ☐ Flood preparedness studies
- ✓ Preliminary Engineering

Study Area

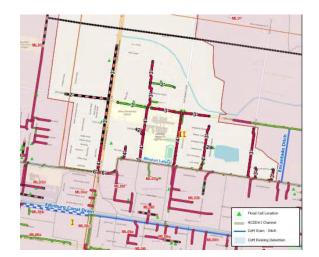
City/ Cities Mission

County/ Counties **Hidalgo County**

HUC8

HUC 12

Study Area (sq. mi.) 2.57



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? No 🗆 Frequency: Population at Risk # of structures inundated Miles inundated? Roadways flooded Yes ✓ No 🗆 Agricultural Land impacted Yes □ No □

Critical Facilities Impacted Yes 🗆 No 🗆

Notes:

Study Costs

Total Cost: \$4,902,950.00 Study Sponsor: City of Mission Estimated year to start: **Entity with Oversight** City of Mission 2023 Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No 🗆 Funding Dedicated? (Potential) Source of Funding Yes □ No ✓

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





FME ID: **151000160**

ML05f Miller

FME Description

1897 feet of storm sewer upgrade

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Yes □ No □

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.08



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Study Costs

Total Cost: \$669,750.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No □ Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	osec	I project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





FME ID: **151000161**

ML05g Alyssa

FME Description

978 feet of storm sewer upgrade.

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.05

Manufacturery Manufa

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes \checkmark No \square Population at Risk

Roadways flooded Yes ✓ No □ Critical Facilities Impacted Yes □ No □

Notes:

Frequency: # of structures inundated Miles inundated?

Agricultural Land impacted $\;\;$ Yes $\;\Box\;\;$ No $\Box\;\;$

Study Costs

Total Cost: \$248,280.00 Study Sponsor: City of Mission
Estimated year to start: 2023 Entity with Oversight
Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No □
Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



Page 1 of 2



FME

Flood Management Evaluations
Fact Sheet

ssing sufficient data to assess whether the prop	oosed	I project has a negative effect, per TWDB Yes ✓ No □
S		
		Increase the # of entities that adopt higher than NFIP-minimum standards
		Develop and maintain an operational stormwater asset management plan
		Increase the # of flood gauges (rainfall/stream) in the region
		Increase the # of entities that have multi-year drainage CIP list
dies with identified construction projects to		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
al detention that could be used for water		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
cipal floodplain managers, hosted by Region		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
ommunicate flood warnings, evacuation		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
f structures that have been subject to		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
	commended by the RFPG to be studied in order	nunity access routes to critical facilities, ates, during and after a flooding event of newly constructed vulnerable critical at the existing and future 100-YR floodplain of communities participating in the National e Program verage age of FEMA Flood Insurance Rate define SFHAs overage of available flood hazard data by dies with identified construction projects to ag hazards ipation in the regional flood planning process all detention that could be used for water ons or as part of a floodplain management ge of publicly protected open space in critical at that is reused for a beneficial public use ach and education activities, specifically cipal floodplain managers, hosted by Region vailable on the website se reverse 911, TV, radio, social media, and communicate flood warnings, evacuation elter locations of structures that have been subject to





FME ID: **151000162**

ML05h Mayberry B

FME Description

3323 feet of storm sewer upgrade and an extension of storm sewer of 513 feet

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☐ Flood risk modeling/mapping	Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.15

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆 No 🗆	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$1,625,044.00	,044.00 Study Sponsor: (
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No 🗸





FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





Flood Management Evaluations

Fact Sheet

ML05i Stewart B

FME ID: **151000163**

FME Description

5363 feet of storm sewer upgrade and an extension of storm sewer of 1617 feet

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☐ Flood risk modeling/mapping☐ Flood mitigation study

☐ Alternative Analysis☐ Feasibility Assessments

☐ Flood preparedness studies

✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.25



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No \square	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No □	Agricultural Land impacted	Yes 🗆	No □

Study Costs

Notes:

Total Cost:	\$1,551,195.00	Study Sponsor: C		Mission
Estimated year to start:	2023 Entity with Ov		City of I	Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓	No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding		

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





FME ID: **151000164**

ML06a Holland A

FME Description

10360 feet of storm sewer upgrade

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☐ Flood mitigation study

□ A	lternative	Ana	lysis
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☐ Feasibility Assessments

☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.94



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Study Costs

Notes:

Total Cost: \$2,168,575.00 Study Sponsor: City of Mission
Estimated year to start: 2023 Entity with Oversight
Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No □
Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





FME ID: **151000165**

ML06b & ML06c Stacie / Conway A

FME Description

1831 feet of storm sewer upgrade. Channel improvements of 2415 feet

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- ☐ Flood risk modeling/mapping☐ Flood mitigation study
- ☐ Alternative Analysis☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.28



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Study Costs

Notes:

Total Cost: \$539,371.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight City of Mission Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \square Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	posed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





FME ID: **151000166**

ML06d Conway B

FME Description

476 feet of storm sewer upgrade

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

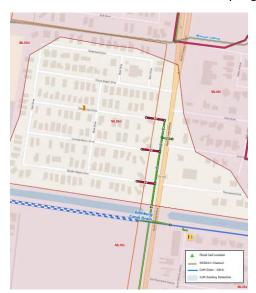
City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.07



Yes □ No □

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Study Costs

Total Cost: \$176,600.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \square Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





FME ID: **151000167**

ML06e Augusta

FME Description

1434 feet of storm sewer upgrade

Study Type

- $\hfill \square$ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Yes □ No □

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.04



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Study Costs

Total Cost: \$557,492.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No □ Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		



FME

Flood Management Evaluations
Fact Sheet

FME ID: **151000168**

ML06f Thornwood

FME Description

693 feet of storm sewer upgrade

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Yes □ No □

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.03



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Study Costs

Total Cost: \$317,950.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \square Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





FME ID: **151000169**

ML06g Mayberry A

FME Description

1599 feet of storm sewer upgrade and an extension of storm sewer of 616 feet

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☐ Flood risk modeling/mapping	Alternative Analysis	 Flood preparedness studie
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC 8

HUC 12

Study Area (sq. mi.) 0.06

Emergency Need

Yes ✓ No 🗆

Total Control Date Total

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$813 <i>,</i> 962.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No 🗸



FME

Flood Management Evaluations Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	posed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
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	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





FME ID: **151000170**

ML06h Woodland

FME Description

1715 feet of storm sewer upgrade

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Yes □ No □

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.08



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Study Costs

Total Cost: \$508,385.00 Study Sponsor: City of Mission
Estimated year to start: 2023 Entity with Oversight
Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No □
Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





Flood Management Evaluations

Fact Sheet

ML06i Bryan

FME ID: **151000171**

FME Description

6976 feet of storm sewer upgrade and an extension of storm sewer of 3234 feet

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- $\hfill \square$ Flood risk modeling/mapping
- $\ \square$ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.69



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$2,472,545.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \square Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Page	1	of	2
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FME

Flood Management Evaluations
Fact Sheet

res	S □ NO ¥		
	ns the project missing sufficient data to assess whether the prop delines?	oosed	I project has a negative effect, per TWDB Yes ✓ No □
	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the
	Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate	П	region Increase the # of entities that have multi-year drainage
	Maps used to define SFHAs		CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





FME ID: **151000172**

ML06j Orange

FME Description

526 feet of storm sewer upgrade

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- □ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies ✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties **Hidalgo County**

HUC8

HUC 12

Study Area (sq. mi.)



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? No 🗆 Population at Risk Roadways flooded Yes ✓ No 🗆

Critical Facilities Impacted

Yes □ No □ Notes:

Frequency: # of structures inundated Miles inundated?

Agricultural Land impacted Yes □ No □

Study Costs

Total Cost: \$146,120.00 Study Sponsor: City of Mission Estimated year to start: 2023 **Entity with Oversight** City of Mission Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No 🗆 Funding Dedicated? (Potential) Source of Funding Yes □ No ✓

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)





FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





FME ID: **151000173**

ML06k Stewart A

FME Description

4147 feet of storm sewer upgrades and an extension of storm sewer of 1175 feet. Construction of new detention basin on N. Steward Rd of 20 acre-ft.

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☐ Flo	ood risk	modeling	/mapping
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☐ Flood mitigation study

☐ Alternative Analysis☐ Feasibility Assessments

☐ Flood preparedness studies✓ Preliminary Engineering

No □

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC 8

HUC 12

Study Area (sq. mi.) 0.38



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency:	
Population at Risk			# of structures inundated	
Roadways flooded	Yes ✓	No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆
Notes:				

Study Costs

Total Cost:	\$2,322,862.00	Study Sponsor:	City of	Mission
Estimated year to start:	2023	Entity with Oversight	City of	Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓	No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding		

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Page	1	of	2
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FME

Flood Management Evaluations Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes	□ No ✓			
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □]
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov]
Rel	ated Goals			
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards	
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan	
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region	
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list	
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings	∍r
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction project Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger	
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the regio that can be utilized for future regional stormwater infrastructure	n
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association	
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System & encouraging Region 15 floodplain management program	
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain	
REE	PG Recommended			

RFPG Recommended

Yes ✓ No 🗆





Flood Management Evaluations

Fact Sheet

ML06l Sundrop

FME ID: **151000174**

FME Description

408 feet of storm sewer upgrade and an extension of storm sewer of 382 feet. New construction of a 20 acre-feet basin

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	Flood	risk	modeling/	mapping/
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☐ Flood mitigation study

	Alternative	Analysis
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☐ Feasibility Assessments

☐ Flood preparedness studies

✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC 8

HUC 12

Study Area (sq. mi.) 0.04



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No 🗆	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆	No 🗆
Notes:					

Study Costs

Total Cost:	\$328,830.00	Study Sponsor:	City of	Mission
Estimated year to start:	2023	Entity with Oversight	City of	Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓	No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding		

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes 🗆	No ✓
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FME

Flood Management Evaluations Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	posed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





FME ID: **151000175**

ML06m & ML06n Tulip/Glasscock

FME Description

11767 feet of storm sewer upgrade and an extension of storm sewer of 1880 feet.

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- $\ \ \Box \ \ \textbf{Flood risk modeling/mapping}$
- ☐ Flood mitigation study

- ☐ Alternative Analysis☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

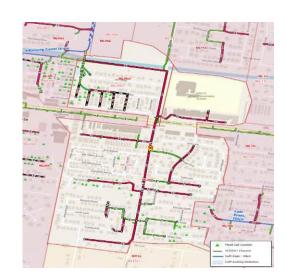
City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.36



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Study Costs

Notes:

Total Cost: \$4,089,283.00 Study Sponsor: City of Mission
Estimated year to start: 2023 Entity with Oversight
Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No □
Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	posed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





FME ID: 151000176

ML06o Solar

FME Description

2543 feet of storm sewer upgrade

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis ☐ Feasibility Assessments
- ☐ Flood preparedness studies ✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties **Hidalgo County**

HUC8

HUC 12

Study Area (sq. mi.) 0.10



Frequency:

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? No 🗆 Population at Risk # of structures inundated Roadways flooded Miles inundated? Yes ✓ No 🗆 Agricultural Land impacted Yes
No Critical Facilities Impacted Yes 🗆 No 🗆

Notes:

Study Costs

Total Cost: \$676,195.00 Study Sponsor: City of Mission Estimated year to start: 2023 **Entity with Oversight** City of Mission Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No 🗆 Funding Dedicated? (Potential) Source of Funding Yes □ No ✓

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Page	1	of 2	



FME

Flood Management Evaluations
Fact Sheet

ssing sufficient data to assess whether the prop	oosed	I project has a negative effect, per TWDB Yes ✓ No □
S		
		Increase the # of entities that adopt higher than NFIP-minimum standards
		Develop and maintain an operational stormwater asset management plan
		Increase the # of flood gauges (rainfall/stream) in the region
		Increase the # of entities that have multi-year drainage CIP list
dies with identified construction projects to		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
al detention that could be used for water		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
cipal floodplain managers, hosted by Region		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
ommunicate flood warnings, evacuation		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
f structures that have been subject to		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
	commended by the RFPG to be studied in order	nunity access routes to critical facilities, ates, during and after a flooding event of newly constructed vulnerable critical at the existing and future 100-YR floodplain of communities participating in the National e Program verage age of FEMA Flood Insurance Rate define SFHAs overage of available flood hazard data by dies with identified construction projects to ag hazards ipation in the regional flood planning process all detention that could be used for water ons or as part of a floodplain management ge of publicly protected open space in critical at that is reused for a beneficial public use ach and education activities, specifically cipal floodplain managers, hosted by Region vailable on the website se reverse 911, TV, radio, social media, and communicate flood warnings, evacuation elter locations of structures that have been subject to





FME ID: **151000177**

ML06p Lower ECD

FME Description

13720 feet of channel Improvements. New construction of detention basin on Glasscock Rd of 40 acre-feet.

Study Type

- $\hfill \square$ Flood risk modeling/mapping
- $\ \square$ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC 8

HUC 12

Study Area (sq. mi.) 0.05



Yes □ No □

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Study Costs

Total Cost: \$677,235.00 Study Sponsor: City of Mission
Estimated year to start: 2023 Entity with Oversight
Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No □
Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
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✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		



FME

Flood Management Evaluations
Fact Sheet

FME ID: **151000178**

ML08 Stonegate

FME Description

5641 storm sewer upgrade.

Study Type

- $\hfill \square$ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Yes □ No □

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 3.82



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Study Costs

Total Cost: \$1,431,639.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \square Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

ssing sufficient data to assess whether the prop	oosed	I project has a negative effect, per TWDB Yes ✓ No □
S		
		Increase the # of entities that adopt higher than NFIP-minimum standards
		Develop and maintain an operational stormwater asset management plan
		Increase the # of flood gauges (rainfall/stream) in the region
		Increase the # of entities that have multi-year drainage CIP list
dies with identified construction projects to		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
al detention that could be used for water		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
cipal floodplain managers, hosted by Region		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
ommunicate flood warnings, evacuation		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
f structures that have been subject to		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
	commended by the RFPG to be studied in order	nunity access routes to critical facilities, ates, during and after a flooding event of newly constructed vulnerable critical at the existing and future 100-YR floodplain of communities participating in the National e Program verage age of FEMA Flood Insurance Rate define SFHAs overage of available flood hazard data by dies with identified construction projects to ag hazards ipation in the regional flood planning process all detention that could be used for water ons or as part of a floodplain management ge of publicly protected open space in critical at that is reused for a beneficial public use ach and education activities, specifically cipal floodplain managers, hosted by Region vailable on the website se reverse 911, TV, radio, social media, and communicate flood warnings, evacuation elter locations of structures that have been subject to





FME ID: 151000179

ML10a Country Club

FME Description

1364 feet of storm sewer upgrade, includes 346 feet of upgrade to Trunk Line segments along Taylor Rd.

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.04



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$247,858.00 Study Sponsor: City of Mission
Estimated year to start: 2023 Entity with Oversight
Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No □
Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





Flood Management Evaluations

Fact Sheet

ML10b Sunset

FME Description

9173 feet of storm sewer upgrade, includes 1962 feet of upgrades to Trunk line segments along Taylor Rd. An extension of 1620 feet.

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- □ Alternative Analysis□ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

FME ID: 151000180

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC 8

HUC 12

Study Area (sq. mi.) 0.36



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Study Costs

Notes:

Total Cost: \$2,499,400.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No 🗸



FME

Flood Management Evaluations Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes	□ No ✓			
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □]
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov]
Rel	ated Goals			
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards	
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan	
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region	
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list	
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings	∍r
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction project Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger	
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the regio that can be utilized for future regional stormwater infrastructure	n
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association	
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System & encouraging Region 15 floodplain management program	
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain	
REE	PG Recommended			

RFPG Recommended

Yes ✓ No 🗆





FME ID: **151000181**

ML10c Griffin

FME Description

5481 feet of storm sewer upgrade, includes 1568 feet of upgrades to Trunk line segments along Taylor Rd.

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	Flood	risk	modeling/	mapping
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 $\ \square$ Flood mitigation study

 Alternative Ar 	nalysis
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☐ Feasibility Assessments

☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.27



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □

Population at Risk

Roadways flooded Yes ✓ No □

Critical Facilities Impacted Yes □ No □

Frequency:
of structures inundated
Miles inundated?

Agricultural Land impacted Yes
No

Study Costs

Notes:

Total Cost: \$1,174,453.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \square Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





Flood Management Evaluations

Fact Sheet

ML10d Driftwood

FME ID: **151000182**

FME Description

3150 feet of storm sewer upgrade, includes 2417 feet of upgrades to trunk line segments along Taylor Rd.

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- $\hfill \square$ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.10



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □

Population at Risk

Roadways flooded Yes ✓ No □

Critical Facilities Impacted

Yes □ No □

Frequency: # of structures inundated Miles inundated?

Agricultural Land impacted Yes

Yes □ No □

Study Costs

Notes:

Total Cost: \$1,260,970.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \square Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	posed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





FME ID: **151000183**

ML11a Sunrise

FME Description

1880 feet of storm sewer upgrade

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.14



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$571,095.00 Study Sponsor: City of Mission
Estimated year to start: 2023 Entity with Oversight
Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No □
Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

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	s the project missing sufficient data to assess whether the prop delines?	osec	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain		management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





Flood Management Evaluations

Fact Sheet

ML11b Shary B

FME Description

6249 feet of storm sewer upgrade, and 856 feet of storm sewer extension

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- $\hfill \square$ Flood risk modeling/mapping
- $\ \square$ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 3.5



FME ID: 151000184

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$1,270,835.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \square Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

res	S □ NO ¥		
	ns the project missing sufficient data to assess whether the prop delines?	oosed	I project has a negative effect, per TWDB Yes ✓ No □
	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the
	Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate	П	region Increase the # of entities that have multi-year drainage
	Maps used to define SFHAs		CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





FME ID: **151000185**

ML11c Wernecke

FME Description

1680 feet of storm sewer upgrade

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.13



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$215,090.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \square Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Page	1	οf	2



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





FME ID: **151000186**

ML11d Grapefruit

FME Description

582 feet of storm sewer upgrade

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Flood preparedness studies
- ☐ Feasibility Assessments ✓ Preliminary Engineering

Yes □ No □

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.13



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Study Costs

Total Cost: \$97,675.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No □ Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





FME ID: 151000187

ML11e Norma

FME Description

1545 feet of storm sewer upgrade

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- □ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies ✓ Preliminary Engineering

Study Area

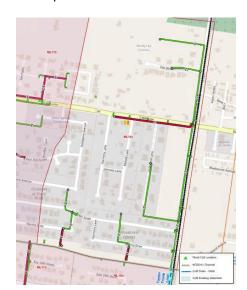
City/ Cities Mission

County/ Counties **Hidalgo County**

HUC8

HUC 12

Study Area (sq. mi.) 0.22



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? No 🗆 Frequency: Population at Risk # of structures inundated Miles inundated? Roadways flooded Yes ✓ No 🗆 Critical Facilities Impacted Yes 🗆 No 🗆 Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$293,656.00 Study Sponsor: City of Mission Estimated year to start: 2023 **Entity with Oversight** City of Mission Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No 🗆 Funding Dedicated? (Potential) Source of Funding Yes □ No ✓

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





FME ID: **151000188**

MI02 El Dorado

FME Description

180 feet of storm sewer upgrade and an extension of storm sewer of 2320 feet

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- ☐ Flood risk modeling/mapping
- $\ \square$ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.15



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$499,160.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \square Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	posed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





FME ID: **151000189**

MI05 Greenlawn

FME Description

3768 feet of storm sewer extension

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.55



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$828,784.00 Study Sponsor: City of Mission
Estimated year to start: 2023 Entity with Oversight
Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No □
Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

res	□ INO ¥		
	s the project missing sufficient data to assess whether the prop delines?	osec	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain		management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





FME ID: **151000190**

MI06a Erma

FME Description

7042 feet of storm sewer upgrade and an extension of storm sewer of 2354 feet. New construction of a 12 acre-foot detention basin.

Study Type

☐ Flood mitigation study

☐ Alternative Analysis

☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC 8

HUC 12

Study Area (sq. mi.) 0.67



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ N	No □	Frequency:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓ N	No 🗆	Miles inundated?		
Critical Facilities Impacted	Yes 🗆 🛚	No □	Agricultural Land impacted	Yes 🗆	No \square

Study Costs

Notes:

Total Cost:	\$1,776,592.50	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Ves □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes		No	✓
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FME

Flood Management Evaluations
Fact Sheet

res	S □ NO ¥		
	ns the project missing sufficient data to assess whether the prop delines?	oosed	I project has a negative effect, per TWDB Yes ✓ No □
	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the
	Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate	П	region Increase the # of entities that have multi-year drainage
	Maps used to define SFHAs		CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





MI06b Leal FME ID: 151000191

FME Description

2165 feet of storm sewer upgrade and a storm sewer extension of 2987 feet.

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☐ Flood risk modeling/mapping	Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.52

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$929,441.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No 🗸





FME

Flood Management Evaluations
Fact Sheet

res	S □ NO ¥		
	ns the project missing sufficient data to assess whether the prop delines?	oosed	I project has a negative effect, per TWDB Yes ✓ No □
	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the
	Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate	П	region Increase the # of entities that have multi-year drainage
	Maps used to define SFHAs		CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





FME ID: **151000192**

MI07a Farias

FME Description

2165 feet of storm sewer upgrade and a storm sewer extension of 2987 feet.

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= 1.000 How modeling, mapping		Flood	risk	modeling/	mapping/
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 $\hfill \square$ Flood mitigation study

Alternative Analysis
☐ Feasibility Assessments

 $\hfill\Box$ Flood preparedness studies

✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.60



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No 🗆	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No □	Agricultural Land impacted	Yes 🗆	No 🗆

Notes:

Study Costs

Total Cost:	\$1,435,240.00	Study Sponsor:	City of N	Mission
Estimated year to start:	2023	Entity with Oversight	City of I	Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓	No □
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding		

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

res	S □ NO ¥		
	ns the project missing sufficient data to assess whether the prop delines?	osed	I project has a negative effect, per TWDB Yes ✓ No □
	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the
	Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate	П	region Increase the # of entities that have multi-year drainage
	Maps used to define SFHAs		CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





FME ID: **151000193**

MI07b Guadalupe

FME Description

3559 feet of storm sewer upgrade and a single crossing improvement at I2

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☐ Flood risk modeling/mapping	☐ Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.19

Emergency Need

Yes ✓ No 🗆

Yes ▼ NO □

Known Flood Risk

History of Flooding?	Yes ✔ No 🗆	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes 🗆 No 🗈
Notes:			

Study Costs

Total Cost:	\$1,240,035.00	Study Sponsor:	City of I	Mission
Estimated year to start:	2023	Entity with Oversight	City of I	Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓	No □
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding		

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)





FME

Flood Management Evaluations
Fact Sheet

res	S □ NO ¥		
	ns the project missing sufficient data to assess whether the prop delines?	osed	I project has a negative effect, per TWDB Yes ✓ No □
	is the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Re	lated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the
	Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate	П	region Increase the # of entities that have multi-year drainage
	Maps used to define SFHAs		CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





FME ID: **151000194**

MI07c Perkins

FME Description

4739 feet of storm sewer upgrade and a single crossing improvement at Business 83

☐ Alternative Analysis

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	Flood	risk	modeling/	mapping/
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☐ Flood mitigation study ☐ Feasibility Assessments

☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.33



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Study Costs

Notes:

Total Cost: \$1,016,470.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \square Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





FME ID: **151000195**

MI09 Los Indios

FME Description

7248 feet of storm sewer upgrade and an extension of storm sewer of 1465 feet.

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☐ Flood mitigation study

Alternative Analysis

☐ Feasibility Assessments

☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 2.38



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Study Costs

Notes:

Total Cost: \$1,890,630.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \square Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





FME ID: **151000196**

MI10a Melba Carter

FME Description

1449 feet of storm sewer upgrade and an extension of storm sewer of 997 feet. Channel improvements of 2224 feet and two crossing improvements locations.

Study Type

	Flood	risk	modeling,	mapping/
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☐ Flood mitigation study

☐ Alternative Analysis☐ Feasibility Assessments

☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC 8

HUC 12

Study Area (sq. mi.) 0.31

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes 🗆 No 🗆
Notes:			

Study Costs

Total Cost:	\$865,805.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No 🗸



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





FME ID: **151000197**

MI10b Astroland

FME Description

8712 feet of storm sewer upgrade and an extension of storm sewer of 3572 feet.

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis☐ Feasibility Assessments
- ☐ Flood preparedness studies
- ✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.54

The state of the s

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$1,240,035.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \square Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





FME ID: **151000198**

MI10c Keralum

FME Description

2413 feet of storm sewer upgrade

Study Type

- $\hfill \square$ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.36



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:
Population at Risk # of structures inundated
Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes \square No \square Agricultural Land impacted Yes \square No \square

Notes:

Study Costs

Total Cost: \$524,760.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight City of Mission Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \square Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

ssing sufficient data to assess whether the prop	oosed	I project has a negative effect, per TWDB Yes ✓ No □
S		
		Increase the # of entities that adopt higher than NFIP-minimum standards
		Develop and maintain an operational stormwater asset management plan
		Increase the # of flood gauges (rainfall/stream) in the region
		Increase the # of entities that have multi-year drainage CIP list
dies with identified construction projects to		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
al detention that could be used for water		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
cipal floodplain managers, hosted by Region		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
ommunicate flood warnings, evacuation		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
f structures that have been subject to		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
	commended by the RFPG to be studied in order	nunity access routes to critical facilities, ates, during and after a flooding event of newly constructed vulnerable critical at the existing and future 100-YR floodplain of communities participating in the National e Program verage age of FEMA Flood Insurance Rate define SFHAs overage of available flood hazard data by dies with identified construction projects to ag hazards ipation in the regional flood planning process all detention that could be used for water ons or as part of a floodplain management ge of publicly protected open space in critical at that is reused for a beneficial public use ach and education activities, specifically cipal floodplain managers, hosted by Region vailable on the website se reverse 911, TV, radio, social media, and communicate flood warnings, evacuation elter locations of structures that have been subject to





FME ID: **151000199**

MI11 Lower Melba Carter (5-F)

FME Description

902 feet of channel improvements and one crossing improvement location

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis☐ Feasibility Assessments
- ☐ Flood preparedness studies
- ✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.17

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Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No \square	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆	No 🗆
Notes:					

Study Costs

Total Cost:	\$107,408.50	Study Sponsor:	City of Missi	ion
Estimated year to start:	2023	Entity with Oversight	City of Missi	ion
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No	
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding		

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





FME ID: **151000200**

MI13a1 & MI13a2 Spikes & Jupiter

FME Description

7042 feet of storm sewer upgrade and an extension of storm sewer of 2354 feet. New construction of two new detention basins one 10 acre foot and the other 40 acre foot.

Study Type

☐ Flood risk modeling/mappin		Flood	risk	modeling,	/mapping
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☐ Flood mitigation study

Alternative Analysis
Feasibility Assessments

☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC 8

HUC 12

Study Area (sq. mi.) 0.94

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Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$3,710,470.50 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \square Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	posed	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the
	Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		region Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





FME ID: **151000201**

MI13b Elm

FME Description

4105 feet of storm sewer upgrade

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.25

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Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □

Population at Risk

Roadways flooded Yes ✓ No □

Critical Facilities Impacted Yes □ No □

Frequency:
of structures inundated
Miles inundated?
Agricultural Land impacted Yes
No

Study Costs

Notes:

Total Cost: \$981,200.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \square Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	posed	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the
	Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		region Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		



FME

Flood Management Evaluations
Fact Sheet

FME ID: **151000202**

MI13c Ragland

FME Description

5363 feet of storm sewer upgrade

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- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.31

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Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Study Costs

Notes:

Total Cost: \$1,133,510.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \square Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	posed	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the
	Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		region Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





MI14a & MI14b Mission Medical Center /

FME ID: **151000203**

Travis

FME Description

1263 feet of storm sewer upgrade

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.5

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Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$273,999.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No □ Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	posed	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the
	Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		region Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





FME ID: **151000204**

MI16 Rosalinda

FME Description

1263 feet of storm sewer upgrade and include crossing improvement on 4th St upgrading from 24" to 36" pipe

Study Type

- $\ \square$ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.18

And Armania Great John Ar

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$509,295.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \square Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Page	1	of	2



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	posed	d project has a negative effect, per TWDB Yes \checkmark No \Box
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Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the
	Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		region Increase the # of entities that have multi-year drainage CIP list
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





FME ID: **151000205**

MI17 Taylor

FME Description

4031 feet of storm sewer upgrade.

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.29



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:
Population at Risk # of structures inundated
Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes \square No \square Agricultural Land impacted Yes \square No \square

Notes:

Study Costs

Total Cost: \$774,220.00 Study Sponsor: City of Mission Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \square Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	posed	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





FME ID: **151000206**

MI18a Frio

FME Description

6259 feet of storm sewer upgrade

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.85



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No 🗆	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆	No □

Notes:

Study Costs

Total Cost:	\$1,195,880.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	posed	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





FME ID: 151000207

MI18b Mission Palms

FME Description

1296 feet of storm sewer upgrade

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- □ Alternative Analysis
- ☐ Flood preparedness studies ☐ Feasibility Assessments ✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties **Hidalgo County**

HUC8

HUC 12

Study Area (sq. mi.) 0.57

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? No 🗆 Frequency: Population at Risk # of structures inundated Roadways flooded Miles inundated? Yes ✓ No 🗆 Agricultural Land impacted Yes
No Critical Facilities Impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$266,848.00 Study Sponsor: City of Mission Estimated year to start: 2023 **Entity with Oversight** City of Mission Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No 🗆 Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the propdelines?	posed	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
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	Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		region Increase the # of entities that have multi-year drainage CIP list
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





FME ID: **151000208**

MI19a Sabine

FME Description

4417 feet of storm sewer upgrade

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Mission

County/ Counties Hidalgo County

HUC8

HUC 12

Study Area (sq. mi.) 0.97



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$979,660.00 Study Sponsor: City of Mission
Estimated year to start: 2023 Entity with Oversight
Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No □
Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

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	s the project missing sufficient data to assess whether the prop delines?	osec	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain		management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





Starr County Hazard Mitigation Plan Action FME ID: 151000209

No.21

FME Description		
Improvements to Arroyo Roma a	nd Arroyo Los Morenos	
Study Type		
☐ Flood risk modeling/mapping☐ Flood mitigation study	Alternative AnalysisFeasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning

Study Area

City/ Cities

County/ Counties Starr

HUC 8

HUC 12

Study Area (sq. mi.) 1.0

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆 No 🗆	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$3,200,000.00	Study Sponsor:	Starr County Drainage District
Estimated year to start:	2023	Entity with Oversight	Starr County Drainage District
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

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FME

Flood Management Evaluations
Fact Sheet

	s the project missing sufficient data to assess whether the prop delines?	oosed	d project has a negative effect, per TWDB Yes ✓ No □
Wa	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
√	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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RFF	PG Recommended		





FME ID: 151000210

City of Del Rio Master Watershed Study Solution 1

FIVIE Description	
Regional Stormwater facilities beside Tr detention area for flood control	ibutary 1 there is an empty lot that can be ava

Regional Stormwa detention area for		ide Tributary 1 there is an empty lo	ot that can be available as off-channel
Study Type			
☐ Flood risk modeling☐ Flood mitigation sto		Alternative AnalysisFeasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area			
City/ Cities	Del Rio		
County/ Counties	Val Verde		
HUC 8			
HUC 12			
Study Area (sq. mi.)	1.0		

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆 No 🗆	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of Del Rio
Estimated year to start:	2023	Entity with Oversight	City of Del Rio
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap	by Region 15 Regional	l Flood Planning Group ((RFPG
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Yes 🗆 No •



RFPG Recommended

Yes ✓ No 🗆

FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	osec	I project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
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Yes □ No ✓



Flood Management Evaluations Fact Sheet

Parker Drain Widening (Tio Cano Lake FME ID: 151000211

Overflow)			
FME Description Parker Drain Widening (Tio Cano Lake Ovel	rflow)	
Study Type ☐ Flood risk modeling/mappi ☐ Flood mitigation study	=	ternative Analysis asibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area City/ Cities County/ Counties Came HUC 8 HUC 12 Study Area (sq. mi.) 1.0	ron		
Emergency Need Yes ✓ No□			
Known Flood Risk History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$14,046,600.00 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Cameron County Drainage District No. 6 Cameron County Drainage District No. 6 Yes ✓ No □

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes □ No ✓

FME

Flood Management Evaluations
Fact Sheet

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	s the project missing sufficient data to assess whether the properties?	ooseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFI	PG Recommended		





Flood Management Evaluations

FME ID: **151000212**

Fact Sheet

Main Drain Widening

FME Description Main Drain Widenin					
Study Type □ Flood risk modeling/mapping □ Flood mitigation study			☐ Alternative Analysis☐ Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning	
Study Area					
City/ Cities					
County/ Counties	Cameron				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.0				
Emergency Nee Yes ✓ No 🗆	ed				
Known Flood Ri	sk				
History of Flooding? Population at Risk		′es ✓		Frequency: # of structures inundated	
Roadways flooded Critical Facilities Impact Notes:		'es ✓ Yes □		Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost: Estimated year to start: Time to complete?		6,563,1	25.00 2023 2025	Study Sponsor: Entity with Oversight Included in a CIP or other plan?	Cameron County Drainage District No. 6 Cameron County Drainage District No. 6 Yes ✓ No □
Funding Dedicated?	Y	′es □	No ✓	(Potential) Source of Funding	
Study identified Yes □ No ✓	as a ga	ap by	/ Reg	ion 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





Flood Management Evaluations

Fact Sheet

Cameron County Drainage District No. 5 Regional Detention and Channel Improvements

FME Description

New Regional Detention Ponds and Channel Improvement Projects in Cameron County Drainage District No. 5 jurisdiction

Study Type

- $\hfill \square$ Flood risk modeling/mapping
- $\ \square$ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Feasibility Assessments
- $\hfill \square$ Flood preparedness studies

No 🗆

FME ID: 151000213

✓ Engineering Project Planning

Study Area

City/ Cities

County/ Counties Cameron

HUC 8

HUC 12

Study Area (sq. mi.) 1.0

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆 No 🗆	Agricultural Land impacted	Yes 🗆

Notes:

Study Costs

Total Cost:	\$4,250,000.00	Study Sponsor:	Cameron County Drainage District No. 5
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No. 5
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No□
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	



FME

Flood Management Evaluations Fact Sheet

Yes	□ No ✓		
(FN rec 31	MP) in the Region 15 Regional Flood Plan be used in the Region 15 Regional Flood Plan be used in the Region 15 Regional Flood Plan be used in the Region of TAQC Chapters 361 and 362.	eca	use it did meet the minimum
	□ No ✓ s the project missing sufficient data to assess whether the propose	d nro	ject has a negative effect, per TWDB Yes ✓ No □
	delines?	u pro	ject has a negative effect, per TWDB
Wa	s the project recommended by the RFPG to be studied in order for nefit cost ratio or the number of structures the project removes from		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
√	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and		Increase participation in the Community Rating System by

RFPG Recommended

and shelter locations

billboards to communicate flood warnings, evacuation routes,

Reduce the # of structures that have been subject to repeated

flooding events through property buyouts

Yes ✓ No 🗆

encouraging Region 15 floodplain management programs to

incorporate dedicated drainage fees to implement future

FMEs and FMPs; incorporate noncompliance penalties; and

who regulate development in the future conditions floodplain





Flood Management Evaluations Fact Sheet

Cameron County Drainage District No. 5 FME ID: 151000214

Stormsewer, Bridge, and Culvert Improvements.

FME Description New Stormsewer, bridge	e, and culvert impro	ovements.	
Study Type			
☐ Flood risk modeling/mapp☐ Flood mitigation study		lternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area			
City/ Cities			
County/ Counties Came	ron		
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.0			
Emergency Need Yes ✓ No □			
Known Flood Risk			
History of Flooding? Population at Risk	Yes ✓ No □	Frequency: # of structures inundated	
Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes □ No □	Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs			
Total Cost:	\$2,000,000.00	Study Sponsor:	Cameron County Drainage District No. 5 Cameron County Drainage District No. 5
Estimated year to start: Time to complete?	2023 2025	Entity with Oversight Included in a CIP or other plan?	Yes ✓ No □
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	
Study identified as	a gap by Regio	n 15 Regional Flood Pla	anning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oose	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





City of Harlingen - Jefferson Street Storm Drain Improvements

FME ID: **151000215**

FME Description

Intended to provide drainage relief to the area around City Lake (76th Drive, Jefferson Ave and also on 5th Street and 13th Street as shown in area map. The project provides for increasing drainage pipes and adding curb inlets to improve flow of stormwater

curb inlets to impre				oreacing aramage pipes and
Study Type				
☐ Flood risk modeling/mapping ☐ Flood mitigation study			ternative Analysis asibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area				
City/ Cities	Harlingen			
County/ Counties	Cameron			
HUC 8				
HUC 12				
Study Area (sq. mi.)	1.0			
Emergency Ne Yes ✓ No □	ed			
Known Flood F History of Flooding? Population at Risk Roadways flooded	Yes ✓ Yes ✓	No □	Frequency: # of structures inundated Miles inundated?	
Critical Facilities Impa Notes:	cted Yes 🗆	No 🗆	Agricultural Land impacted	Yes □ No □
Study Costs				
Total Cost: Estimated year to star Time to complete? Funding Dedicated?		84.24 2023 2025 No √	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Harlingen City of Harlingen Yes ✓ No □



repeated flooding events through property buyouts

FME

Flood Management Evaluations
Fact Sheet

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓ Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362. Yes □ No ✓ Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB No 🗆 guidelines? Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as No 🗆 a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? **Related Goals** Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPevacuation routes, during and after a flooding event minimum standards Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Increase the # of flood gauges (rainfall/stream) in the Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage Maps used to define SFHAs Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and program provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance

penalties; and who regulate development in the future

conditions floodplain





RFPG Recommended

Yes ✓ No 🗆





City of Harlingen - Business 77 & 13th Street **Storm Sewer**

FME ID: 151000216

FME Description

intended to provide drainage relief to the area along Business 77 and 13th Street; up to Harlingen High

School as shown culverts and curb			t provides for increasing draina stormwater.	ge pipes and adding box siz
Study Type				
☐ Flood risk modeling☐ Flood mitigation st			Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area				
City/ Cities	Harlingen			
County/ Counties	Cameron			
HUC 8				
HUC 12				
Study Area (sq. mi.)	1.0			
Emergency Ne Yes ✓ No □	ed			
Known Flood F	Risk			
History of Flooding? Population at Risk		s ✓ No□	Frequency: # of structures inundated Miles inundated?	
Roadways flooded Critical Facilities Impa Notes:		s ✓ No □ s □ No □	Agricultural Land impacted	Yes □ No □
Study Costs				
Total Cost: Estimated year to sta Time to complete? Funding Dedicated?	rt:	307,810.00 2023 2025	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Harlingen City of Harlingen Yes ✓ No □



repeated flooding events through property buyouts

FME

Flood Management Evaluations
Fact Sheet

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓ Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362. Yes □ No ✓ Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB No 🗆 guidelines? Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as No 🗆 a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? **Related Goals** Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPevacuation routes, during and after a flooding event minimum standards Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Increase the # of flood gauges (rainfall/stream) in the Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage Maps used to define SFHAs Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and program provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance

penalties; and who regulate development in the future

conditions floodplain





RFPG Recommended

Yes ✓ No 🗆





City of Harlingen - 21st Street Storm Sewer FME ID: 151000217

Improvements

ͰM	ĿΙ	Descri	ıpt	ion

intended to provide drainage relief to the areas along 21st Street from Van Buren to Austin St. as shown in area map. The project provides for increasing drainage pipes size and adding curb inlets to improve flow of stormwater

stormwater.				
Study Type				
☐ Flood risk modeling			Iternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation stu	ndy	□ F	easibility Assessments	✓ Preliminary Engineering
Study Area				
City/ Cities	Harlingen			
County/ Counties	Cameron			
HUC 8				
HUC 12				
Study Area (sq. mi.)	1.0			
Emergency Ne	ed			
Yes ✓ No 🗆				
Known Flood R	tisk			
History of Flooding? Population at Risk	Yes ✓	No 🗆	Frequency: # of structures inundated	
Roadways flooded	Yes ✓		Miles inundated?	V □ N-□
Critical Facilities Impa Notes:	cted Yes □	NO 🗆	Agricultural Land impacted	Yes □ No □
Study Costs				
Total Cost:	\$1,197,5		Study Sponsor:	City of Harlingen
Estimated year to star Time to complete?	t:	2023 2025	Entity with Oversight Included in a CIP or other plan?	City of Harlingen Yes ✓ No □
Funding Dedicated?	Vac 🗆		(Potential) Source of Funding	103 - 110 -



repeated flooding events through property buyouts

FME

Flood Management Evaluations
Fact Sheet

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓ Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362. Yes □ No ✓ Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB No 🗆 guidelines? Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as No 🗆 a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? **Related Goals** Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPevacuation routes, during and after a flooding event minimum standards Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Increase the # of flood gauges (rainfall/stream) in the Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage Maps used to define SFHAs Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and program provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance

penalties; and who regulate development in the future

conditions floodplain





RFPG Recommended

Yes ✓ No 🗆





City of Harlingen - Treasure Hills/ 25th Street FME ID: 151000218

Storm Sewer	Improvements

FME Description

intended to provide drainage relief to the areas along 25th Street and Treasure Hills Blvd; area by Treasure Hills Elementary; as shown in area map. The project provides for increasing drainage pipes size and adding curb inlets to improve flow of stormwater.

curb inlets to impro	ove flow of stormwa	ater.	•	•
Study Type				
☐ Flood risk modeling	/mapping	☐ Alternative Analysis		Flood preparedness studies
☐ Flood mitigation stu		☐ Feasibility Assessmen		Preliminary Engineering
Study Area				
City/ Cities	Harlingen			
County/ Counties	Cameron			
HUC 8				
HUC 12				
Study Area (sq. mi.)	1.0			
Emergency Never Yes ✓ No □	ed			
Known Flood R	isk			
History of Flooding?	Yes ✓ No		Frequency:	
Population at Risk			ures inundated	
Roadways flooded Critical Facilities Impa Notes:	Yes ✓ No cted Yes □ No		iles inundated? Land impacted Yes	□ No □
Study Costs				
Total Cost: Estimated year to star	\$1,476,245.			of Harlingen of Harlingen
Time to complete?		25 Included in a CIF		✓ No □
Funding Dedicated?	Yes □ No		urce of Funding	



repeated flooding events through property buyouts

FME

Flood Management Evaluations
Fact Sheet

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓ Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362. Yes □ No ✓ Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB No 🗆 guidelines? Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as No 🗆 a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? **Related Goals** Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPminimum standards evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of flood gauges (rainfall/stream) in the Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage Maps used to define SFHAs Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and program provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance

penalties; and who regulate development in the future

conditions floodplain





RFPG Recommended

Yes ✓ No 🗆





Flood Management Evaluations

Fact Sheet

EME ID: 151000219 City of Harlingen - 5th & 7th Storm Sewer **Improvements**

I IVIL ID.	131000213

FME Description

intended to provide drainage relief to the areas along 5 th, 7th Adams, and Jefferson Streets as shown in area map. The project provides for increasing drainage pipes size and adding curb inlets to improve flow of

•	3 3 1 1	
		☐ Flood preparedness studies✓ Preliminary Engineering
rlingen		
meron		
ס		
<		
Yes ✓ No 🗆	Frequency: # of structures inundated	
Yes ✓ No 🗆	Miles inundated?	
d Yes □ No □	Agricultural Land impacted	Yes □ No □
\$3,115,749.00	Study Sponsor:	
2023	Entity with Oversight	City of Harlingen
	•	Yes ✓ No 🗆
	rrlingen meron Yes ✓ No □ Yes ✓ No □ Yes □ No □ \$3,115,749.00	Feasibility Assessments arlingen meron Yes ✓ No □ Frequency:



repeated flooding events through property buyouts

FME

Flood Management Evaluations
Fact Sheet

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓ Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362. Yes □ No ✓ Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB No 🗆 guidelines? Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as No 🗆 a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? **Related Goals** Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPminimum standards evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of flood gauges (rainfall/stream) in the Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage Maps used to define SFHAs Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and program provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance

penalties; and who regulate development in the future

conditions floodplain





RFPG Recommended

Yes ✓ No 🗆





Flood Management Evaluations Fact Sheet

City of Harlingen - Lozano Street Small Detention Pond Project FME ID: **151000220**

FME Description	on				
Study Type					
☐ Flood risk modeling/mapping ☐ Flood mitigation study				Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area					
City/ Cities	Harlinge	n			
County/ Counties	Camero	า			
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.0				
Emergency Ne Yes ✓ No □	ed				
Known Flood R	Risk				
History of Flooding? Population at Risk Roadways flooded		Yes ✓ Yes ✓		Frequency: # of structures inundated Miles inundated?	
Critical Facilities Impa Notes:	acted	Yes □		Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost:		\$1,250,		Study Sponsor:	City of Harlingen
Estimated year to star Time to complete?	rt:		2023 2025	Entity with Oversight Included in a CIP or other plan?	City of Harlingen Yes ✓ No □
Funding Dedicated?		Yes □	2023 No √	(Potential) Source of Funding	163 7 INU 🗆



Yes ✓ No 🗆

FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	posed	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the
	Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		region Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





Flood Management Evaluations

FME ID: **151000221**

Fact Sheet

City of Harlingen - 21st Street Storm Sewer Improvements

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intended to provide drainage relief to the areas along 21st Street from Van Buren to Austin St. as shown in area map. The project provides for increasing drainage pipes size and adding curb inlets to improve flow of stormwater.

stormwater.	oject provides for	increasii	ig drainage pipes size and ac	duing curb inlets to improve
Study Type □ Flood risk modeling □ Flood mitigation st			ternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area City/ Cities	Harlingen			
County/ Counties	Cameron			
HUC 8				
HUC 12				
Study Area (sq. mi.)	1.0			
Emergency Ne Yes ✓ No □	ed			
Known Flood F History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:	Yes ✓ Yes ✓	No 🗆 No 🗆 No 🗆	Frequency: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs				
Total Cost: Estimated year to sta Time to complete? Funding Dedicated?		66.74 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Harlingen City of Harlingen Yes ✓ No □



repeated flooding events through property buyouts

FME

Flood Management Evaluations
Fact Sheet

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓ Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362. Yes □ No ✓ Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB No 🗆 guidelines? Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as No 🗆 a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? **Related Goals** Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPevacuation routes, during and after a flooding event minimum standards Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Increase the # of flood gauges (rainfall/stream) in the Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage Maps used to define SFHAs Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and program provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance

penalties; and who regulate development in the future

conditions floodplain





RFPG Recommended

Yes ✓ No 🗆





Flood Management Evaluations Fact Sheet

FME ID: **151000222**

City of Harlingen - Jackson Avenue Drainage Improvements Project

FME Description City of Harlingen - Jackson	Avenu	e Draina	ge Improvements Project	
Study Type				
☐ Flood risk modeling/mapping☐ Flood mitigation study	☐ Alternative Analysis☐ Feasibility Assessments			☐ Flood preparedness studies✓ Preliminary Engineering
Study Area				
City/ Cities Harlinger	1			
County/ Counties Cameron				
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.0				
Emergency Need Yes ✓ No 🗆				
Known Flood Risk				
History of Flooding? Population at Risk Roadways flooded	Yes ✓ Yes ✓	No □	Frequency: # of structures inundated Miles inundated?	
Critical Facilities Impacted Notes:	Yes 🗆	No 🗆	Agricultural Land impacted	Yes No
Study Costs				
Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$163,8 Yes 🗆	2023 2025	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Harlingen City of Harlingen Yes ✓ No □



Yes ✓ No 🗆

FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	posed	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the
	Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		region Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





Flood Management Evaluations

Fact Sheet

City of Harlingen - Hickory Hill Road Drainage Improvement Project

FME ID: **151000223**

FME Descriptio City of Harlingen -		ad Draina	age Improvement Project	
Study Type				
☐ Flood risk modeling,☐ Flood mitigation stu			Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area				
•	Harlingen			
County/ Counties	Cameron			
HUC 8				
HUC 12				
Study Area (sq. mi.)	1.0			
Emergency Nee Yes ✓ No 🗆	ed			
Known Flood Ri	isk			
History of Flooding? Population at Risk	Yes ✓		Frequency: # of structures inundated	
Roadways flooded Critical Facilities Impac Notes:	Yes ✓ ted Yes □	-	Miles inundated? Agricultural Land impacted	Yes □ No□
Study Costs				
Total Cost: Estimated year to start Time to complete? Funding Dedicated?	: Yes □	- 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Harlingen City of Harlingen Yes ✓ No □



Yes ✓ No 🗆

FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	posed	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the
	Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		region Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





Flood Management Evaluations

Fact Sheet

City of Harlingen - Lozano Street Detention

FME ID: **151000224**

Facility
Facilit

FME Description					
City of Harlingen -	Lozano	Street [Detentior	n Facility	
Study Type					
☐ Flood risk modeling	g/mapping			Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation sto	udy		□ F	easibility Assessments	✓ Preliminary Engineering
Study Area					
City/ Cities	Harlinger	1			
County/ Counties	Cameron				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.0				
Emergency Ne	ed				
Yes ✓ No 🗆					
Known Flood R	Risk				
History of Flooding?		Yes ✓	No 🗆	Frequency:	
Population at Risk				# of structures inundated	
Roadways flooded		Yes ✓	No □	Miles inundated?	
Critical Facilities Impa Notes:	icted	Yes 🗆	No □	Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost:			-	Study Sponsor:	
Estimated year to star	rt:		2023	Entity with Oversight	City of Harlingen
Time to complete? Funding Dedicated?		Voc 🗆	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
runding Dedicated?		Yes 🗆	No ✓	(Potential) Source of Funding	



Yes ✓ No 🗆

FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the propelines?	posed	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the
	Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		region Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





City of Harlingen - Adam's Crossing Subdivision
Storm Sewer Improvement Project

FME ID: **151000225**

City of Harlingen - Adam's Crossing Subdivision Storm Sewer Improvement Project					
Study Type ☐ Flood risk modeling/mapping ☐ Flood mitigation study	Alternative AnalysisFeasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering			
_ 1.000gation study	= reasionity resessint interest				

Study Area

FME Description

City/ Cities Harlingen
County/ Counties Cameron
HUC 8
HUC 12
Study Area (sq. mi.) 1.0

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$575,000.00 Study Sponsor: City of Harlingen Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \square Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding

Yes	□ N	lo √
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Yes ✓ No 🗆

FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the propelines?	posed	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the
	Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		region Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





Flood Management Evaluations

FME ID: 151000226 City of Harlingen - Teegee and Fairpark Storm Sewer System Project

Fact Sheet

FME Description City of Harlingen - Teegee and Fairpark Storm Sewer System Project					
Study Type □ Flood risk modeling	/mapping	☐ Alternative Analysis	☐ Flood preparedness studies		
☐ Flood mitigation stu	ıdy	☐ Feasibility Assessments	✓ Preliminary Engineering		
Study Area					
City/ Cities	Harlingen				
County/ Counties	Cameron				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.0				
Emergency Nee Yes ✓ No □	ed				
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impac Notes:	Yes ✓ No	# of structures inundated Miles inundated?	Yes □ No □		
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?	\$2,157,526. t: 20 20 Yes □ No	Entity with Oversight Included in a CIP or other plan?	City of Harlingen City of Harlingen Yes ✓ No □		



Yes ✓ No 🗆

FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the propelines?	posed	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the
	Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		region Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





Flood Management Evaluations Fact Sheet

City of Harlingen - Fairpark Blvd Storm Sewer System Improvement Project FME ID: **151000227**

FME Description City of Harlingen - Fairpark Blvd Storm Sewer System Improvement Project					
Study Type					
☐ Flood risk modeling/mapping ☐ Flood mitigation study				Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area					
City/ Cities	Harlinger	1			
County/ Counties	Cameron				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.0				
Emergency Ne Yes ✓ No □	ed				
Known Flood F	Risk				
Population at Risk		No □	Frequency: # of structures inundated Miles inundated?		
Critical Facilities Impa Notes:	icted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost: \$592,0		00.00	Study Sponsor:	City of Harlingen	
Estimated year to start: Time to complete?			2023 2025	Entity with Oversight Included in a CIP or other plan?	City of Harlingen Yes ✓ No □
Funding Dedicated?		Yes 🗆	No ✓	(Potential) Source of Funding	ics · NO 🗆



Yes ✓ No 🗆

FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oose	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





Flood Management Evaluations Fact Sheet

City of Harlingen - Jacaranda Storm Sewer **System Improvement Project**

FME ID: 151000228

FME Description

City of Harlingen - Jacaranda Storm Sewer System Improvement Project						
Study Type ☐ Flood risk modeling/r ☐ Flood mitigation stud			Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering		
County/ Counties HUC 8	Harlingen Cameron					
Emergency Nee Yes ✓ No 🗆	d					
Known Flood Ris History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacto Notes:	Yes ✓ Yes ✓		Frequency: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □		
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$303, Yes 🗆	000.00 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Harlingen City of Harlingen Yes ✓ No □		
Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)						



Yes ✓ No 🗆

FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oose	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		



Yes □ No ✓



Flood Management Evaluations Fact Sheet

FME ID: **151000229**

City of Harlingen - Ed Carey Storm Sewer System Improvement Project

FME Description City of Harlingen - Ed Carey Storm Sewer System Improvement Project							
		☐ Flood preparedness studies✓ Preliminary Engineering					
en							
on							
Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No					
\$2,700,000.00 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Harlingen City of Harlingen Yes ✓ No □					
	Yes ✓ No □ Yes ✓ No □ Yes ✓ No □ Yes □ No □ \$2,700,000.00 2023 2025	Yes ✓ No □ Frequency: # of structures inundated Yes ✓ No □ Miles inundated? Yes □ No □ Agricultural Land impacted \$2,700,000.00 2023 Entity with Oversight 2025 Included in a CIP or other plan?					



Yes ✓ No 🗆

FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oose	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		



Yes □ No ✓



Flood Management Evaluations Fact Sheet

S Storm Sewer FME ID: 151000230

City of Harlingen - Pickens Storm Sewer Improvements Project

FME Descriptio	n				
City of Harlingen -	Pickens	Storm	Sewer	Improvements Project	
Ctoral True					
Study Type	,		_		
☐ Flood risk modeling☐ Flood mitigation stu				Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
•	•			·	
Study Area					
City/ Cities	Harlinge	n			
County/ Counties	Camero	า			
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.0				
Emergency Ne	ed				
Yes ✓ No 🗆					
Known Flood R	isk				
History of Flooding?		Yes ✓	No 🗆	Frequency:	
Population at Risk Roadways flooded		Yes ✓	No □	# of structures inundated Miles inundated?	
Critical Facilities Impa	cted	Yes 🗆			Yes □ No□
Notes:					
Study Costs					
Total Cost:		\$1,743,0	00.00	Study Sponsor:	City of Harlingen
Estimated year to star	t:		2023	Entity with Oversight	City of Harlingen
Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No ☐ Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding					
5			-	, , , , , , , , , , , , , , , , , , , ,	



Yes ✓ No 🗆

FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oose	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		



Yes □ No ✓



Flood Management Evaluations

Fact Sheet

City of Harlingen - Sunchase Storm Sewer Improvements

FME Description City of Harlingen - Sunchase Storm Sewer Improvements								
Study Type								
☐ Flood risk modeling/mapping ☐ Flood mitigation study			lternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering				
Study Area								
City/ Cities	Harlingen							
County/ Counties	Cameron							
HUC 8								
HUC 12								
Study Area (sq. mi.)	1.0							
Emergency Nee Yes ✓ No 🗆	ed							
Known Flood Ri	sk							
History of Flooding? Population at Risk Roadways flooded	Yes ✓	-	Frequency: # of structures inundated Miles inundated?					
Critical Facilities Impac Notes:	ted Yes 🗆	No 🗆	Agricultural Land impacted	Yes □ No □				
Study Costs								
Total Cost: Estimated year to start Time to complete? Funding Dedicated?		480.00 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Harlingen City of Harlingen Yes ✓ No □				



Yes ✓ No 🗆

FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oose	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		



Yes □ No ✓



Flood Management Evaluations Fact Sheet

City of Harlingen - Sabal Palm Storm Sewer
System Improvements

FME ID: **151000232**

FME Description City of Harlingen - Sabal Palm Storm Sewer System Improvements								
Study Type								
☐ Flood risk modeling,☐ Flood mitigation stu			☐ Alternative Analysis☐ Feasibility Assessments		☐ Flood preparedness studies✓ Preliminary Engineering			
Study Area								
City/ Cities	Harlingen							
County/ Counties	Cameron							
HUC 8								
HUC 12								
Study Area (sq. mi.)	1.0							
Emergency Nee Yes ✓ No □	ed							
Known Flood R	isk							
History of Flooding? Population at Risk Roadways flooded		s ✓ No	o 🗆	Frequency: # of structures inundated Miles inundated?				
Critical Facilities Impac Notes:		es 🗆 No		Agricultural Land impacted	Yes □ No □			
Study Costs								
Total Cost: Estimated year to start Time to complete? Funding Dedicated?	::)23)25	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Harlingen City of Harlingen Yes ✓ No □			



Yes ✓ No 🗆

FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	oose	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		



Yes □ No ✓



Flood Management Evaluations Fact Sheet

FME ID: **151000233**

City of Harlingen - Summerfield Storm Sewer System Improvement Project

FME Description City of Harlingen - Summerfield Storm Sewer System Improvement Project								
Study Type								
☐ Flood risk modeling☐ Flood mitigation stu				Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering			
Study Area								
City/ Cities	Harlinger	1						
County/ Counties	Cameron							
HUC 8								
HUC 12								
Study Area (sq. mi.)	1.0							
Emergency Ned Yes ✓ No 🗆	ed							
Known Flood R	isk							
History of Flooding? Population at Risk Roadways flooded		Yes ✓		Frequency: # of structures inundated Miles inundated?				
Critical Facilities Impa Notes:	cted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes □ No □			
Study Costs								
Total Cost: Estimated year to star Time to complete? Funding Dedicated?	t:	\$45,0 Yes 🗆	000.00 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Harlingen City of Harlingen Yes ✓ No □			



Yes ✓ No 🗆

FME

Flood Management Evaluations
Fact Sheet

Yes	□ No ✓		
	s the project missing sufficient data to assess whether the prop delines?	posed	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the
	Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		region Increase the # of entities that have multi-year drainage CIP list
✓	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





FME ID: 151000234

City of Harlingen - Beck Ave Storm Sewer

Improvement Projec	ct		
FME Description City of Harlingen - Beck Ave St	corm Sewer Improv	vement Project	
Study Type			
☐ Flood risk modeling/mappir☐ Flood mitigation study	-	☐ Alternative Analysis☐ Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area County/ Counties Camer	on		
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No 🗆			
Known Flood Risk	Yes ✓ No □	Frequency of flooding:	

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$114,600	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

		_
Yes	Nο	~



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000236

City of Harlingen - 1st Street Storm Sewer Improvement Project

FME Description
City of Harlingen - 1st Street Storm Sewer Improve

Yes □ No ✓

FME Description City of Harlingen - 1st Street Storm Sewer Improvement Project							
Study Type □ Flood risk modeling/mapping □ Flood mitigation study		□ Alternative Analysis□ Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering				
Study Area							
County/ Counties Cameror	ı						
HUC 8							
HUC 12							
Study Area (sq. mi.) 1.00							
Emergency Need Yes ✓ No □							
Known Flood Risk History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No ☐ Yes ✓ No ☐ Yes ☐ No ☐	# of structures inundated Miles inundated?	Yes □ No □				
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$320,0 20 20 Yes 🗆 No	23 Entity with Oversight 25 Included in a CIP or other plan?	City of Harlingen City of Harlingen Yes ✓ No □				
Study identified as a	gap by Re	gion 15 Regional Flood Pla	anning Group (RFPG)				



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





City of Harlingen - Alcott Storm Sewer System Improvement Project

FME ID: 151000237

FME Description City of Harlingen - Alcott Storm Sewer System Improvement Project							
Study Type ☐ Flood risk modeling/mapping ☐ Flood mitigation study		Alternative AnalysisFeasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering				
Study Area County/ Counties Cameron	ı						
HUC 8							
HUC 12							
Study Area (sq. mi.) 1.00							
Emergency Need Yes ✓ No □							
Known Flood Risk							
History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:					
Population at Risk Roadways flooded	Yes ✓ No 🗆	# of structures inundated Miles inundated?					
Critical Facilities Impacted Notes:	Yes No	Agricultural Land impacted	Yes □ No □				
Study Costs							
Total Cost:	\$342,00						
Estimated year to start: Time to complete?	202 202	, ,	City of Harlingen Yes ✓ No □				
Funding Dedicated?	Yes 🗆 No	-	ies / ino u				
Cr. I : I · ······ I	I D	. 455 . [5]	· /DEDC/				

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000238

City of Harlingen - 7th Street Storm Sewer Improvement Project

mprovement Proje	ect			
FME Description City of Harlingen - 7th Street	t Storm Sewe	r Improv	ement Project	
Study Type ☐ Flood risk modeling/mapp ☐ Flood mitigation study	oing		Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area County/ Counties Came	eron			
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need Yes ✓ No 🗆				
Known Flood Risk				
History of Flooding? Population at Risk Roadways flooded	Yes ✓ Yes ✓		Frequency of flooding: # of structures inundated Miles inundated?	
Critical Facilities Impacted Notes:	Yes 🗆		Agricultural Land impacted	Yes □ No □

Study Costs

Total Cost:	\$412,000	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Yes	Nο	/
YES	INO	v



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000238

City of Harlingen - 7th Street Storm Sewer Improvement Project

mprovement Proje	ect			
FME Description City of Harlingen - 7th Street	t Storm Sewe	r Improv	ement Project	
Study Type ☐ Flood risk modeling/mapp ☐ Flood mitigation study	oing		Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area County/ Counties Came	eron			
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need Yes ✓ No 🗆				
Known Flood Risk				
History of Flooding? Population at Risk Roadways flooded	Yes ✓ Yes ✓		Frequency of flooding: # of structures inundated Miles inundated?	
Critical Facilities Impacted Notes:	Yes 🗆		Agricultural Land impacted	Yes □ No □

Study Costs

Total Cost:	\$412,000	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Yes	Nο	/
YES	INO	v



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		



Time to complete?

Funding Dedicated?



Flood Mitigation Evaluations

FME ID: 151000239 City of Harlingen - Hoogland Street Storm Sewer **Improvements**

Fact Sheet

improvements			
FME Description City of Harlingen - Hoogland St	reet Storm Sewer Impro	ovements	
Study Type □ Flood risk modeling/mappin □ Flood mitigation study	=	ernative Analysis sibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area County/ Counties Camero	on		
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No □			
Known Flood Risk			
History of Flooding? Population at Risk	Yes ✓ No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded	Yes ✓ No 🗆 Yes 🗆 No 🗆	Miles inundated? Agricultural Land impacted	Yes □ No □
Critical Facilities Impacted Notes:	IES LINUL	Agricultural Land Impacted	Yes □ No □
Study Costs			
Total Cost:	\$300,000	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓

2025

Yes □ No ✓

Included in a CIP or other plan? Yes ✓ No □

(Potential) Source of Funding



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000240

City of Harlingen - Rose Street Storm Sewer

mprovement Proje	ct	
FME Description City of Harlingen - Rose Street	t Storm Sewer Improvement Project	
Study Type		
☐ Flood risk modeling/mappi☐ Flood mitigation study	ng □ Alternative Analysis □ Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area		
County/ Counties Camer	ron	
HUC 8		
HUC 12		
Study Area (sq. mi.) 1.00		
Emergency Need Yes ✓ No 🗆		
Known Flood Risk		

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No 🗆	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆	No 🗆
Notes:					

Study Costs

Total Cost:	\$182,000	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study	/ identified as a gap	by Region 15	Regional Flood	Planning Group	(RFPG)
,	, , , , , , , , , , , , , , , , , , , ,				(/

Yes	Nο	✓



Yes □ No ✓

FME

Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain		management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





FME ID: 151000241

Study Sponsor: City of Harlingen

Yes ✓ No 🗆

Entity with Oversight City of Harlingen

City of Harlingen - Beck and Breedlove Storm Sewer Improvement Project

Sewer Improvement Project							
FME Description City of Harlingen - Beck and Breedlove Storm Sewer Improvement Project							
Study Type							
☐ Flood risk modeling/mappi☐ Flood mitigation study	ng		Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering			
Study Area							
County/ Counties Came	ron						
HUC 8							
HUC 12							
Study Area (sq. mi.) 1.00							
Emergency Need Yes ✓ No□							
Known Flood Risk							
History of Flooding? Population at Risk	Yes ✓	No 🗆	Frequency of flooding: # of structures inundated				
Roadways flooded	Yes ✓	_	Miles inundated?				
Critical Facilities Impacted Notes:	Yes 🗆	No □	Agricultural Land impacted	Yes □ No □			
Study Costs							

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Included in a CIP or other plan?

(Potential) Source of Funding

\$182,000

Yes □ No ✓

2023

2025

Yes □ No ✓

Total Cost:

Estimated year to start:

Time to complete?

Funding Dedicated?



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000242

City of Harlingen - Dilworth Storm Sewer Improvement Project

Improvement Proje	ct			
FME Description				
City of Harlingen - Dilworth S	torm Sewer	Improveme	nt Project	
Study Type				
☐ Flood risk modeling/mappi ☐ Flood mitigation study	ing		ternative Analysis asibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area				
County/ Counties Came	ron			
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need				
Yes ✓ No 🗆				
Known Flood Risk				
History of Flooding? Population at Risk	Yes ✓	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded	Yes ✓	No □	Miles inundated?	
Critical Facilities Impacted	Yes 🗆	No □	Agricultural Land impacted	Yes □ No □

Study Costs

Notes:

Total Cost:	\$258,000	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes ✔ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

		_
Yes	Nο	~



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000243

City of Harlingen - Quail Run Street Storm Sawer Improvement Project

sewer improvement Project						
FME Description City of Harlingen - Quail F	Run Street Storm	n Sewer Ir	mprovement Project			
Study Type			Alternative Analysis	☐ Flood preparedness studies		
☐ Flood mitigation study			Feasibility Assessments	✓ Preliminary Engineering		
Study Area						
	ameron					
HUC 8						
HUC 12						
Study Area (sq. mi.) 1.	00					
Emergency Need						
Yes ✓ No 🗆						
Known Flood Ris	k					
History of Flooding? Population at Risk	Yes ✓	No 🗆	Frequency of flooding: # of structures inundated			
Roadways flooded	Yes ✓	No \square	Miles inundated?			
Critical Facilities Impacte Notes:	d Yes □	No 🗆	Agricultural Land impacted	Yes 🗆 No 🗆		
Study Costs						

Total Cost:	\$200,000	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Yes	Nο	/
YES	INO	v



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000244

City of Harlingen - Hapner Street Storm Sewer Improvement Project

mprovement Proje	ect			
FME Description City of Harlingen - Hapner St	reet Storm So	ewer Imp	provement Project	
Study Type □ Flood risk modeling/mapp □ Flood mitigation study	ing		Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area County/ Counties Came	eron			
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need Yes ✓ No 🗆				
Known Flood Risk				
History of Flooding? Population at Risk Roadways flooded	Yes ✓ Yes ✓		Frequency of flooding: # of structures inundated Miles inundated?	
Critical Facilities Impacted Notes:	Yes 🗆	-	Agricultural Land impacted	Yes □ No □

Study Costs

Total Cost:	\$167,200	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Yes	Nο	/
YES	INO	v



Flood Mitigation Evaluations Fact Sheet

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remove		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: 151000245

City of Harlingen - Rio Hondo Road Ditch

mprovements					
FME Description City of Harlingen - Cantu Latera	ıl Ditch Imp	provement Pro	oject		
Study Type					
☐ Flood risk modeling/mapping☐ Flood mitigation study	g		native Analysis bility Assessments	☐ Flood preparedness studie✓ Preliminary Engineering	es
Study Area County/ Counties Camero	n				
HUC 8					
HUC 12					
Study Area (sq. mi.) 1.00					
Emergency Need Yes ✓ No 🗆					
Known Flood Risk History of Flooding?	Yes ✓	No 🗆	Frequency of floo	oding:	

History of Flooding?	Yes ✔ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$1,901,000	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

		_
Yes	Nο	~



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000246

City of Harlingen - Cantu Lateral Ditch Improvement Project

Improvement F	Project		
FME Descriptio City of Harlingen - Can		ovement Project	
Study Type ☐ Flood risk modeling ☐ Flood mitigation stu	· · · -	☐ Alternative Analysis☐ Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area County/ Counties	Cameron		
HUC 8			
HUC 12			
Study Area (sq. mi.)	1.00		

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$354,860 Study Sponsor: City of Harlingen Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No ☐ Funding Dedicated? Yes ☐ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Voc	Nο	./
Yes	NO	~



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000247

	Ovall	e l	Lateral	Conn	ectivity
--	-------	-----	---------	------	----------

Yes □ No ✓

FME Description Ovalle Lateral Connectivity			
Study Type □ Flood risk modeling/mapping □ Flood mitigation study		Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area County/ Counties Cameron HUC 8 HUC 12 Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No□			
Known Flood Risk History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$1,385,937.5 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Cameron County Drainage District No. 6 Cameron County Drainage District No. 6 Yes ✓ No □

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





Deta Regional Water Management - Santa Cruz FME ID: 151000248

Detention Pond

FME Description a regional detention facility at the and water storage	ne Santa Cr	ruz Reservo	oir, expanding the footprint to app	roximately 418 acres for flood mitigation
Study Type □ Flood risk modeling/mapping		□ Al	ternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study		☐ Fe	asibility Assessments	✓ Preliminary Engineering
Study Area County/ Counties Hidalgo				
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need Yes ✓ No □				
Known Flood Risk				
History of Flooding? Population at Risk		No 🗆	Frequency of flooding: # of structures inundated Miles inundated?	
Roadways flooded Critical Facilities Impacted Notes:		No □ No □	Agricultural Land impacted	Yes No
Study Costs				
Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$10,0 Yes □	00,000 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Drainage District No.1 Hidalgo County Drainage District No.1 Yes ✓ No □
			_	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes	Nο	✓



Yes □ No ✓

FME

Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
Ш	facilities within the existing and future 100-YR floodplain	Ш	management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





Deta Regional Water Management - Engleman FME ID: 151000249

Detention Pond/Reservoir

FME Description A regional detention facility at the Engleman (Carlton Barth) Irrigation Reservoir, expanding the footprint to approximately 77 acres for flood mitigation and water storage.								
Study Type □ Flood risk modeling/mapping	□ Al	ternative Analysis	☐ Flood preparedness studies					
☐ Flood mitigation study	□ Fea	asibility Assessments	✓ Preliminary Engineering					
Study Area County/ Counties Hidalgo								
HUC 8								
HUC 12								
Study Area (sq. mi.) 1.00								
Emergency Need Yes ✓ No □								
Known Flood Risk								
History of Flooding? Population at Risk Roadways flooded	Yes ✓ No □ Yes ✓ No □	Frequency of flooding: # of structures inundated Miles inundated?						
Critical Facilities Impacted Notes:	Yes No No	Agricultural Land impacted	Yes No					
Study Costs								
Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$10,000,000 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Drainage District No.1 Hidalgo County Drainage District No.1 Yes ✓ No □					
Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)								

Yes □ No ✓



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





Flood Mitigation Evaluations

FME ID: 151000250

Fact Sheet

South Main Drain BP 3

Yes □ No ✓

FIMIE DESCRIPTION 5.6 miles of channel improveme	nts includes wideing	in within existing right of way. Fron	n FM493 to FM 907
Study Type			
☐ Flood risk modeling/mapping☐ Flood mitigation study		lternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area			
County/ Counties Hidalgo			
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need			
Yes ✓ No 🗆			
Known Flood Risk			
History of Flooding? Population at Risk	Yes ✓ No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted Notes:	Yes □ No □	Agricultural Land impacted	Yes □ No □
Study Costs			
Total Cost:	\$23,010,000		Hidalgo County Drainage District No.1
Estimated year to start: Time to complete?	2023 2025	Entity with Oversight Included in a CIP or other plan?	Hidalgo County Drainage District No.1 Yes ✓ No □
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

Alexander of the second		description of the second seco
	ose	d project has a negative effect, per TWDB Yes ✓ No □
ated Goals		
Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
Maps used to define SFHAs Increase the coverage of available flood hazard data by		Increase the # of entities that have multi-year drainage CIP list Increase the # of entities that integrate National Weather Sorvice and USGS Toyas Water Science Center (TYMSG)
address flooding hazards Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management		Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
Increase the use reverse 911, TV, radio, social media, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs
	delines? In the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remove enefit cost ratio or the number of structures the project remove enefit cost ratio or the number of structures the project remove enefit cost ratio or the number of structures the project remove enefit cost ratio or the number of structures the project remove energy evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region	the project missing sufficient data to assess whether the proposed lelines? It the project recommended by the RFPG to be studied in order for it enefit cost ratio or the number of structures the project removes from the first cost ratio or the number of structures the project removes from the first cost ratio or the number of structures the project removes from the first cost ratio or the number of structures the project removes from the first cost ratio or the number of structures the project removes from the first cost ratio or the number of structures the project removes from the first cost cost and the first cost of the first cost or the first cost of the first cos





Flood Mitigation Evaluations

Fact Sheet

Ditch 1.9, 2, and 4a- La Villa/ Edcouch/ Elsa BP 8 FME ID: 151000251

FME Description 4.3 miles of channel improvement crossings, with new pump statio		avating and widening in new and existi	ng right of way, including additional culvert
Study Type □ Flood risk modeling/mapping □ Flood mitigation study		□ Alternative Analysis□ Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area County/ Counties Hidalgo			
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No□			
Known Flood Risk			
History of Flooding? Population at Risk Roadways flooded	Yes ✓ No□	Frequency of flooding: # of structures inundated Miles inundated?	
Critical Facilities Impacted Notes:	Yes ✓ No ☐ Yes ☐ No ☐	Agricultural Land impacted	Yes □ No □
Study Costs			
Total Cost: Estimated year to start: Time to complete?	\$23,010,00 202 202	Entity with Oversight Included in a CIP or other plan?	Hidalgo County Drainage District No.1 Hidalgo County Drainage District No.1 Yes ✓ No □
Funding Dedicated? Study identified as a second se	Yes 🗆 No	(Potential) Source of Funding gion 15 Regional Flood Pl	anning Group (REPG)
Yes □ No ✓	246 S 11C8	DIGIT TO MCDIONAL LIOUALI	arming Group (III i G)



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		



Yes □ No ✓



Flood Mitigation Evaluations Fact Sheet

PD Lateral rain - Extensions 2, 3 and 5 BP 15 FME ID: 151000252

FME Description				
2 miles of channel improveme	ents include wi	lening Late	erals 2,3, and 5 within United Irri	gation District Right of way
Study Type				
☐ Flood risk modeling/mappin☐ Flood mitigation study	ng		rnative Analysis bility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area				
County/ Counties Hidalg	o			
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need Yes ✓ No□				
Known Flood Risk				
History of Flooding? Population at Risk	Yes ✓ No		Frequency of flooding: # of structures inundated	
Roadways flooded	Yes ✓ No		Miles inundated?	
Critical Facilities Impacted Notes:	Yes □ No) [Agricultural Land impacted	Yes No
Study Costs				
Total Cost: Estimated year to start:	\$3,140	,000 2023	Study Sponsor: Entity with Oversight	Hidalgo County Drainage District No.1 Hidalgo County Drainage District No.1
Time to complete?			ncluded in a CIP or other plan?	Yes ✓ No □
Funding Dedicated?	Yes 🗆 I	No ✓	(Potential) Source of Funding	
Study identified as a	a gap by R	egion 1	15 Regional Flood Pla	anning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





Flood Mitigation Evaluations

FME ID: 151000253

Study Sponsor: Hidalgo County Drainage District No.1

Yes ✓ No 🗆

Hidalgo County Drainage District No.1

Fact Sheet

Bates Lateral Ditch Extension BP 17

FIVIE Description				
•			Bates Lateral Ditch towards S. Abram Abram Road, outfallin at the Bates La	Road and new storm drainage system teral Ditch Extension.
Study Type				
☐ Flood risk modeling/mapping☐ Flood mitigation study			Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area County/ Counties Hidalgo				
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need Yes ✓ No □				
Known Flood Risk History of Flooding?	Yes ✓	No □	Frequency of flooding:	
Population at Risk			# of structures inundated	
Roadways flooded	Yes ✓	No 🗆	Miles inundated?	W = N =
Critical Facilities Impacted Notes:	Yes □	No □	Agricultural Land impacted	Yes □ No □

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Entity with Oversight

Included in a CIP or other plan?

(Potential) Source of Funding

\$1,940,000

Yes □ No ✓

2023

2025

Yes □ No ✓

Study Costs
Total Cost:

Estimated year to start:

Time to complete?

Funding Dedicated?



Flood Mitigation Evaluations
Fact Sheet

Wa	s the project missing sufficient data to assess whether the prop	nsed	d project has a negative effect, per TWDB Yes ✓ No □
	delines?	,0500	a project has a negative effect, per 1900 by
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remove		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain		management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Flood Mitigation Evaluations

Fact Sheet

FME ID: 151000254 PD Lateral - Iowa Road Drainage Improvements **BP 18**

- N	4 -	D .	4.3
$\vdash \Vdash$	/I F	Descri	ntion
		DCJCII	PUOL

Yes □ No ✓

Channel improvements include widening of the PD Lateral from SH 107 to Vaquero Avenue within existing right of way and

		. New storm drainage system for the lowa Road near alignmnet for Mile 8	_
Study Type			
☐ Flood risk modeling/m☐ Flood mitigation study	•	Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area			
County/ Counties Hi	idalgo		
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.	.00		
Emergency Need Yes ✓ No □	d		
Known Flood Ris History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacte Notes:	Yes ✓ No □ Yes ✓ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$1,940,000 2023 2025 Yes □ No ✔	Entity with Oversight Included in a CIP or other plan?	Hidalgo County Drainage District No.1 Hidalgo County Drainage District No.1 Yes ✓ No □

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000255 South Abram Lateral Drain BP 19

	_					
+N/	l⊢ .	Desc	٦rı	nt	$ \cap $	า

FME Description			
Channel improvements inclu Chihuahua Drive and Los Cha			stem along West Loop 374 between
Study Type			
☐ Flood risk modeling/mapp☐ Flood mitigation study	=	ternative Analysis asibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area			
County/ Counties Hidal	go		
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No □			
Known Flood Risk			
History of Flooding? Population at Risk	Yes ✓ No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No 🗆 Yes 🗆 No 🗆	Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs			
Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$1,900,000 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Drainage District No.1 Hidalgo County Drainage District No.1 Yes ✓ No □
Study identified as Yes □ No ✓	a gap by Regior	15 Regional Flood Pla	anning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		



Yes □ No ✓



Flood Mitigation Evaluations

FME ID: 151000256

Seminary regional detention facility BP 20

Fact Sheet

FME Description Acquisition of 67.8 acres for ex	ccavation of regional de	etention facility located at Seminar	ry Road and Ingle Road.
Study Type ☐ Flood risk modeling/mappin ☐ Flood mitigation study	=	ternative Analysis asibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area County/ Counties Hidalgo)		
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No □			
Known Flood Risk History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$5,610,000 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Drainage District No.1 Hidalgo County Drainage District No.1 Yes ✓ No □
Study identified as a	gap by Regior	n 15 Regional Flood Pla	anning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		



Yes □ No ✓



Flood Mitigation Evaluations Fact Sheet

Structure 606AL and Ditch Improvements BP 22 FME ID: 151000257

FME Description 0.4 miles of channel improveme AL, north of SH 107	nts includ	e ditch w	videning and new gatewell structure v	with pump at IBWC Leevee Structure 606
Study Type □ Flood risk modeling/mapping			Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study			Feasibility Assessments	✓ Preliminary Engineering
Study Area				
County/ Counties Hidalgo				
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need Yes ✓ No□				
res · No 🗆				
Known Flood Risk				
History of Flooding?	Yes ✓	No \square	Frequency of flooding:	
Population at Risk Roadways flooded	Yes ✓	No □	# of structures inundated Miles inundated?	
Critical Facilities Impacted Notes:	Yes 🗆	No 🗆	Agricultural Land impacted	Yes No
Study Costs				
Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$1, ⁻ Yes □	710,000 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Drainage District No.1 Hidalgo County Drainage District No.1 Yes ✓ No □
Study identified as a §	gap by	Regio	on 15 Regional Flood Pla	anning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		



Yes □ No ✓



Flood Mitigation Evaluations Fact Sheet

FME ID: 151000258

Donna North Lateral Extension BP 23

FME Description Construction of storms		np station and force I	main across I2, west of FM 493	
Study Type ☐ Flood risk modeling ☐ Flood mitigation stu			ternative Analysis asibility Assessments	 ☐ Flood preparedness studies ✓ Preliminary Engineering
Study Area County/ Counties	Hidalgo	⊔ ге	asibility Assessments	r reminiary Engineering
HUC 8				
HUC 12				
Study Area (sq. mi.)	1.00			
Emergency Nee Yes ✓ No □	ed			
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impac Notes:		Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?	t:	\$810,000 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Drainage District No.1 Hidalgo County Drainage District No.1 Yes ✓ No □
Study identified	d as a g	gap by Regior	n 15 Regional Flood Pla	anning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		



Yes □ No ✓



Flood Mitigation Evaluations Fact Sheet

Ditch F-13-00 and F-02-00 Improvements BP 24 FME ID: 151000259

FME Description 4.7 miles of channel improvements include widening Ditches F-13-00 and F-02-00 within existing right of way, from Hwy 281 to Floodway Leevee.								
Study Type								
☐ Flood risk modeling/mapping☐ Flood mitigation study		lternative Analysis asibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering					
Study Area								
County/ Counties Hidalgo								
HUC 8								
HUC 12								
Study Area (sq. mi.) 1.00								
Emergency Need Yes ✓ No □								
Known Flood Risk History of Flooding? Population at Risk	Yes ✓ No 🗆	Frequency of flooding: # of structures inundated						
Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes □ No □	Miles inundated? Agricultural Land impacted	Yes No					
Study Costs								
Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$1,460,000 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Drainage District No.1 Hidalgo County Drainage District No.1 Yes ✓ No □					
Study identified as a g	gan hy Regior	n 15 Regional Flood Pla	anning Group (REPG)					



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





Flood Mitigation Evaluations

FME ID: 151000260

Fact Sheet

San Juan Lateral Extension BP 25

Decemberion	

FME Descriptio	n						
Channel improvements include widening the San Juan Lateral within existing right of way, from Ridge Road to Sam Houston Blvd. New storm drainage culvert from Sam Houston Blvd. to Carroll Rd.							
New storm drainage cu	ulvert fron	n Sam Ho	uston Blvc	l. to Carroll Rd.			
Study Type							
☐ Flood risk modeling,				Alternative Analysis	☐ Flood preparedness studies		
☐ Flood mitigation stu	ıdy		∐ F (easibility Assessments	✓ Preliminary Engineering		
Study Area							
County/ Counties	Hidalgo						
HUC 8							
HUC 12							
Study Area (sq. mi.)	1.00						
Emergency Nee	ed						
Yes ✓ No 🗆							
Known Flood R	isk						
History of Flooding?		Yes ✓	No □	Frequency of flooding:			
Population at Risk Roadways flooded		Yes ✓	No □	# of structures inundated Miles inundated?			
Critical Facilities Impac	cted	Yes □		Agricultural Land impacted	Yes □ No □		
Notes:							
Study Costs							
Total Cost:		\$3.4	460,000	Study Sponsor:	Hidalgo County Drainage District No.1		
Estimated year to start	t:		2023	Entity with Oversight	Hidalgo County Drainage District No.1		
Time to complete?		., –	2025	Included in a CIP or other plan?	Yes ✓ No 🗆		
Funding Dedicated?		Yes 🗆	No ✓	(Potential) Source of Funding			
Study identified	d as a g	gap by	Regio	n 15 Regional Flood Pla	anning Group (RFPG)		
Yes □ No ✓		- ' '		<u> </u>			



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osec	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000261

LF Drain Nolana Extention BP 26

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1 1 7	_	DCJCII	ישו	1011

FME Description	on				
Channel and culvert in	mproveme	nts includ	le excavat	ion of new drainage ditch and draina	age culverts from Earling Road to LJ Drain.
Study Type					
☐ Flood risk modeling/mapping☐ Flood mitigation study		Alternative AnalysisFeasibility Assessments			☐ Flood preparedness studies✓ Preliminary Engineering
Study Area					
County/ Counties	Hidalgo				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Ne Yes ✓ No □	ed				
Known Flood R	Risk				
History of Flooding? Population at Risk		Yes ✓	-	Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impa Notes:	cted	Yes ✓ Yes □	-	Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost: Estimated year to star Time to complete? Funding Dedicated?	rt:		740,000 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Drainage District No.1 Hidalgo County Drainage District No.1 Yes ✓ No □
Study identifie	d as a g	gap by	/ Regio	n 15 Regional Flood Pla	anning Group (RFPG)

Yes □ No ✓



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osec	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FEMA Map FME ID: 151000262

FME Description Assessment of the city's floodplain to determine areas of flooding and develop a FEMA map.								
Study Type □ Flood risk modeling/mapping □ Alternative Analysis □ Flood preparedness study □ Feasibility Assessments ✓ Preliminary Engineering								
Study Area								
County/ Counties	Hidalgo							
HUC 8								
HUC 12								
Study Area (sq. mi.)	1.00							
Emergency Nee	ed							
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impac Notes:			No 🗆 No 🗆 No 🗆	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No			
Study Costs								
Total Cost: Estimated year to start Time to complete? Funding Dedicated?	t:		250,000 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Edcouch City of Edcouch Yes ✓ No □			
Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓								



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osec	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000263

Main Drain regional detention facility

FME Description

Main Drain regional detention facility

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- □ Alternative Analysis ☐ Feasibility Assessments
- ☐ Flood preparedness studies ✓ Preliminary Engineering

Study Area

County/ Counties Hidalgo

HUC8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted

Yes ✓ No 🗆

Yes ✓ No 🗆 Yes □ No □ # of structures inundated Miles inundated?

Agricultural Land impacted Yes □ No □

Frequency of flooding:

Study Costs

Notes:

Total Cost:	\$150,000	Study Sponsor:	City of Edcouch
Estimated year to start:	2023	Entity with Oversight	City of Edcouch
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓





Yes □ No ✓

FME

Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes \checkmark No \Box
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remove		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
Ц	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





Drainage Masterplan FME ID: 151000264

FME Description

Assessment of the city's drainage infrastructure to determine improvements and alleviate flooding.

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	Flood	risk	modeling/	mapping/
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☐ Flood mitigation study

Alternative Analysis
Feasibility Assessments

☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

County/ Counties Hidalgo

HUC 8

HUC 12

Study Area (sq. mi.) 1.00



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No	o ☐ Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No	o ☐ Miles inundated?	
Critical Facilities Impacted	Yes 🗆 No	o ☐ Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$150,000	Study Sponsor:	City of Edcouch
Estimated year to start:	2023	Entity with Oversight	City of Edcouch
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





Detention Pond FME ID: 151000265

FME Description Construction of detention pond to maintain and regulate flows from the City to the County system.							
Study Type □ Flood risk modeling/mapping □ Flood mitigation study		lternative Analysis asibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering				
Study Area							
County/ Counties Hidalgo							
HUC 8							
HUC 12							
Study Area (sq. mi.) 1.00							
Emergency Need Yes ✓ No□							
Known Flood Risk History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No				
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$750,000 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Edcouch City of Edcouch Yes ✓ No □				
Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓							



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





Ditch Widening FME ID: 151000266

FME Description Construction of ditch widening to increase drainage capacity prior to reaching County drainage system.							
Study Type □ Flood risk modeling/mapping □ Flood mitigation study		Alternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering				
Study Area							
County/ Counties Hidalgo							
HUC 8							
HUC 12							
Study Area (sq. mi.) 1.00							
Emergency Need Yes ✓ No □							
Known Flood Risk History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No				
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$1,200,000 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Edcouch City of Edcouch Yes ✓ No □				
Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓							



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





Drainage Infrastructure Improvements FME ID: 151000267

FME Description Upgrades to the City drainage system to convey required flows and alleviate flooding based on the masterplan.							
Study Type □ Flood risk modeling/mappin □ Flood mitigation study	ıg		Alternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering			
Study Area							
County/ Counties Hidalgo)						
HUC 8							
HUC 12							
Study Area (sq. mi.) 1.00							
Emergency Need Yes ✓ No □							
Known Flood Risk History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:		No □ No □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □			
Study Costs Total Cost:	\$1 5	500,000	Study Sponsor:	City of Edcouch			
Estimated year to start: Time to complete? Funding Dedicated?	y±,3	2023 2025	Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Edcouch Yes ✓ No □			
Study identified as a Yes □ No ✓	gap by	Regio	on 15 Regional Flood Pla	anning Group (RFPG)			



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000268

FME Description

NM-104

NM-104

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Ш	Floor	d risi	c mod	leling/	mapping	

 $\hfill \square$ Flood mitigation study

Alternative Analysis
Feasibility Assessments

☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

County/ Counties Hidalgo

HUC8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes \checkmark No \square Population at Risk

Roadways flooded Yes \checkmark No \square

Critical Facilities Impacted Yes \square No \square

Notes:



Frequency of flooding: # of structures inundated Miles inundated?

Agricultural Land impacted Yes \square No \square

Study Costs

Total Cost:	\$192,800	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





NM-112 FME ID: 151000269

FME Description

NM-112

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	Flood	risk	modeling/	mapping
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 $\hfill\Box$ Flood mitigation study

Alternative Analysis
Feasibility Assessments

☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

County/ Counties Hidalgo

HUC8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆



Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$621,841.69	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000270

City of Alamo - Original Town Site Drainage Improvements

FME Description

Provide drainage (bar ditch or curb and gutter) for original Alamo Town site

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☐ Flood risk modeling/mapping	Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Preliminary Engineering

Study Area

County/ Counties Hidalgo

HUC8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost:	\$838,089	Study Sponsor:	City of Alamo
Estimated year to start:	2023	Entity with Oversight	City of Alamo
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





City of Alton - Calichera Project FME ID: 151000271

FME Description

Create a retention pond system from existing caliche pits and connect the pits to the Hidalgo County Drainage District No.1 MDS. One 1 pit to be used as a detention pond

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☐ Flood risk modeling/mapping	Alternative Analysis	 Flood preparedness studies
☐ Flood mitigation study	Feasibility Assessments	✓ Preliminary Engineering

Study Area

County/ Counties Hidalgo
HUC 8

Study Area (sq. mi.) 1.00

HUC 12

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost:	\$1,998,508	Study Sponsor:	City of Alton
Estimated year to start:	2023	Entity with Oversight	City of Alton
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000272

City of Alton - Alton Drainage System Connection

FME Description

Connect City of Alton's drainage system to the Hidalgo County Drainage District No.1 Master Drainage System (MDS)

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- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- Alternative AnalysisFeasibility Assessments
- ☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

County/ Counties Hidalgo

HUC8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

emergency need

Known Flood Risk

History of Flooding?
Population at Risk
Roadways flooded
Critical Facilities Impacted
Notes:

Yes ✓ No□

Yes ✓ No □ Yes □ No □ Frequency of flooding:
of structures inundated
Miles inundated?

Agricultural Land impacted Yes
No

Study Costs

Total Cost: \$1,463,284 Study Sponsor: City of Alton Estimated year to start: 2023 Entity with Oversight City of Alton Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)





Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





City of Donna - North Donna Drainage Improvement

FME ID: 151000273

FME Description

Increase Hutto & South Rd. drain ditch capacity and create drainage for West Scobey Rd.

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☐ Flood risk modeling/mapping	Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Preliminary Engineering

Study Area

County/ Counties Hidalgo

HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆 No 🗆	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$4,905,850	Study Sponsor:	City of Donna
Estimated year to start:	2023	Entity with Oversight	City of Donna
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000274

City of Donna - Donna - Hidalgo County Drainage District No.1 System Connection

FME Description Connect existing drainage line	o Hidalgo	County D	rainage District No.1 System	
Study Type				
☐ Flood risk modeling/mapping☐ Flood mitigation study	B		Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area				
County/ Counties Hidalgo				
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need				
Yes ✓ No 🗆				
Known Flood Risk				
History of Flooding? Population at Risk	Yes ✓	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded	Yes ✓	No 🗆	Miles inundated?	
Critical Facilities Impacted Notes:	Yes 🗆	No 🗆	Agricultural Land impacted	Yes □ No □

Study Costs

Total Cost:	\$805,134	Study Sponsor:	City of Donna
Estimated year to start:	2023	Entity with Oversight	City of Donna
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes		No	✓
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Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





Flood Mitigation Evaluations

City of Hidalgo - Hidalgo Drainage Study

Fact Sheet

☐ Flood preparedness studies

✓ Preliminary Engineering

FME ID: 151000275

FME Description

Drainage Engineering Study

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

Study Area

County/ Counties Hidalgo

HUC8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ Frequency of flooding: No 🗆 Population at Risk # of structures inundated Roadways flooded No 🗆 Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □ Notes:

Study Costs

Total Cost: \$618,730 Study Sponsor: City of Hidalgo Estimated year to start: **Entity with Oversight** City of Hidalgo 2023 Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No 🗆 Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

☐ Alternative Analysis

☐ Feasibility Assessments



Flood Mitigation Evaluations Fact Sheet

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remove		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain



Yes □ No ✓



Flood Mitigation Evaluations

Fact Sheet

City of Hidalgo - Northern Hidalgo Drainage FME ID: 151000276

Kellel			
FME Description Widen existing drain ditches and	d acquire more ROW	/ for the expansion to the USIBWC F	loodway
Study Type □ Flood risk modeling/mapping □ Flood mitigation study		Alternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area County/ Counties Hidalgo			
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No 🗆			
Known Flood Risk			
History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$618,730 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Hidalgo City of Hidalgo Yes ✓ No □

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations Fact Sheet

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remove		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
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	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain



Yes □ No ✓



Flood Mitigation Evaluations

Fact Sheet

City of La Joya - City of La Joya back flow / river FME ID: 151000277

control			
FME Description Create means of controlling the	Rio Grande by use	of backflow preventer near rail line a	and Old Military Highway.
Study Type □ Flood risk modeling/mapping		Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study		Feasibility Assessments	✓ Preliminary Engineering
Study Area County/ Counties Hidalgo HUC 8 HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No 🗆			
Known Flood Risk History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$20,751 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of La Joya City of La Joya Yes ✓ No □

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Flood Mitigation Evaluations Fact Sheet

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remove		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Flood Mitigation Evaluations

Fact Sheet

City of La Villa - Phase II - La Villa Detention FME ID: 151000278

Project			
FME Description Complete Phase II of the La Villa	Regional Detention	n Project to allow for detention and i	improved detention ditches
Study Type □ Flood risk modeling/mapping □ Flood mitigation study		Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area County/ Counties Hidalgo HUC 8 HUC 12 Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No 🗆			
Known Flood Risk History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$5,837,934 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of La Villa City of La Villa Yes ✓ No □

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



Flood Mitigation Evaluations
Fact Sheet

	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
Wa	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remove		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain		management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





ES-102 FME ID: 151000279

E3-102					
FME Description ES-102	n				
Study Type					
☐ Flood risk modeling☐ Flood mitigation stu				Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area					
County/ Counties	Hidalgo				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Ne	ed				
Yes ✓ No 🗆					
Known Flood R	isk				
History of Flooding? Population at Risk		Yes ✓	No □	Frequency of flooding: # of structures inundated	
Roadways flooded		Yes ✓	No 🗆	Miles inundated?	
Critical Facilities Impa Notes:	cted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost:		\$8,	820,196	Study Sponsor:	City of Edinburg
Estimated year to star Time to complete?	t:		2023 2025	Entity with Oversight Included in a CIP or other plan?	City of Edinburg Yes ✓ No □
Funding Dedicated?		Yes [(Potential) Source of Funding	165 - 110 -
Study identified Yes □ No ✓	d as a g	gap by	/ Regio	on 15 Regional Flood Pla	anning Group (RFPG)



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osec	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





☐ Flood preparedness studies

✓ Preliminary Engineering

Yes 🗆 No 🗆

SM-101 FME ID: 151000280

□ Alternative Analysis

☐ Feasibility Assessments

FME Description

SM-101

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

Study Area

County/ Counties Hidalgo

HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted

Yes ✓ No 🗆

Yes ✓ No □ Yes □ No □ Frequency of flooding: # of structures inundated Miles inundated?

Agricultural Land impacted

CONTROL STATES

Study Costs

Notes:

Total Cost: \$440,020 Study Sponsor: City of Edinburg Estimated year to start: 2023 Entity with Oversight City of Edinburg Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓

Page 1 of 2



Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osec	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000281 MC-101

FME Description

MC-101

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

Study Area

County/ Counties Hidalgo

HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

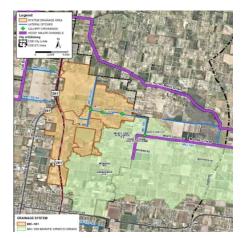
Known Flood Risk

History of Flooding? Yes ✓ No 🗆 Population at Risk Roadways flooded No 🗆 Critical Facilities Impacted Yes □ No □ Notes:

□ Alternative Analysis

☐ Feasibility Assessments

☐ Flood preparedness studies ✓ Preliminary Engineering



Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted Yes 🗌 No 🗌

Study Costs

Total Cost: \$192,800 Study Sponsor: City of Edinburg Estimated year to start: Entity with Oversight 2023 City of Edinburg Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No 🗆 Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000282

Los Indios Diversion

FME Description

Los Indios Diversion

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

Study Area

County/ Counties Cameron

HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes Population at Risk
Roadways flooded Yes Critical Facilities Impacted Yes Notes:

Yes ✓ No 🗆

Yes ✓ No 🗆

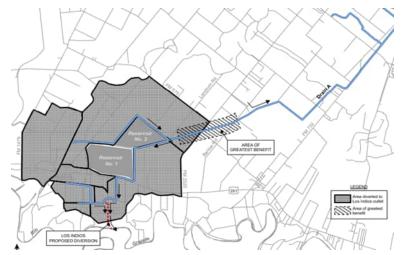
Yes 🗆 No 🗆

☐ Alternative Analysis

☐ Feasibility Assessments

☐ Flood preparedness studies

✓ Preliminary Engineering



Frequency of flooding: # of structures inundated

Miles inundated?

Agricultural Land impacted Yes

No

Study Costs

Total Cost: \$2,900,000 Study Sponsor: Cameron County Drainage District No. 3 Estimated year to start: 2023 Entity with Oversight Cameron County Drainage District No. 3 Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





☐ Flood preparedness studies✓ Preliminary Engineering

No 🗆

Drain A Diversion FME ID: 151000283

☐ Alternative Analysis

☐ Feasibility Assessments

FME Description

Drain A Diversion from Main Drain to Rio Grande to allow greater conveyance through system.

CTILAN	IVA
Study	IVDC

Ш	Floor	d ris	sk	mod	eling/	map	ping

 $\ \square$ Flood mitigation study

Study Area

County/ Counties Cameron

HUC8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No □	Frequency of flooding:	
Population at Risk			# of structures inundated	
Roadways flooded	Yes ✓	No □	Miles inundated?	
Critical Facilities Impacted	Yes 🗆	No □	Agricultural Land impacted	Yes 🗆
Notes:				

Study Costs

Total Cost:	\$3,100,000	Study Sponsor:	Cameron County Drainage District No. 3
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No. 3
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000284

Drain D C	hannel	Improve	ments
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FME Descriptio Drain D Channel Impro					
Study Type □ Flood risk modeling, □ Flood mitigation stu				Alternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area County/ Counties	Cameron				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Nee Yes ✓ No □ Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impac	isk	Yes ✓ Yes ✓ Yes □	No 🗆	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Notes:					
Study Costs Total Cost: Estimated year to start Time to complete? Funding Dedicated?	t:	\$3,885 Yes	5,584.34 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Cameron County Drainage District No. 3 Cameron County Drainage District No. 3 Yes ✓ No □
Study identified Yes □ No ✓	d as a g	ap by	/ Regio	n 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		



Yes □ No ✓



Flood Mitigation Evaluations
Fact Sheet

FME ID: 151000285

City of Mercedes - Drainage System Improvements for the City of Mercedes

improvements for the	City	OI IVIC	recues	
ME Description Mercedes Park, Mercedes south of Mercedes	east qua	d, HCCIDI	No.9 Later 19 and HCCIDNo.9 Anacui	tas drainage improvements for the City of
Study Type				
☐ Flood risk modeling/mapping☐ Flood mitigation study			Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area County/ Counties Hidalgo				
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need Yes ✓ No 🗆				
Known Flood Risk				
Population at Risk	Yes ✓ Yes ✓		Frequency of flooding: # of structures inundated Miles inundated?	
Critical Facilities Impacted Notes:	Yes 🗆	_	Agricultural Land impacted	Yes □ No □
Study Costs				
Total Cost: Estimated year to start: Time to complete? Funding Dedicated?		400,000 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	· · · · · ·
Study identified as a g	ap by	/ Regio	on 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





Flood Mitigation Evaluations

Fact Sheet FME ID: 151000286

Floodway Pump Stations (Cantu, Main, Parker, Thompson & Adams Gardens)

FME Description

Floodway Pump Stations (Cantu, Main, Parker, Thompson & Adams Gardens)

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Feasibility Assessments
- ☐ Flood preparedness studies ✓ Preliminary Engineering

Study Area

County/ Counties Cameron

HUC8

HUC 12

Study Area (sq. mi.) 1.00



Emergency Need

Yes ✓ No□

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆 No 🗆	Agricultural Land impacted	Yes 🗆 No 🗆
Notes:			

Study Costs

Total Cost:	\$2,243,867.75	Study Sponsor:	Cameron County Drainage District No. 6
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No. 6
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		



Yes □ No ✓



Flood Mitigation Evaluations Fact Sheet

EME ID: 151000387

Main Canal Piping		FME II	D: 151000287
FME Description Main Canal Piping			
Study Type ☐ Flood risk modeling/mapping ☐ Flood mitigation study		ternative Analysis asibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area County/ Counties Cameror	1		
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No □			
Known Flood Risk History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$7,296,960.00 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Cameron County Drainage District No. 6 Cameron County Drainage District No. 6 Yes ✓ No □
Study identified as a	gap by Regior	n 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





FME ID: 151000288

East Ditch Widening		FME II	D: 151000288
FME Description East Ditch Widening			
Study Type □ Flood risk modeling/mapping	\sqcap 1	Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study		easibility Assessments	✓ Preliminary Engineering
Study Area County/ Counties Cameron	1		
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No□			
Known Flood Risk History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$1,703,520.00 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Cameron County Drainage District No. 6 Cameron County Drainage District No. 6 Yes ✓ No □
CL I : I IIIC I	I D :	1ED : [E] [D]	: (DEDC)

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes	No	✓



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





FME ID: 151000289

City of Peñitas - Peñitas Drain

FME Descriptio Install drainage infrast		r various	areas ins	ide the City of Penitas	
Study Type					
☐ Flood risk modeling,☐ Flood mitigation stu			☐ Alternative Analysis☐ Feasibility Assessments		☐ Flood preparedness studies✓ Engineering Project Planning
Study Area					
City/ Cities	Peñitas				
County/ Counties	Hidalgo				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Nee Yes ✓ No □	ed				
Known Flood R	isk				
History of Flooding? Population at Risk Roadways flooded		Yes ✓ Yes ✓	No □	Frequency of flooding: # of structures inundated Miles inundated?	
Critical Facilities Impac Notes:	cted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost: Estimated year to start Time to complete? Funding Dedicated?	::	\$5,477 Yes	7,300.00 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Peñitas City of Peñitas Yes ✓ No □
Study identified	d as a g	gap by	/ Regio	on 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Flood Mitigation Evaluations

FME ID: 151000290

Fact Sheet

City of Peñitas - Peñitas Berm

FME Description Berm or intake structure between	en irrigation canals to	protect neighborhoods	
Study Type ☐ Flood risk modeling/mapping ☐ Flood mitigation study		ternative Analysis asibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area County/ Counties Hidalgo HUC 8 HUC 12 Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No □			
Known Flood Risk History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$1,635,615.30 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Drainage District #1 Hidalgo County Drainage District #1 Yes ✓ No □
Study identified as a g	gap by Regior	n 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Flood Mitigation Evaluations

Fact Sheet

City of Peñitas - Peñitas Drainage Infrastructure FME ID: 151000291

FME Descriptio Create drainage ditch t		eñitas are	a		
Study Type					
☐ Flood risk modeling/☐ Flood mitigation stu	–			Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area					
County/ Counties	Hidalgo				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Nee Yes ✓ No □	ed				
Known Flood Ri	isk				
History of Flooding? Population at Risk Roadways flooded Critical Facilities Impac Notes:	cted		No 🗆	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No
Study Costs					
Total Cost: Estimated year to start Time to complete? Funding Dedicated?	t:		7,536.00 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Drainage District #1 Hidalgo County Drainage District #1 Yes ✓ No □
Study identified Yes □ No ✓	d as a g	gap by	Regio	on 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations Fact Sheet

City of Pharr - Pharr Detention Pond Study FME ID: 151000292

Orcy Of Fridity	TIGIT D	CtCIII		ona ocaay	
FME Description Complete drainage students		ention po	ond(s) for	the City of Pharr	
Study Type ☐ Flood risk modeling				Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation stu	ıdy			Feasibility Assessments	✓ Preliminary Engineering
Study Area					
City/ Cities	Pharr				
County/ Counties	Hidalgo				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Neo	ed				
Known Flood R	isk				
History of Flooding? Population at Risk Roadways flooded	non.	Yes ✓		Frequency of flooding: # of structures inundated Miles inundated?	
Critical Facilities Impa Notes:	cted	Yes ✓ Yes □		Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost: Estimated year to star Time to complete?	t:	\$2,293	1,566.00 2018 2020	Study Sponsor: Entity with Oversight Included in a Hazard Mitigation	City of Pharr City of Pharr Yes ✓ No □
Funding Dedicated?		Yes 🗆	No✓	Action Plan or other plan? (Potential) Source of Funding	General Fund; HMGP
Study identifie	d as a g	gap by	/ Regio	on 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





☐ Flood preparedness studies

✓ Engineering Project Planning

FME ID: 151000293

Parker Drain regional detention facility

FME Description

Parker Drain regional detention facility

Study Type

Study Area

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

_,

County/ Counties Cameron

HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?
Population at Risk
Roadways flooded
Critical Facilities Impacted

es ✓ No 🗆

Yes ✓ No □ Yes □ No □ Frequency of flooding:

of structures inundated Miles inundated?

Agricultural Land impacted

Yes □ No □

Study Costs

Notes:

Total Cost: \$11,893,125.00 Study Sponsor: Cameron County Drainage District No. 6 Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Yes \checkmark No \Box (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓

	PROPOSED PECTOUR DETENTION PROPERTY us GAPY of ARTHUR
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in at the first	s rect.

□ Alternative Analysis

☐ Feasibility Assessments



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





FME ID: 151000294

Tio Cand	Lake	Pump	Station

FME Description Tio Cano Lake Pump Sta					
Study Type ☐ Flood risk modeling/i ☐ Flood mitigation stud				Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
.,,	Cameron				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Nee Yes ✓ No 🗆	d				
Known Flood Ris	sk				
History of Flooding? Population at Risk Roadways flooded Critical Facilities Impact Notes:		Yes ✓ Yes ✓ Yes □	No 🗆	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No
Study Costs					
Total Cost: Estimated year to start: Time to complete? Funding Dedicated?		\$2,573 Yes	3,100.00 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Cameron County Drainage District No. 6 Cameron County Drainage District No. 6 Yes ✓ No □
Study identified Yes □ No ✓	as a g	ap by	/ Regio	on 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





FME ID: 151000295

City of San Juan - San Juan Downtown Revitalization Project Phase I, II and III

FME Description

Install new curb inlets, grate inlets, storm drain manholes, and pipes, then connect new system to existing City storm sewer system

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STILL	11/	l v/r	$^{\circ}$
Stud	ıy ı	Ιyμ	ľ

Flood	l risk	modeling	/mapping

☐ Flood mitigation study

☐ Alternative Analysis☐ Feasibility Assessments

☐ Flood preparedness studies✓ Preliminary Engineering

Study Area

City/ Cities Pharr

County/ Counties Hidalgo

HUC8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$2,604,461.00 Study Sponsor: City of San Juan Estimated year to start: 2023 Entity with Oversight City of San Juan Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





FME ID: 151000296

Donna Irrigation District - FM 493 Ditch Rehabilitation / Capacity Improvements

FME Description

Increase capacity of drainage/irrigation ditch on FM493 south of Calle Chaparral

SILION	1 \ / n 🗅
Study	1 1 1 1 1

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

Study Area

County/ Counties Hidalgo

HUC8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □

Population at Risk

Roadways flooded Yes ✓ No □

Critical Facilities Impacted Yes □ No □

Notes:

☐ Alternative Analysis☐ Feasibility Assessments

☐ Flood preparedness studies✓ Engineering Project Planning



Frequency of flooding:
of structures inundated
Miles inundated?
Agricultural Land impacted Yes
No

Study Costs

Total Cost: \$460,479.00 Study Sponsor: Donna Irrigation District Estimated year to start: 2023 Entity with Oversight Donna Irrigation District Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □				
	Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as Yes ✓ No □ a benefit cost ratio or the number of structures the project removes from the 100-year floodplain?						
Rel	ated Goals						
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards				
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan				
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region				
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list				
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings				
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects				
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger				
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure				
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association				
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement				
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain				

RFPG Recommended





FME ID: 151000297

Engleman Irrigation District - FM 493 N - FM 1925 Ditch Rehab

FME Description

Drainage ditch improvement along FM 493 North & FM 1925

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- Alternative AnalysisFeasibility Assessments
- ☐ Flood preparedness studies✓ Engineering Project Planning

Study Area

County/ Counties Hidalgo

HUC8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆



Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆 No 🗆	Agricultural Land impacted	Yes 🗆 No
Notes:			

Study Costs

Total Cost:	\$460,479.00	Study Sponsor:	Engleman Irrigation District
Estimated year to start:	2023	Entity with Oversight	Engleman Irrigation District
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations
Fact Sheet

gui	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





☐ Flood preparedness studies

√ Flood Proofing

Engleman Irrigation District - FM 493 - FM 1925 FME ID: 151000298 Pump Rehab

FME Description

Rehabilitation of pumps for flood relief and to protect Colonias near FM 493 & FM 1925 (2 portable 175hp pumps)

☐ Alternative Analysis

☐ Feasibility Assessments

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- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

Study Area

County/ Counties Hidalgo

HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?
Population at Risk
Roadways flooded
Critical Facilities Impacted
Notes:

Yes ✓ No 🗆

Yes ✓ No □ Yes □ No □ Frequency of flooding: # of structures inundated Miles inundated?

Agricultural Land impacted Yes
No



Study Costs

Total Cost: \$126,500.00 Study Sponsor: Engleman Irrigation District Estimated year to start: 2023 Entity with Oversight Engleman Irrigation District Time to complete? 2025 Included in a CIP or other plan? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		



Yes □ No ✓



Flood Mitigation Evaluations

FME ID: 151000299

Fact Sheet

Hidaigo and Cameron Counties irrigation
District No. 9 - USIBWC Main Floodway Outfall
Canal Improvements North

FME Description Improve outfall capacity		ening th	e USIBW(C Main Floodway Outfall Canal	
Study Type					
☐ Flood risk modeling/I☐ Flood mitigation stud	–		☐ Alternative Analysis☐ Feasibility Assessments		☐ Flood preparedness studies✓ Engineering Project Planning
Study Area					
County/ Counties	Hidalgo				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Nee	d				
Yes ✓ No 🗆					
Known Flood Ris	sk				
History of Flooding? Population at Risk		Yes ✓	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded		Yes ✓		Miles inundated?	
Critical Facilities Impact Notes:	ted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost:		\$7,31	1,635.00	Study Sponsor:	Hidalgo and Cameron Counties Irrigation District No. 9
Estimated year to start:			2023	Entity with Oversight	Hidalgo and Cameron Counties Irrigation District No. 9
Time to complete?			2025	Included in a CIP or other plan?	Yes ✓ No □
Funding Dedicated?		Yes	No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



RFPG Recommended

Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB Yes ✓ No ☐ guidelines?									
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov									
Rel	ated Goals									
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region							
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list							
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings							
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects							
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger							
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure							
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association							
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance							
	repeated flooding events through property buyouts		penalties; and who regulate development in the future conditions floodplain							



Yes □ No ✓



Flood Mitigation Evaluations

FME ID: 151000300

Fact Sheet

Hidalgo and Cameron Counties Irrigation
District No. 9 - New Auxiliary Canal to USIBWC
Main Floodway

FME Description Proposed auxiliary canal from	ı USIBWC Ma	iin Flood	way to HCCIDNo.9 irrigation line	
Study Type ☐ Flood risk modeling/mappi ☐ Flood mitigation study	ng		Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area County/ Counties Hidalg	go			
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need Yes ✓ No 🗆				
Known Flood Risk				
History of Flooding? Population at Risk Roadways flooded	Yes ✓ Yes ✓	No □	Frequency of flooding: # of structures inundated Miles inundated?	
Critical Facilities Impacted Notes:	Yes □	No 🗆	Agricultural Land impacted	Yes No
Study Costs				
Total Cost:	\$9,314	,528.00	Study Sponsor:	Hidalgo and Cameron Counties Irrigation District No. 9
Estimated year to start:		2023	Entity with Oversight	Hidalgo and Cameron Counties Irrigation District No. 9
Time to complete? Funding Dedicated?	Yes 🗆	2025 No ✓	Included in a CIP or other plan? (Potential) Source of Funding	Yes ✓ No □

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations Fact Sheet

Hidalgo County Drainage District No.1 - F-14-01 FME ID: 151000301

FME Description Create new F-14-01 drain ditch	n to provide	drainage	relief for the Northern Alamo area,	north of US-83 and west of FM1423
Study Type ☐ Flood risk modeling/mappin ☐ Flood mitigation study	g		Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area County/ Counties Hidalgo)			
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need Yes ✓ No□				
Known Flood Risk				
History of Flooding? Population at Risk	Yes ✓		Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ Yes □	No □ No □	Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs				
Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$2,916 Yes □	,826.00 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Drainage District No.1 Hidalgo County Drainage District No.1 Yes ✓ No □
Study identified as a	gap by	Regio	on 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations
Fact Sheet

FME ID: 151000302

Hidalgo County Drainage District No.1 - Raymondville Drain & Connecting Laterals

FME Descriptio		ourg Lake	to conne	ct to existing Raymondville Drain	
Study Type					
☐ Flood risk modeling ☐ Flood mitigation stu				Alternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area					
County/ Counties	Hidalgo				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Nee Yes ✓ No □	ed				
Known Flood R	isk				
History of Flooding?		Yes ✓	No □	Frequency of flooding:	
Population at Risk Roadways flooded		Yes ✓	No □	# of structures inundated Miles inundated?	
Critical Facilities Impac Notes:	cted	Yes □	No 🗆	Agricultural Land impacted	Yes □ No □
Study Costs					
		\$265,000	,000.00 2023	Study Sponsor: Entity with Oversight	Hidalgo County Drainage District No.1
Estimated year to start Time to complete? Funding Dedicated?	Yes □	2025	Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Drainage District No.1 Yes ✓ No □	
Study identified	d as a g	gap by	Regio	on 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations Fact Sheet

Hidalgo County Drainage District No.1 - J-06-00 FME ID: 151000303

FME Description		o provide	drainage r	elief for the Northwest Edinburg ar	ea, west of Edinburg Lake
Study Type					
☐ Flood risk modeling/mapping☐ Flood mitigation study				Iternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area					
County/ Counties	Hidalgo				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Never Yes ✓ No □	ed				
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:		Yes ✓ Yes ✓ Yes □	No □ No □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?	rt:	\$6,124 Yes	4,767.40 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Drainage District No.1 Hidalgo County Drainage District No.1 Yes ✓ No □
Study identifie	d as a g	gap by	Regio	n 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended



Funding Dedicated?



Flood Mitigation Evaluations

FME ID: 151000304

Fact Sheet

Hidalgo County Precinct 1 - Floodway Pumps

FME Description Repair and replacement of pum	ps along the floodw	ay at Mile 12 1/3, Mile 14 1/2 and N	/ile 17 1/2
			•
Study Type			
☐ Flood risk modeling/mapping☐ Flood mitigation study		lternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area			
County/ Counties Hidalgo			
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need			
Yes ✓ No 🗆			
Known Flood Risk			
History of Flooding? Population at Risk	Yes ✓ No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted Notes:	Yes □ No □	Agricultural Land impacted	Yes □ No □
Study Costs			
Total Cost:	\$94,264.00	Study Sponsor:	=
Estimated year to start: Time to complete?	2023 2025	Entity with Oversight Included in a CIP or other plan?	Hidalgo County Precinct 1 Yes ✓ No □

Yes □ No ✓

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓

(Potential) Source of Funding



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Hidalgo County Precinct 1 - Monte Alto FME ID: 151000305

FME Description Alleviate subdivision fl		creating	a ditch.		
Study Type					
☐ Flood risk modeling☐ Flood mitigation stu				Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area					
County/ Counties	Hidalgo				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Nee Yes ✓ No 🗆	ed				
Known Flood R	isk				
History of Flooding? Population at Risk Roadways flooded		Yes ✓		Frequency of flooding: # of structures inundated Miles inundated?	
Critical Facilities Impac Notes:	cted	Yes ✓ Yes □	_		Yes □ No □
Study Costs					
Total Cost: Estimated year to star Time to complete? Funding Dedicated?	t:		1,452.00 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Precinct 1 Hidalgo County Precinct 1 Yes ✓ No □
Study identified	d as a g	gap by	/ Regio	on 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





FME ID: 151000306

Hidalgo County Precinct 2 - Floodway Pump Station Upgrade

Station Upgrade				
FME Description Increase pump size for draining	into Floo	dway		
Study Type				
☐ Flood risk modeling/mapping☐ Flood mitigation study			☐ Alternative Analysis☐ Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area				
County/ Counties Hidalgo				
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need				
Yes ✓ No 🗆				
Known Flood Risk				
History of Flooding? Population at Risk	Yes ✓	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded	Yes ✓	_	Miles inundated?	
Critical Facilities Impacted Notes:	Yes 🗆	No 🗆	Agricultural Land impacted	Yes No

Study Costs

Total Cost:	\$150,091.00	Study Sponsor:	Hidalgo County Precinct 2
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Precinct 2
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes		No	✓
1 5	1 1	INU	•



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Hidalgo County Precinct 3 - 4 Mile Line FME ID: 151000307

FME Description Improve drainage syst		ing into \	Vest Maiı	n 3.	
Study Type					
☐ Flood risk modeling☐ Flood mitigation stu				Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area					
County/ Counties	Hidalgo				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Neo Yes ✓ No 🗆	ed				
Known Flood R	isk				
History of Flooding? Population at Risk		Yes ✓	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impa Notes:	cted	Yes √ Yes □	-	Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost: Estimated year to star Time to complete? Funding Dedicated?	t:		0,901.00 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Precinct 3 Hidalgo County Precinct 3 Yes ✓ No □
Study identified Yes □ No ✓	d as a g	gap by	Regio	on 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations Fact Sheet

Hidalgo County Precinct 3 - Palm Dr. FME ID: 151000308

FME Description Improve drainage system outfall	ing into \	West Mair	າ 3.	
Study Type □ Flood risk modeling/mapping		П	Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study			Feasibility Assessments	✓ Preliminary Engineering
Study Area				
County/ Counties Hidalgo				
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need Yes ✓ No□				
ies / NO 🗆				
Known Flood Risk				
History of Flooding? Population at Risk	Yes ✓	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impacted	Yes ✓ Yes □	-	Miles inundated? Agricultural Land impacted	Voc. D. No.D.
Notes:	res 🗆	NO 🗆	Agricultural Land Impacted	Yes □ No □
Study Costs				
Total Cost:	\$1,108	3,196.00	Study Sponsor:	Hidalgo County Precinct 3
Estimated year to start:		2023 2025	Entity with Oversight Included in a CIP or other plan?	Hidalgo County Precinct 3 Yes ✓ No □
Time to complete? Funding Dedicated?	Yes 🗆	2025 No √	(Potential) Source of Funding	TES V INU L
Study identified as a §	gap by	/ Regio	on 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Hidalgo County Precinct 3 - Moorefield Rd. FME ID: 151000309

FME Description Improve drainage systems		ling into V	Vest Main	3.	
Study Type					
☐ Flood risk modeling☐ Flood mitigation stu				Alternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area					
County/ Counties	Hidalgo				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Never Yes ✓ No □	ed				
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:		Yes ✓ Yes ✓ Yes □	No 🗆 No 🗆	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost: Estimated year to star Time to complete? Funding Dedicated?	t:	\$603 Yes	3,989.00 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Precinct 3 Hidalgo County Precinct 3 Yes ✓ No □
Study identifie	d as a g	gap by	Regio	n 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Hidalgo County Precinct 3 - Mile 8 1/2 FME ID: 151000310

FME Description		ing into t	he Raym	ondville Drain	
Study Type					
☐ Flood risk modeling☐ Flood mitigation stu			Alternative AnalysisFeasibility Assessments		☐ Flood preparedness studies✓ Preliminary Engineering
Study Area					
County/ Counties	Hidalgo				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Nec	ed				
Known Flood R	isk				
History of Flooding? Population at Risk		Yes ✓		Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impac Notes:	cted	Yes ✓ Yes □	_	Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost: Estimated year to star Time to complete? Funding Dedicated?	t:		1,306.00 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Precinct 3 Hidalgo County Precinct 3 Yes ✓ No □
Study identified	d as a g	gap by	/ Regio	on 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations Fact Sheet

Hidalgo County Precinct 3 - Inspiration Rd FME ID: 151000311

indaigo county i reci		Шэрп	ration Na		
FME Description					
Improve drainage system outfal	ling into t	he Raym	ondville Drain		
Study Type					
☐ Flood risk modeling/mapping			Alternative Analysis	☐ Flood preparedness studies	
☐ Flood mitigation study			Feasibility Assessments	✓ Preliminary Engineering	
Study Area					
County/ Counties Hidalgo					
HUC 8					
HUC 12					
Study Area (sq. mi.) 1.00					
Emergency Need Yes ✓ No 🗆					
Known Flood Risk					
History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:		
Population at Risk Roadways flooded	Yes ✓	No 🗆	# of structures inundated Miles inundated?		
Critical Facilities Impacted Notes:	Yes 🗆	-		Yes □ No □	
Study Costs					
Total Cost: Estimated year to start:	\$5,014	1,031.00 2023	Study Sponsor: Entity with Oversight	= :	
Time to complete?		2025	Included in a CIP or other plan?	Yes ✓ No □	
Funding Dedicated?	Yes [No ✓	(Potential) Source of Funding		
Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)					



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations

Hidalgo County Precinct 4 - Alberta Drain Phase FME ID: 151000312

Fact Sheet

FME Description Create drainage for existing subdivisions to Alamo Lateral (Between Owassa and Alberta, bounds ~1 mile East of Tower						
Study Type ☐ Flood risk modeling/mapping ☐ Flood mitigation study		ternative Analysis asibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering			
Study Area County/ Counties Hidalgo						
HUC 8						
HUC 12						
Study Area (sq. mi.) 1.00						
Emergency Need Yes ✓ No□						
Known Flood Risk History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □			
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$2,147,544.80 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Precinct 4 Hidalgo County Precinct 4 Yes ✓ No □			
Study identified as a	gap by Regior	n 15 Regional Flood Pla	anning Group (RFPG)			



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Sullivan City - US 83 - FM 886 Drainage Improvements

FME ID: 151000313

FME Description

Improve drainage South of US 83 and West of FM 886, add storm drain through US 83 and curb and gutter for remaining

Study Type

- $\ \square$ Flood risk modeling/mapping
- ☐ Flood mitigation study

- Alternative AnalysisFeasibility Assessments
- ☐ Flood preparedness studies✓ Engineering Project Planning

Study Area

City/ Cities Sullivan City

County/ Counties Hidalgo

HUC 8 12110208

HUC 12 121102080900

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆 No 🗆	Agricultural Land impacted	Yes 🗆 No 🗆
Notes:			

Study Costs

Total Cost:	\$464,219.00	Study Sponsor:	Sullivan City
Estimated year to start:	2023	Entity with Oversight	Sullivan City
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop	oseo	d project has a negative effect, per TWDB Yes ✓ No □
_	delines? s the project recommended by the RFPG to be studied in order	for i	it to provide more project details, such as Yes ✓ No 🗆
	enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical		Increase the # of entities that adopt higher than NFIP- minimum standards Develop and maintain an operational stormwater asset
	facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





Cameron County Drainage District No.1 - Ditch FME ID: 151000314

FME Description

1 detention ponds

200 acre elevated detention pond with pump station

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- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Engineering Project Planning

Study Area

County/ Counties Cameron

HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?
Population at Risk
Roadways flooded
Critical Facilities Impacted
Notes:

Yes ✓ No □ Frequency of flooding:
of structures inundated
Yes ✓ No □ Miles inundated?
Yes □ No □ Agricultural Land impacted Yes □ No □

Study Costs

Total Cost: \$4,568,612.85 Study Sponsor: Cameron County Drainage District No.1
Estimated year to start: 2023 Entity with Oversight Cameron County Drainage District No.1
Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No □
Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓





Yes ✓ No 🗆

FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





City of Brownsville - North Airport Drainage FME ID: 151000315 improvements.

FME Description

Add detention facilities and improve outfalls

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- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- Alternative AnalysisFeasibility Assessments
- ☐ Flood preparedness studies✓ Engineering Project Planning

Study Area

City/ Cities Brownsville

County/ Counties Cameron

HUC 8

HUC 12

Study Area (sq. mi.) 1.00



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$2,529,275.00	Study Sponsor:	City of Brownsville
Estimated year to start:	2023	Entity with Oversight	City of Brownsville
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





FME ID: 151000316

City of South Padre Island - SPI White Sands Washout Prevention

FME Description

Develop temporary sea wall to minimize washout

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Engineering Project Planning

Study Area

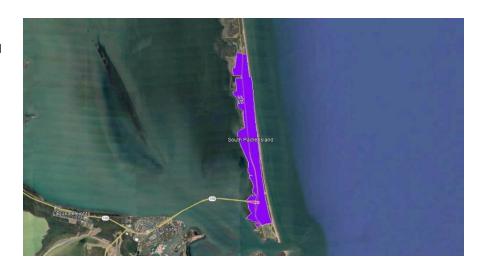
City/ Cities South Padre Island

County/ Counties Cameron

HUC8

HUC 12

Study Area (sq. mi.) 1.00



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$174,750.00	Study Sponsor:	City of South Padre Island
Estimated year to start:	2023	Entity with Oversight	City of South Padre Island
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





City of South Padre Island - Addition of SPI FME ID: 151000317

FME Description

Study outfall needed between Sheraton/Sea Vista

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Outfall

- ☐ Flood risk modeling/mapping
- $\hfill \square$ Flood mitigation study

- Alternative AnalysisFeasibility Assessments
- ☐ Flood preparedness studies✓ Engineering Project Planning

Study Area

City/ Cities South Padre Island

County/ Counties Cameron

HUC8

HUC 12

Study Area (sq. mi.) 1.00



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No 🗆	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆	No 🗆
Notes:					

Study Costs

Total Cost:	\$3,022,570.00	Study Sponsor:	City of South Padre Island
Estimated year to start:	2023	Entity with Oversight	City of South Padre Island
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





FME ID: 151000318

City of South Padre Island - SPI drainage study/identification of infrastructure improvements.

improvements.				
FME Description Identify drainage issues ar	nd develop stor	m sewer s	system and outfall for Gulf Blvd	
Study Type □ Flood risk modeling/ma □ Flood mitigation study	pping		Alternative Analysis Feasibility Assessments	 ☐ Flood preparedness studies ✓ Engineering Project Planning
Study Area	uth Padre Islan		edistility Assessificities	Engineering (Toject Flamming
County/ Counties Ca	meron			
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.0	00			
Emergency Need Yes ✓ No □				
Known Flood Risk	(
History of Flooding? Population at Risk Roadways flooded	Yes ✓	No 🗆	Frequency of flooding: # of structures inundated Miles inundated?	
Critical Facilities Impacted Notes:	Yes □	No □	Agricultural Land impacted	Yes □ No □
Study Costs				
Total Cost:		2022	Study Sponsor:	· · · · · ·
Estimated year to start: Time to complete?		2023 2025	Entity with Oversight Included in a CIP or other plan?	City of South Padre Island Yes ✓ No □
Funding Dedicated?	Yes [(Potential) Source of Funding	-

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations Fact Sheet

City of South Padre Island - Bayside outfall FME ID: 151000319

FME Description	on				
Design outfall into Lag	guna Madre S	. of Go	Cart Tra	nck.	
Study Type					
☐ Flood risk modeling	g/mapping			Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation stu				Feasibility Assessments	✓ Engineering Project Planning
Study Area					
City/ Cities	South Padre	e Islan	d		
County/ Counties	Cameron				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Ne	ed				
Yes ✓ No 🗆	Cu				
Known Flood R	lisk				
History of Flooding? Population at Risk	Y	es ✓	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded	Y	es ✓	No □	Miles inundated?	
Critical Facilities Impa Notes:	cted Y	'es □	No 🗆	Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost:		\$1,10	0,000.00	Study Sponsor:	City of South Padre Island
Estimated year to star	t:		2023	Entity with Oversight	City of South Padre Island
Time to complete? Funding Dedicated?		Yes [2025 □ No ✓	Included in a CIP or other plan? (Potential) Source of Funding	Yes ✓ No 🗆
Study identifie	d as a ga	p by	/ Regi	on 15 Regional Flood Pla	anning Group (RFPG)
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FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations Fact Sheet

FME ID: 151000320

Cameron County - SouthPoint/Reid Hope King/Villa Pancho Channel / Pump Station

FME Description		oump sta	ition requir	red to pump into river when levels a	are high
Study Type ☐ Flood risk modeling ☐ Flood mitigation stu				lternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area County/ Counties HUC 8 HUC 12 Study Area (sq. mi.)	Cameron				
Emergency Nec	ed				
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impac Notes:		Yes ✓ Yes ✓ Yes □	No □ No □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?	t:	\$4,197 Yes	7,256.25 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Cameron County Engineering Dept. Cameron County Engineering Dept. Yes ✓ No □
Study identified	d as a g	gap by	/ Regio	n 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

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	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
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RFPG Recommended





Cameron County Precinct No.1 - CCP1 Ditch
Reclaim A

FME ID: 151000321

FME Description

Reclaim/Repair/ Regrade ditch between Florida/Dockberry and Brownsville/FM 511

Study	INDA
Stuuv	IVDC

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Engineering Project Planning

Study Area

County/ Counties Cameron

HUC8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$1,060,620.00 Study Sponsor: Cameron County Precinct No.1 Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

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Rel	ated Goals		
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RFPG Recommended





FME ID: 151000322

Cameron County Drainage District No.1 - Ditch 2 detention ponds

FME Description

200 acre elevated detention pond with pump station

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- □ Alternative Analysis ☐ Feasibility Assessments
- ☐ Flood preparedness studies ✓ Engineering Project Planning

Study Area

County/ Counties Cameron

HUC8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No□

Known Flood Risk

History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:

Yes ✓ No 🗆 Yes □ No □

No 🗆

Yes ✓

Frequency of flooding: # of structures inundated Agricultural Land impacted Yes

No

Miles inundated?

Study Costs

Total Cost: \$4,568,612.85 Estimated year to start: 2023 Time to complete? 2025 Funding Dedicated? Yes □ No ✓

Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding

Cameron County Drainage District No.1 Cameron County Drainage District No.1

Yes ✓ No 🗆

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)





FME

Flood Mitigation Evaluations
Fact Sheet

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Rel	ated Goals		
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RFPG Recommended





City of Brownsville - FM802/HW48 Drainage Improvements

FME ID: 151000323

FME Description

Roadway and drainage improvement for industrial dist

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- Alternative AnalysisFeasibility Assessments
- ☐ Flood preparedness studies✓ Engineering Project Planning

Study Area

City/ Cities Brownsville

County/ Counties Cameron

HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆 No 🗆	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$413,887.34	Study Sponsor:	City of Brownsville
Estimated year to start:	2023	Entity with Oversight	City of Brownsville
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

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Rel	ated Goals		
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RFPG Recommended





City of Brownsville - Colonia Galaxia Outfall FME ID: 151000324

improvements.

FME Description

Addition of Pump station to pump water into Rio Grande

Study Type

- ☐ Flood risk modeling/mapping
- $\hfill \square$ Flood mitigation study

- Alternative AnalysisFeasibility Assessments
- ☐ Flood preparedness studies✓ Engineering Project Planning

Study Area

City/ Cities Brownsville

County/ Counties Cameron

HUC8

HUC 12

Study Area (sq. mi.) 1.00



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆 No 🗆	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$1,953,515.86	Study Sponsor:	City of Brownsville
Estimated year to start:	2023	Entity with Oversight	City of Brownsville
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

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RFPG Recommended





City of Brownsville - Central Blvd/Stovall Rd FME ID: 151000325 connection improvements

FME Description

Improve drainage system connecting Resaca

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- Alternative AnalysisFeasibility Assessments
- ☐ Flood preparedness studies✓ Engineering Project Planning

Study Area

City/ Cities Brownsville

County/ Counties Cameron

HUC 8

HUC 12

Study Area (sq. mi.) 1.00



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ 1	No 🗆	Frequency of flooding:	
Population at Risk			# of structures inundated	
Roadways flooded	Yes ✓ 1	No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆 🗈	No 🗆	Agricultural Land impacted	Yes □ No □
Notes:				

Study Costs

Total Cost:	\$667,391.79	Study Sponsor:	City of Brownsville
Estimated year to start:	2023	Entity with Oversight	City of Brownsville
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

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RFPG Recommended





FME ID: 151000326

Cameron County Drainage District No.1 - Cameron Park lateral improvements

FME Description

Clean, expand and define responsible party

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STIIC	\/	l \/r	۵۲
Stuc	ıyı	ιyト	

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

Study Area

County/ Counties Cameron

HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □

Population at Risk

Roadways flooded Yes ✓ No □

Critical Facilities Impacted Yes □ No □

Notes:

Yes ✓ No □ Frequency of flooding: # of structures inundated Yes ✓ No □ Miles inundated?

Agricultural Land impacted Yes ☐ No ☐

☐ Alternative Analysis☐ Feasibility Assessments

☐ Flood preparedness studies✓ Engineering Project Planning



Study Costs

Total Cost: \$2,918,075.00 Study Sponsor: Cameron County Drainage District No.1 Estimated year to start: 2023 Entity with Oversight Cameron County Drainage District No.1 Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

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	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended



Yes □ No ✓



Flood Mitigation Fvaluations

City of Los Fresnos - Los Fresnos S.E Outfall

riood iviitigation	Evaluation
	Fact Sheet

FME ID: 151000327

e flow			
	Alternative AnalysisFeasibility Assessments		☐ Flood preparedness studies✓ Engineering Project Planning
nos			
า			
Yes ✓	No 🗆	Frequency of flooding: # of structures inundated	
	-	Miles inundated? Agricultural Land impacted	Yes No
	2023 2025	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Los Fresnos City of Los Fresnos Yes ✓ No □
	Yes ✓ Yes □ \$2,145	Yes ✓ No □ Yes ✓ No □ Yes ✓ No □ Yes □ No □ \$2,145,533.75 2023	Alternative Analysis Feasibility Assessments No Yes ✓ No □ Frequency of flooding: # of structures inundated Yes ✓ No □ Miles inundated? Yes □ No □ Agricultural Land impacted \$2,145,533.75 Study Sponsor: 2023 Entity with Oversight 2025 Included in a CIP or other plan?

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



RFPG Recommended

Yes ✓ No 🗆

FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	osed	I project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remove		
Rel	ated Goals		
√	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





City of Rancho Viejo - FM 1732/Carmen Ave FME ID: 151000328

Crossing Improvements.

FME Description		32 to equalize	e flooding across roadway.	
Study Type ☐ Flood risk modeling ☐ Flood mitigation stu			ernative Analysis asibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area City/ Cities	Rancho Viejo			
County/ Counties	Cameron			
HUC 8				
HUC 12				
Study Area (sq. mi.)	1.00			
Emergency Nee	ed			
Known Flood R	isk			
History of Flooding? Population at Risk	Yes ✓	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impac Notes:	Yes ✓ cted Yes □	_	Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs				
Total Cost:	\$1,60	4,593.08	Study Sponsor:	City of Rancho Viejo

Total Cost:	\$1,604,593.08	Study Sponsor:	City of Rancho Viejo
Estimated year to start:	2023	Entity with Oversight	City of Rancho Viejo
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes	No	✓



FME

Flood Mitigation Evaluations
Fact Sheet

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	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
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RFPG Recommended





☐ Flood preparedness studies

✓ Engineering Project Planning

FME ID: 151000329

City of Mission – Flood Monitor

FME Description

Install flood levels besides major roadways for citizens.

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

Study Area

City/ Cities Mission

County/ Counties Hidalgo

HUC8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?
Population at Risk
Roadways flooded
Critical Facilities Impacted
Notes:

Yes ✓ No 🗆

Yes ✓ No □ Yes □ No □ Frequency of flooding: # of structures inundated

Miles inundated?

Agricultural Land impacted Yes \Box No \Box

Study Costs

Total Cost: \$5,000.00 Study Sponsor: City of Rancho Viejo Estimated year to start: 2023 Entity with Oversight City of Rancho Viejo Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

□ Alternative Analysis

☐ Feasibility Assessments





FME

Flood Mitigation Evaluations
Fact Sheet

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	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended



Estimated year to start:

Time to complete?

Funding Dedicated?

Yes □ No ✓



Flood Mitigation Evaluations Fact Sheet

City of Rancho Viejo - Rancho Viejo Outfall at US77 Expansion

FME ID: 151000330

Entity with Oversight City of Rancho Viejo

Yes ✓ No 🗆

Included in a CIP or other plan?

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

(Potential) Source of Funding

FME Description Drainage Improvement		crossing under US77. Expa	nsion of outlet nee	ded.
Study Type ☐ Flood risk modeling/	mapping	□ Alternative Analys	is	☐ Flood preparedness studies
☐ Flood mitigation stud	dy	☐ Feasibility Assessm	ients	✓ Engineering Project Planning
Study Area				
City/ Cities	Rancho Viejo			
County/ Counties	Cameron			
HUC 8				
HUC 12				
Study Area (sq. mi.)	1.00			
Emergency Nee Yes ✓ No □	ed			
Known Flood Ri	sk			
History of Flooding? Population at Risk	Yes ✓ I	# of stru	ency of flooding: ctures inundated	
Roadways flooded Critical Facilities Impact Notes:		-	Miles inundated? al Land impacted	Yes □ No □
Study Costs				
Total Cost:	\$2,901,	630.00	Study Sponsor:	City of Rancho Viejo

2023

2025



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





FME ID: 151000331

Cameron County Drainage District No.1 - Rancho Viejo Resaca Improvements.

•					
FME Description Dredge, improve Resace		e connec	tivity		
Study Type					
☐ Flood risk modeling/r☐ Flood mitigation stud				Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area					
County/ Counties	Cameron				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Nee	d				
Yes ✓ No 🗆					
Known Flood Ris	sk				
History of Flooding? Population at Risk		Yes ✓	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded	اء ما	Yes ✓	-	Miles inundated?	Vac 🗆 Na 🗆
Critical Facilities Impact Notes:	ea	Yes 🗆	No 🗆	Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost: Estimated year to start:		\$822	2,250.00	Study Sponsor: Entity with Oversight	Cameron County Drainage District No.1 Cameron County Drainage District No.1
Time to complete? Funding Dedicated?		Yes 🗆	2025 No ✓	Included in a CIP or other plan? (Potential) Source of Funding	Yes ✓ No 🗆
Study identified	as a g	ap by	/ Regi	on 15 Regional Flood Pla	anning Group (RFPG)
Yes □ No ✓	0	, ,)	-0.	<u> </u>	J (*** - 7



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Flood Mitigation Evaluations

FME ID: 151000332

Fact Sheet

Cameron County Precinct No.2 - CCP2 Ditch

Reclaim D				
FME Description Project 22 in Cam Co Digest Rec	Juest Forr	ns - Reclai	ming/Repairing/Regrading of ditch S	SW of rancho Viejo.
Study Type				
☐ Flood risk modeling/mapping☐ Flood mitigation study	:		Alternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area County/ Counties Cameron	n			
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need				
Yes ✓ No 🗆				
Known Flood Risk				
History of Flooding? Population at Risk	Yes ✓	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded	Yes ✓	-	Miles inundated?	
Critical Facilities Impacted Notes:	Yes □	No 🗆	Agricultural Land impacted	Yes □ No □
Study Costs				
Total Cost:	\$1,22	8,807.50	Study Sponsor:	Cameron County Precinct No.2
Estimated year to start:		2023	Entity with Oversight	Cameron County Precinct No.2
Time to complete?		2025	Included in a CIP or other plan?	Yes ✓ No 🗆

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓

(Potential) Source of Funding

Yes	NIO	√
yes	No	v

Funding Dedicated?



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations Fact Sheet

Cameron County Precinct No.2 - CCP2 Ditch Reclaim F

FME ID: 151000333

Reciaim E			
FME Description Project 22 in Cam Co Digest Req HW100	uest Forms - Reclaim	ing/Repairing/Regrading of ditch N	IW of Rancho Viejo Between FM1421 and
Study Type			
☐ Flood risk modeling/mapping☐ Flood mitigation study	☐ Alternative Analysis☐ Feasibility Assessments		☐ Flood preparedness studies✓ Engineering Project Planning
Study Area County/ Counties Cameror	1		
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No □			
Known Flood Risk			
History of Flooding? Population at Risk Roadways flooded	Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated?	Voc D. No D.
Critical Facilities Impacted Notes:	res 🗆 No 🗆	Agricultural Land impacted	Yes □ No □
Study Costs			
Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$748,912.50 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Cameron County Precinct No.2 Cameron County Precinct No.2 Yes ✓ No □
Study identified as a	gap by Regior	n 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
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RFPG Recommended





FME ID: 151000334

Clark Road Ditch Improvements

FME Description

Clark Road Ditch Improvements

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

Study Area

County/ Counties Cameron

HUC8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:

Yes ✓ No 🗆

No 🗆 Yes ✓

Yes □ No □

□ Alternative Analysis

☐ Feasibility Assessments

☐ Flood preparedness studies

✓ Preliminary Engineering



Frequency of flooding: # of structures inundated Miles inundated?

Agricultural Land impacted Yes
No

Study Costs

Total Cost: \$1,352,812.50 Study Sponsor: Cameron County Drainage District No. 6 Estimated year to start: 2023 **Entity with Oversight** Cameron County Drainage District No. 6 Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No 🗆 **Funding Dedicated?** Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osec	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000334

Clark Road Ditch Improvements

FME Descriptio Clark Road Ditch Impro					
Study Type	/manning		П	Alternative Analysis	☐ Flood preparedness studies
☐ Flood risk modeling/mapping☐ Flood mitigation study		☐ Feasibility Assessments			✓ Preliminary Engineering
Study Area					
County/ Counties	Cameron				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Nee Yes ✓ No 🗆	ed				
Known Flood R	isk				
History of Flooding? Population at Risk		Yes ✓	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impac Notes:	cted	Yes ✓ Yes □	_	Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost:		\$1,352,812.50		Study Sponsor:	Cameron County Drainage District No. 6
Estimated year to start Time to complete?	t:		2023 2025	Entity with Oversight Included in a CIP or other plan?	Cameron County Drainage District No. 6 Yes ✓ No □
Funding Dedicated?		Yes 🗆		(Potential) Source of Funding	-
Study identified Yes □ No ✓	d as a g	gap by	/ Regio	on 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000335 Cameron County Drainage District No.3 -Cameron County Drainage District No. 3 Drain

Expansion			
FME Description Expand capacity along Cameron	n County Drainage Distr	ict No. 3 Drains, acquire add ROV	V
Study Type ☐ Flood risk modeling/mapping ☐ Flood mitigation study		ernative Analysis sibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area County/ Counties Cameron	n		
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No 🗆			
Known Flood Risk			
History of Flooding? Population at Risk	Yes ✓ No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted Notes:	Yes □ No □	Agricultural Land impacted	Yes No
Study Costs			
Total Cost:	\$15,937,875.00	Study Sponsor:	, -
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No.3

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Included in a CIP or other plan? Yes ✓ No □

(Potential) Source of Funding

2025

Yes □ No ✓

Yes □ No ✓

Time to complete?

Funding Dedicated?



FME

Flood Mitigation Evaluations
Fact Sheet

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RFPG Recommended





FME ID: 151000336

City of Indian Lake - Indian Lake Resaca Dredging

FME Description

Dredging of Resaca to increase detention

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Engineering Project Planning

Study Area

City/ Cities Indian Lake

County/ Counties Cameron

HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆



Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆 No 🗆	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$598,000.00	Study Sponsor:	City of Indian Lake
Estimated year to start:	2023	Entity with Oversight	City of Indian Lake
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

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Rel	ated Goals		
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RFPG Recommended





City of Laguna Vista - Broadway/ FM510 FME ID: 151000337

FME Description

Drainage Improvements

Drainage infrastructure improvements needed along Broadway and connecting streets.

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Engineering Project Planning

No □

Study Area

City/ Cities Laguna Vista

County/ Counties Cameron

HUC 8

HUC 12

Study Area (sq. mi.) 1.00



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:	
Population at Risk			# of structures inundated	
Roadways flooded	Yes ✓	No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆	No □	Agricultural Land impacted	Yes 🗆
Notes:				

Study Costs

Total Cost:	\$922,250.00	Study Sponsor:	City of Laguna Vista
Estimated year to start:	2023	Entity with Oversight	City of Laguna Vista
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

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RFPG Recommended





FME ID: 151000338

City of Laguna Vista - Laguna Vista Drain Relocation

FME Description

Relocate outfall or remove Black Mangroves (Endangered species)

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Engineering Project Planning

No □

Study Area

City/ Cities Laguna Vista

County/ Counties Cameron

HUC8

HUC 12

Study Area (sq. mi.) 1.00



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:	
Population at Risk			# of structures inundated	
Roadways flooded	Yes ✓	No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆
Notes:				

Study Costs

Total Cost:	\$2,500,000.00	Study Sponsor:	City of Laguna Vista
Estimated year to start:	2023	Entity with Oversight	City of Laguna Vista
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Ves □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

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RFPG Recommended





City of Laguna Vista - Addition of Laguna Vista FME ID: 151000339
Relief Drain

FME Description

Relief drain North of Hw100 to Bahia Grande

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- Alternative AnalysisFeasibility Assessments
- ☐ Flood preparedness studies✓ Engineering Project Planning

Study Area

City/ Cities Laguna Vista

County/ Counties Cameron

HUC 8

HUC 12

Study Area (sq. mi.) 1.00



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No 🗆	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆	No 🗆
Notes:					

Study Costs

Total Cost:	\$174,750.00	Study Sponsor:	City of Laguna Vista
Estimated year to start:	2023	Entity with Oversight	City of Laguna Vista
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

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RFPG Recommended





City of Los Fresnos - Los Fresnos N. Drainage FME ID: 151000340

FME Description

Improvements

Improve existing drain system for future development

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- Alternative AnalysisFeasibility Assessments
- ☐ Flood preparedness studies✓ Engineering Project Planning

Study Area

City/ Cities Los Fresnos

County/ Counties Cameron

HUC 8

HUC 12

Study Area (sq. mi.) 1.00



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No 🗆	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆 N	No □
Notes:					

Study Costs

Total Cost:	\$249,500.00	Study Sponsor:	City of Los Fresnos
Estimated year to start:	2023	Entity with Oversight	City of Los Fresnos
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

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RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations
Fact Sheet

Cameron County Precinct No.3 - West Bayview
Drainage Improvement (South Green Valley

FME ID: 151000341

Farms) FME Description Ditch maintenance and improvements, increase culvert size where needed, .5mi W of FM 803 to .5mi E of FM 3609 along FM 510 &~1mi N along FM 803 Study Type ☐ Flood risk modeling/mapping □ Alternative Analysis ☐ Flood preparedness studies √ Engineering Project Planning ☐ Feasibility Assessments ☐ Flood mitigation study Study Area County/ Counties Cameron HUC8 **HUC 12** Study Area (sq. mi.) 1.00 **Emergency Need** Yes ✓ No 🗆 Known Flood Risk History of Flooding? Frequency of flooding: Yes ✓ No 🗆 Population at Risk # of structures inundated Roadways flooded Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □ Notes: Study Costs **Total Cost:** \$970,789.99 Study Sponsor: Cameron County Precinct No.3 Estimated year to start: 2023 Entity with Oversight Cameron County Precinct No.3 2025 Included in a CIP or other plan? Time to complete? Yes ✓ No 🗆 Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations Fact Sheet

FME ID: 151000342

Cameron County Precinct No.3 - FM 1847 Roadside Ditch and Drainage Improvements

FME Description Create roadside ditches and pos	sitive outfall/flow for	r FM 1847, north of FM 510	
Study Type □ Flood risk modeling/mapping		Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study		easibility Assessments	✓ Engineering Project Planning
Study Area County/ Counties Cameron	•		
HUC 8	•		
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No □			
Known Flood Risk History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted	Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Notes: Study Costs Total Cost: Estimated year to start:	\$504,274.64 2023	Study Sponsor: Entity with Oversight	Cameron County Precinct No.3 Cameron County Precinct No.3
Time to complete? Funding Dedicated?	2025 Yes □ No ✓	Included in a CIP or other plan? (Potential) Source of Funding n 15 Regional Flood Plan	Yes ✓ No 🗆



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





West Bayview Drainage Improvement Phase IV FME ID: 151000343

FME Description Ditch maintenance and ir &~1mi N along FM 803	mprovements,	increase cu	ulvert size where needed , .5mi W of I	FM 803 to .5mi E of FM 3609 along FM 510
Study Type				
☐ Flood risk modeling/m☐ Flood mitigation study			Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area				
County/ Counties Ca	ameron			
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.	00			
Emergency Need				
Yes ✓ No 🗆				
Known Flood Ris	k			
History of Flooding? Population at Risk		∕ No □	Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impacte Notes:	Yes v d Yes [_	Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs				
Total Cost: Estimated year to start:	\$5,1	.87,721.07 2023	Study Sponsor: Entity with Oversight	Cameron County Precinct No.3 Cameron County Precinct No.3/Cameron County Drainage District No.4
Time to complete? Funding Dedicated?	Yes	2025 □ No ✓	Included in a CIP or other plan? (Potential) Source of Funding	Yes ✓ No □
Study identified a	as a gap l	oy Regio	on 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Flood Mitigation Evaluations

Fact Sheet

West Bayview Drainage Improvement Phase V FME ID: 151000344

FME Description Proposed ditch to bypass wa	ater around the subdivisi	ion to existing drainage structure	
Study Type ☐ Flood risk modeling/mapp		Iternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study	⊔ F€	easibility Assessments	✓ Engineering Project Planning
Study Area			
County/ Counties Came	eron		
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No 🏻			
Known Flood Risk			
History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk Roadways flooded	Yes ✓ No 🗆	# of structures inundated Miles inundated?	
Critical Facilities Impacted Notes:	Yes No	Agricultural Land impacted	Yes □ No □
Study Costs			
Total Cost: Estimated year to start:	\$2,580,108.34 2023	Study Sponsor: Entity with Oversight	Cameron County Drainage District No.4 Cameron County Drainage District No.4 /
Time to complete? Funding Dedicated?	2025 Yes □ No ✓	Included in a CIP or other plan? (Potential) Source of Funding	Texas Department of Transportation Yes ✓ No □
Study identified as Yes □ No ✓	a gap by Region	n 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

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	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





FME ID: 151000345

City of Palm Valley - Palm Valley Resacas Improvements

FME Description

Dredging of Resaca in Golf Course to increase capacity

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis☐ Feasibility Assessments
- ☐ Flood preparedness studies✓ Engineering Project Planning

Study Area

City/ Cities Palm Valley

County/ Counties Cameron

HUC 8

HUC 12

Study Area (sq. mi.) 1.00



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes 🗆 No 🗆
Notes:			

Study Costs

Total Cost:	\$1,569,750.00	Study Sponsor:	City of Palm Valley
Estimated year to start:	2023	Entity with Oversight	City of Palm Valley
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

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Rel	ated Goals		
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





City of Palm Valley - Stuart Place Road Drainage Improvements

FME ID: 151000346

FME Description

Major flooding impedes emergency response. 5ft water. Improve drainage structures.

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- Alternative AnalysisFeasibility Assessments
- ☐ Flood preparedness studies✓ Engineering Project Planning

No □

Study Area

City/ Cities Palm Valley

County/ Counties Cameron

HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:	
Population at Risk			# of structures inundated	
Roadways flooded	Yes ✓	No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆	No □	Agricultural Land impacted	Yes 🗆
Notes:				

Study Costs

Total Cost:	\$914,610.00	Study Sponsor:	City of Palm Valley
Estimated year to start:	2023	Entity with Oversight	City of Palm Valley
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

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Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
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RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations

FME ID: 151000347

Fact Sheet

Bayview Irrigation District - Bayview-San Roman North Pump Station

n needed to mov	ve water out of Resaca	
	Alternative Analysis	☐ Flood preparedness studies
	Feasibility Assessments	✓ Engineering Project Planning
Yes ✓ No 🗆	Frequency of flooding:	
Yes ✓ No□	# of structures inundated Miles inundated?	
Yes No	Agricultural Land impacted	Yes □ No □
		Bayview Irrigation District 11
		Bayview Irrigation District 11 Yes ✓ No □
Yes □ No 🗸		
gap by Reg	ion 15 Regional Flood Pl	anning Group (RFPG)
	Yes ✓ No □ Yes ✓ No □ Yes □ No □ \$2,492,000.00 2023 2025 Yes □ No ✓	# of structures inundated Yes No No Agricultural Land impacted \$2,492,000.00 \$2023 Entity with Oversight 2025 Included in a CIP or other plan?



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

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Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
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RFPG Recommended





Flood Mitigation Evaluations

Fact Sheet

Ba

ayview Irrigation District - Bayview Detention	FME ID:	151000348
•1•.		

Facility				
FME Description Detention facilities needed to in	icrease ho	olding capa	city	
Study Type				
☐ Flood risk modeling/mapping☐ Flood mitigation study			Iternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area County/ Counties Cameron	1			
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need Yes ✓ No 🗆				
Known Flood Risk				
History of Flooding? Population at Risk	Yes ✓	No □	Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ Yes □	_	Miles inundated? Agricultural Land impacted	Yes No
Study Costs				
Total Cost:	\$3.83	7.500.00	Study Sponsor:	Bayview Irrigation District 11

Total Cost:	\$3,837,500.00	Study Sponsor:	Bayview Irrigation District 11
Estimated year to start:	2023	Entity with Oversight	Bayview Irrigation District 11
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes	Nο	√
165	INO	v



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

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	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
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RFPG Recommended





Flood Mitigation Evaluations

FME ID: 151000349

Fact Sheet

Bayview Irrigation District - Laguna Atascosa

Outfall Expansion		

•		
ENAE Description		

FME Description Refuge hinders outfall cap for Ba	ıyview ID11 Coop	Needed for more outflow/larger gate	s
Study Type □ Flood risk modeling/mapping □ Flood mitigation study		Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies ✓ Engineering Project Planning
Study Area County/ Counties Cameron			
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No □			
Known Flood Risk History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No ☐ Yes ✓ No ☐ Yes ☐ No ☐	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs Total Cost: Estimated year to start: Time to complete? Eunding Dedicated?	\$3,946,800.00 2023 2025	Entity with Oversight Included in a CIP or other plan?	Bayview Irrigation District 11 Bayview Irrigation District 11 Yes ✓ No □
Funding Dedicated? Study identified as a §	Yes □ No ✔ gap by Regi	(Potential) Source of Funding on 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





FME ID: 151000350

Bayview Irrigation District - Laguna Atascosa Gate Upgrade / Expansion

oute opplique, Expai			
FME Description			
Larger/more gates needed for n	nore outflow capab	ilities.	
o			
Study Type			
☐ Flood risk modeling/mapping		Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study	□ F	Feasibility Assessments	✓ Engineering Project Planning
Study Area			
County/ Counties Cameror	ı		
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need			
Yes ✓ No 🗆			
Known Flood Risk			
History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	W = N =
Critical Facilities Impacted Notes:	Yes □ No □	Agricultural Land impacted	Yes □ No □
Study Costs			
Total Cost:	\$2,354,625.00	Study Sponsor:	Bayview Irrigation District 11
Estimated year to start:	2023	Entity with Oversight	Bayview Irrigation District 11
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





FME ID: 151000351

City of Palm Valley - Palm Valley Master

Drainage Study	•	icy iviastei	
FME Description		res have never been mapped	
Study Type			
☐ Flood risk modeling☐ Flood mitigation store		Alternative AnalysisFeasibility Assessments	☐ Flood preparedness studies✓ Watershed Planning
Study Area City/ Cities	Palm Valley		
County/ Counties	Cameron		
HUC 8			
HUC 12			
Study Area (sq. mi.)	1.00		
Emergency Ne Yes ✓ No □	ed		
Known Flood R	Risk Yes ✓ No	o □ Frequency of flooding:	

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No 🗆	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆	No 🗆
Notes:					

Study Costs

Total Cost:		Study Sponsor:	City of Palm Valley
Estimated year to start:	2023	Entity with Oversight	City of Palm Valley
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





FME ID: 151000352

Cameron County Drainage District No.4 - FM 510 Crossing Improvements

FME Description Improve flow capacity at crossin	igs on FM 510 to pi	revent stacking	
		G	
Study Type			
☐ Flood risk modeling/mapping☐ Flood mitigation study		Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area			
County/ Counties Cameron	1		
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need			
Yes ✓ No 🗆			
Known Flood Risk			
History of Flooding? Population at Risk	Yes ✓ No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted Notes:	Yes □ No □	Agricultural Land impacted	Yes □ No □
Study Costs			
Total Cost:	\$7,350,750.00	Study Sponsor:	
Estimated year to start: Time to complete?	2023 2025	Entity with Oversight Included in a CIP or other plan?	Cameron County Drainage District No.4 Yes ✓ No □
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	ics - NO 🗆
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Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

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FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB Yes ✓ No ☐ guidelines?								
	Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as Yes ✓ No ☐ a benefit cost ratio or the number of structures the project removes from the 100-year floodplain?								
Rel	ated Goals								
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards						
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan						
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region						
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list						
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings						
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects						
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger						
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure						
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association						
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement						
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain						

RFPG Recommended





Flood Mitigation Evaluations

Fact Sheet

Cameron County - Chula Vista Orason Drainage FME ID: 151000353 Improvements

FME Descriptio					
Flooding issues compo	unaea by i	inadequa	ate infrast	ructure. Improve to overall drainage	inira.
Study Type					
☐ Flood risk modeling,☐ Flood mitigation stu				Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area					
County/ Counties	Cameron				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Nee	ed				
Yes ✓ No 🗆					
Known Flood Ri	isk				
History of Flooding? Population at Risk		Yes ✓	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded	l	Yes ✓	No □	Miles inundated?	V G N- G
Critical Facilities Impac Notes:	itea	Yes 🗆	No 🗆	Agricultural Land impacted	Yes No
Study Costs					
Total Cost: Estimated year to start Time to complete?	::	\$4,197	7,256.25 2023 2025	Study Sponsor: Entity with Oversight Included in a CIP or other plan?	Cameron County Drainage District No.4 Cameron County Drainage District No.4 Yes ✓ No □
Funding Dedicated?		Yes 🗆	No ✓	(Potential) Source of Funding	100
Study identified	las a ø	an hy	, Regic	on 15 Regional Flood Pla	anning Group (REPG)
Yes □ No ✓	, 40 4 E	, ~ P ~)	110010	13 Negleriai i 100a i 10	2 0100p (11110)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB Yes ✓ No ☐ guidelines?								
	Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as Yes ✓ No ☐ a benefit cost ratio or the number of structures the project removes from the 100-year floodplain?								
Rel	ated Goals								
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards						
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan						
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region						
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list						
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings						
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects						
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger						
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure						
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association						
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement						
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain						

RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations Fact Sheet

FME ID: 151000354

Cameron County Drainage District No.3 - Main Drain A Downstream Improvements, Drain B-1

FME Description Enlarge Culverts, exchange 60" ESPEY 6.2.2 Alternative 2. page		e box culvert (FM 732 crossing), an	d a 4'x3' RCB with a 8'x8' RCP. See 2010
Study Type ☐ Flood risk modeling/mapping		ternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study	⊔ Fe	asibility Assessments	✓ Preliminary Engineering
Study Area			
County/ Counties Cameror	n		
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No□			
Known Flood Risk History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$9,515,000.00 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Cameron County Drainage District No.3 Cameron County Drainage District No.3 Yes ✓ No □
Study identified as a	gap by Regior	n 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB Yes ✓ No ☐ guidelines?								
	Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as Yes ✓ No ☐ a benefit cost ratio or the number of structures the project removes from the 100-year floodplain?								
Rel	ated Goals								
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards						
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan						
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region						
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list						
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings						
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects						
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger						
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure						
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association						
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement						
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain						

RFPG Recommended





Cameron County Drainage District No.3 - Main **Drain A Capacity Increase Project**

FME ID: 151000355

FME	Descri	ipti	ion

FME Description Incr. channel width, replace N. and S. bridges at Bus77 to CR596 & replace flume with siphon downstream of Iowa Gardens Rd. See 2010 ESPEY 6.2.2 Alt. 2a. page 38								
Study Type □ Flood risk modeling/r	manning		П	Alternative Analysis	☐ Flood preparedness studies			
☐ Flood mitigation stud				Feasibility Assessments	✓ Preliminary Engineering			
Study Area								
County/ Counties	Cameron							
HUC 8								
HUC 12								
Study Area (sq. mi.)	1.00							
Emergency Nee Yes ✓ No □	d							
Known Flood Ris History of Flooding? Population at Risk Roadways flooded Critical Facilities Impact Notes:			No 🗆 No 🗆 No 🗆	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □			
Study Costs Total Cost: Estimated year to start: Time to complete?		\$16,073	2023 2025	Study Sponsor: Entity with Oversight Included in a CIP or other plan?	Cameron County Drainage District No.3 Cameron County Drainage District No.3 Yes ✓ No □			
Funding Dedicated?	as a g	Yes 🗆 ap by	No ✓	Included in a CIP or other plan? (Potential) Source of Funding on 15 Regional Flood Pla				



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB Yes ✓ No ☐ guidelines?								
	Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as Yes ✓ No ☐ a benefit cost ratio or the number of structures the project removes from the 100-year floodplain?								
Rel	ated Goals								
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards						
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan						
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region						
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list						
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings						
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects						
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger						
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure						
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association						
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement						
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain						

RFPG Recommended





FME ID: 151000356

Southwest Ditch Widening

FME Description Southwest Ditch Widening				
Study Type ☐ Flood risk modeling/mapping ☐ Flood mitigation study	5		Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area County/ Counties Camero	n			
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need Yes ✓ No□				
Known Flood Risk				
History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted	Yes ✓ Yes ✓ Yes □	No 🗆	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Notes:				
Study Costs				
Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$1,010 Yes	0,000.00 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Cameron County Drainage District No.6 Cameron County Drainage District No.6 Yes ✓ No □
Study identified as a Yes □ No ✓	gap by	/ Regio	on 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		



Funding Dedicated?

Study Costs **Total Cost:**

Study Type

Study Area



Flood Mitigation Evaluations

Fact Sheet

Cameron County Drainage Distr F-23 Culvert Improvements

Yes □ No ✓

Cameron County Drainage District No.3 - Drain FME ID: 151000357								
2-23 Culvert Improvements								
FME Description	/illiams Road and 36" R	P.C.P. at Irene Street with 6'y6' R.C.R. S.	ee 2010 ESPEY 6.2.7 Alternative 7. page 41					
Replace existing 40 Rel at W	manis Road and 30 T	ici at ilelie street with 6 x6 ileb. s	ee 2010 ESTET 0.2.7 Atternative 7. page 41					
Study Type								
☐ Flood risk modeling/mappi☐ Flood mitigation study		lternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering					
Study Area								
County/ Counties Came	ron							
HUC 8								
HUC 12								
Study Area (sq. mi.) 1.00								
Emergency Need Yes ✓ No□								
Known Flood Risk								
History of Flooding? Population at Risk Roadways flooded	Yes ✓ No 🗆	Frequency of flooding: # of structures inundated Miles inundated?						
Critical Facilities Impacted Notes:	Yes No		Yes □ No □					
Study Costs								
Total Cost: Estimated year to start: Time to complete?	\$192,729.25 2023 2025		Cameron County Drainage District No.3 Cameron County Drainage District No.3 Yes ✓ No □					

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

(Potential) Source of Funding

Yes □ No ✓



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000358

Cameron County Drainage District No.5/ Harlingen Irrigation District - Hensz and Perk Lane Laterals Crossing Replacements

Larre Laterais Crossiii	5 replaceme	inco	
FME Description			
Replacement of crossings on He	nsz and perk Lane la	aterals	
Study Type			
☐ Flood risk modeling/mapping☐ Flood mitigation study		Alternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area			
County/ Counties Cameron	n		
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No□			
Known Flood Risk			
History of Flooding? Population at Risk	Yes ✓ No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted Notes:	Yes □ No □	Agricultural Land impacted	Yes □ No □
Study Costs			
Total Cost:	\$11,245,110.27	Study Sponsor:	Cameron County Drainage District No.5/ Harlingen Irrigation District
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No.5/ Harlingen Irrigation District
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No □
Funding Dedicated?	Vac 🗆 Na 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes	No	✓



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





FME ID: 151000359

City of San Benito - South Rail Drainage

•				_	
FME Description South of R.RDrainage		ment and	d flood ele	evation measures	
Study Type	, .				
☐ Flood risk modeling☐ Flood mitigation st				Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area					
City/ Cities	San Beni	to			
County/ Counties	Cameron	1			
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Ne	ed				
Yes ✓ No 🗆					
Known Flood R	Risk				
History of Flooding? Population at Risk		Yes ✓	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded		Yes ✓	-	Miles inundated?	W 5 N 5
Critical Facilities Impa Notes:	cted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost:		\$6,60	7,849.00	Study Sponsor:	City of San Benito
Estimated year to star Time to complete?	t:		2023 2025	Entity with Oversight Included in a CIP or other plan?	City of San Benito Yes ✓ No □
Funding Dedicated?		Yes [No ✓	(Potential) Source of Funding	
0. 1.1				455 1 151 151	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No 🗸



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations Fact Sheet

FME ID: 151000360

City of San Benito - North Rail Drainage

Study Type					
☐ Flood risk modeling☐ Flood mitigation stu				Alternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area					
City/ Cities	San Benito				
County/ Counties	Cameron				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Nec	ed				
Known Flood R	isk				
History of Flooding? Population at Risk Roadways flooded Critical Facilities Impac Notes:	Ye	s 🗸	No 🗆	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost: Estimated year to star		0,696	,236.00 2023 2025	Study Sponsor: Entity with Oversight Included in a CIP or other plan?	City of San Benito City of San Benito Yes ✓ No □



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





FME ID: 151000361

City of San Benito - Lateral Connections to Drainage District

		_		_
FΝ	ΙE	Desci	rip:	tion

Connecting	existing San	Renito	laterals t	n Drainage	District ditches

Study Type		
☐ Flood risk modeling/mapping	☐ Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study	Feasibility Assessments	✓ Engineering Project Planning

Study Area

City/ Cities San Benito
County/ Counties Cameron
HUC 8
HUC 12
Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$705,838.00 Study Sponsor: City of San Benito Estimated year to start: 2023 Entity with Oversight Time to complete? 2025 Included in a CIP or other plan? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





151000362

lity of Primera - Primera/Wilson	Tract Main	FIVIE ID:
Outfall Improvements		

	11000	rin	+10	n
FME	レノピろし		1110	
		יו וע		

Improvements/expansion along Wilson main tract to relief stacking into Primera
--

Study Type			
☐ Flood risk modeling/mapping☐ Flood mitigation study		☐ Alternative Analysis☐ Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area			
City/ Cities P	rimera		
County/ Counties C	Cameron		
HUC 8			

Study Area (sq. mi.) 1.00

HUC 12

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$922,250.00	Study Sponsor:	City of Primera
Estimated year to start:	2023	Entity with Oversight	City of Primera
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Ves □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
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	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





City of Primera - Primera Detention Ponds FME ID: 151000363

,					
FME Description Additional Detention f		eeded			
Study Type					
☐ Flood risk modeling☐ Flood mitigation stu				Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area					
City/ Cities	Primera				
County/ Counties	Cameron	1			
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Nee	ed				
Known Flood R	isk				
History of Flooding? Population at Risk		Yes ✓	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded		Yes ✓	No □	Miles inundated?	
Critical Facilities Impac Notes:	cted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost:		\$3,54	4,949.77	Study Sponsor:	
Estimated year to star Time to complete?	t:		2023 2025	Entity with Oversight Included in a CIP or other plan?	City of Primera Yes ✓ No 🗆
Funding Dedicated?		Yes 🗆	No ✓	(Potential) Source of Funding	-
Study identified	d as a g	gap by	/ Regio	on 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations
Fact Sheet

FME ID: 151000364

Cameron County Precinct No.4 - North Floodway Control Structure Improvements

•			•		
FME Description		ınd checl	k valves ir	nto the floodway	
Study Type					
☐ Flood risk modeling☐ Flood mitigation stu				Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area					
County/ Counties	Cameron				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Ne	ed				
Yes ✓ No 🗆					
Known Flood R	isk				
History of Flooding?		Yes ✓	No 🗆	Frequency of flooding:	
Population at Risk Roadways flooded		Yes ✓	No □	# of structures inundated Miles inundated?	
Critical Facilities Impac Notes:	cted	Yes 🗆	-		Yes □ No □
Study Costs					
Total Cost: Estimated year to startime to complete?	t:	\$2,610	5,250.00 2023 2025	Study Sponsor: Entity with Oversight Included in a CIP or other plan?	Cameron County Precinct No.4 Cameron County Precinct No.4 Yes ✓ No □
Funding Dedicated?		Yes [No ✓	(Potential) Source of Funding	
Study identified	d as a g	gap by	/ Regio	on 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations

FME ID: 151000365

Fact Sheet

Cameron County Precinct No.4 - NF-13 Capacity	
and Structure Improvements (North FM 800)	

FME Description Improve existing drainag		NF-13 and	d existing	culverts on N	North FM 800				
Study Type									
	_								
☐ Flood risk modeling/r☐ Flood mitigation stud				Alternative A easibility Ass					ness studies ject Planning
Study Area									
County/ Counties (Cameron								
HUC 8									
HUC 12									
Study Area (sq. mi.) 1	1.00								
Emergency Nee	d								
Yes ✓ No 🗆									
Known Flood Ris	sk								
History of Flooding? Population at Risk		Yes ✓	No \square		Frequency of flood	_			
Roadways flooded		Yes ✓	No □	# 0	Miles inundat				
Critical Facilities Impact Notes:	ed	Yes 🗆	No 🗆	Agrio	cultural Land impac	cted	Yes 🗆	No 🗆	
Study Costs									
Total Cost:		\$10,522	2,087.36		Study Spon			on County Pr	
Estimated year to start: Time to complete?			2023 2025	Included	Entity with Overs in a CIP or other pl	_	Camero Yes ✓	on County Pr	ecinct No.4
Funding Dedicated?		Yes 🗆			tial) Source of Fund		162 4	INU 🗆	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations
Fact Sheet

FME ID: 151000366

Cameron County Precinct No.4 - North Floodway Bypass / Hardin Ranch Drain Extension

utilizing some existi	ing drainage structures to provide a	major outfall in lieu of floodway
		☐ Flood preparedness studies✓ Engineering Project Planning
Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
\$65,657,932.63 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Cameron County Precinct No.4 Cameron County Precinct No.4 Yes ✓ No □
	Yes ✓ No □ Yes ✓ No □ Yes ✓ No □ Yes □ No □ \$65,657,932.63 2023 2025	# of structures inundated Yes V No

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Tio Cano Lake Detention / Retention Facility FME ID: 151000367

FME Description

Proposed detention / retention pond

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis
- ☐ Flood preparedness studies
- ☐ Feasibility Assessments ✓ Preliminary Engineering

Study Area

County/ Counties Cameron

HUC 8

HUC 12

Study Area (sq. mi.) 1.00



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$10,027,317.73	Study Sponsor:	Cameron County Precinct No.4, Cameron County Draiange District No. 6
Estimated year to start:	2023	Entity with Oversight	Cameron County Precinct No.4, Cameron County Draiange District No. 6
Time to complete? Funding Dedicated?	2025 Yes □ No √	Included in a CIP or other plan? (Potential) Source of Funding	Yes ✓ No 🗆

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

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	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations

Fact Sheet

Cameron County Precinct No.4/Camreon County Drainage District No.5 - Southwest Main Drain / Arroyo Colorado Connector

FME ID: 151000368

Dialit / Arroyo Colora	ido Comi	ector		
FME Description Construct a ditch to the Arroyo	Colorado via t	ne CCDDNo.5 Southwest Main	Drain (Baker Po	tts - Hoss Lane)
Study Type □ Flood risk modeling/mapping □ Flood mitigation study		☐ Alternative Analysis☐ Feasibility Assessments		Flood preparedness studies Preliminary Engineering
Study Area County/ Counties Cameror HUC 8 HUC 12 Study Area (sq. mi.) 1.00	1			
Emergency Need Yes ✓ No 🗆				
Known Flood Risk History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No Yes ✓ No Yes □ No	# of structures i	nundated undated?	□ No □
Study Costs Total Cost: Estimated year to start: Time to complete?		.44 Study 023 Entity with 025 Included in a CIP or o	Cou Oversight Can Cou	neron County Precinct No.4/Camreon unty Drainage District No.5 neron County Precinct No.4/Camreon unty Drainage District No.5 ✓ No □
Funding Dedicated?		(Potential) Source of		· NO 🗆

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



RFPG Recommended

Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	osed	I project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
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	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance
	repeated flooding events through property buyouts		penalties; and who regulate development in the future conditions floodplain



FME

Flood Mitigation Evaluations
Fact Sheet

FME ID: 151000369

Cameron County Precinct No.4/Camreon County Drainage District No.5 - Santa Rosa Capacity & Structure Improvements

Capacity & Structure	Improvemen	ts	
FME Description Improve / replace existing drain	nage structures to inci	rease capacity.	
Study Type □ Flood risk modeling/mapping □ Flood mitigation study		Iternative Analysis asibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area County/ Counties Camero	n		
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No 🗆			
Known Flood Risk			
History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No
Study Costs			
Total Cost:	\$6,617,489.79	Study Sponsor:	Cameron County Precinct No.4/Camreo
Estimated year to start:	2023	Entity with Oversight	County Drainage District No.5 Cameron County Precinct No.4/Camreo County Drainage District No.5
Time to complete? Funding Dedicated?	2025 Yes □ No ✓	Included in a CIP or other plan? (Potential) Source of Funding	Yes ✓ No □

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes	No	✓



RFPG Recommended

Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	osed	I project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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	repeated flooding events through property buyouts		penalties; and who regulate development in the future conditions floodplain





☐ Flood preparedness studies

✓ Preliminary Engineering

Cameron County Drainage District No.5 - Wilson FME ID: 151000370 Main Tract Drain Expansion

FME Description

Expand the Wilson Main Tract Drain which acts as primary drain and outfall for a major part of The City of Primera North. The expansion will prevent stacking throughout connecting laterals and to protect assets in effected area.

☐ Alternative Analysis

☐ Feasibility Assessments

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Stud	ıy ı	Ιyμ	ľ

Flood	risk	mode	ling/	mapp	ing

☐ Flood mitigation study

Study Area

County/ Counties Cameron

HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?

Population at Risk

Roadways flooded

Yes ✓ No □ Frequency of flooding:

of structures inundated

Miles inundated?

Critical Facilities Impacted

Yes □ No □ Agricultural Land impacted

Yes □ No □

Notes:

Study Costs

Total Cost:	\$2,862,925.00	Study Sponsor:	Cameron County Drainage District No.5
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No.5
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓

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FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □				
	Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as Yes ✓ No ☐ a benefit cost ratio or the number of structures the project removes from the 100-year floodplain?						
Rel	ated Goals						
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards				
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan				
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region				
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list				
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RFPG Recommended





Flood Mitigation Evaluations

Cameron County Drainage District No.5 - Young Lateral - Wilson Main Tract Connection

Fact Sheet FME ID: 151000371

FME Description

Connection of Young lateral to Wilson Main Tract.

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- □ Alternative Analysis ☐ Feasibility Assessments
- ☐ Flood preparedness studies ✓ Preliminary Engineering

Study Area

County/ Counties Cameron

HUC8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No□

Known Flood Risk

History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted

Notes:

Yes ✓ No 🗆

Yes ✓ No 🗆

Yes □ No □

Frequency of flooding: # of structures inundated Miles inundated?

Agricultural Land impacted Yes □ No □

Study Costs

Total Cost: \$5,796,285.00 Cameron County Drainage District No.5 Study Sponsor: Estimated year to start: 2023 **Entity with Oversight** Cameron County Drainage District No.5 Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No 🗆 Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)





FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □				
	Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as Yes ✓ No ☐ a benefit cost ratio or the number of structures the project removes from the 100-year floodplain?						
Rel	ated Goals						
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards				
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan				
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region				
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list				
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings				
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain				

RFPG Recommended





FME ID: 151000372

Harlingen Irrigation District - Morris Rd

Connectivity				
FME Description				
Connectivity needed for neigh	nborhoods i	n Morris	Rd Area.	
Study Type				
☐ Flood risk modeling/mappi☐ Flood mitigation study	ng		Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area				
County/ Counties Camer	ron			
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need				
Yes ✓ No 🗆				
Known Flood Risk				
History of Flooding? Population at Risk	Yes ✓	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded	Yes ✓	-	Miles inundated?	
Critical Facilities Impacted Notes:	Yes □	No 🗆	Agricultural Land impacted	Yes □ No □
Study Costs				

Total Cost:	\$2,500,000.00	Study Sponsor:	Harlingen Irrigation District No.1
Estimated year to start:	2023	Entity with Oversight	Harlingen Irrigation District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes	П	Nο	√
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FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □				
	Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as Yes ✓ No ☐ a benefit cost ratio or the number of structures the project removes from the 100-year floodplain?						
Rel	ated Goals						
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards				
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan				
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region				
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list				
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings				
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects				
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger				
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure				
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association				
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement				
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain				

RFPG Recommended





☐ Flood preparedness studies ✓ Engineering Project Planning

FME ID: 151000373

Harlingen Irrigation District - Ebony / 800 **Expansion**

FME Description

Culvert improvements under TxDOT roadways to move storm water.

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

Study Area

County/ Counties Cameron

HUC8

HUC 12

Study Area (sq. mi.)

Emergency Need

Yes ✓ No□

Known Flood Risk

History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:

Yes ✓ No 🗆

Yes ✓ No 🗆 Yes □ No □

Agricultural Land impacted Yes

No

Frequency of flooding: # of structures inundated Miles inundated?

Study Costs

Total Cost: \$2,500,000.00 Harlingen Irrigation District No.1 Study Sponsor: Estimated year to start: 2023 **Entity with Oversight** Harlingen Irrigation District No.1 Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No 🗆 Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

□ Alternative Analysis

☐ Feasibility Assessments

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓

Page 1 of 2



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □				
	Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as Yes ✓ No ☐ a benefit cost ratio or the number of structures the project removes from the 100-year floodplain?						
Rel	ated Goals						
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards				
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan				
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region				
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list				
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings				
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects				
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger				
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure				
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association				
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement				
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain				

RFPG Recommended





FME ID: 151000374

Harlingen Irrigation District - Adams Garden Crossing Expansion

Crossing Expansion				
FME Description				
Enlarge crossings on entire syste	m to out	fall into	main floodway	
Study Type				
☐ Flood risk modeling/mapping☐ Flood mitigation study			Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area				
County/ Counties Cameror	1			
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need				
Yes ✓ No 🗆				
Known Flood Risk				
History of Flooding? Population at Risk	Yes ✓	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded	Yes ✓		Miles inundated?	
Critical Facilities Impacted Notes:	Yes 🗆	No □	Agricultural Land impacted	Yes □ No □

Study Costs

Total Cost:	\$12,013,500.00	Study Sponsor:	Harlingen Irrigation District No.1
Estimated year to start:	2023	Entity with Oversight	Harlingen Irrigation District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes		No	✓
1 5	1 1	INU	•



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □				
	Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as Yes ✓ No ☐ a benefit cost ratio or the number of structures the project removes from the 100-year floodplain?						
Rel	ated Goals						
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards				
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan				
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region				
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list				
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings				
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects				
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger				
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure				
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association				
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement				
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain				

RFPG Recommended





Flood Mitigation Evaluations

Harlingen Irrigation District - North Combes -Connectivity

Fact Sheet

FME ID: 151000375

FME Description No current connectivity to drain	nage syste	m. Connecti	vity needed.	
Study Type □ Flood risk modeling/mapping	,	□ Δ Ι:	ternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study	•		asibility Assessments	✓ Engineering Project Planning
Study Area				
County/ Counties Cameron	n			
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need				
Yes ✓ No □				
Known Flood Risk				
History of Flooding? Population at Risk	Yes ✓	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded	Yes ✓	No \square	Miles inundated?	
Critical Facilities Impacted Notes:	Yes 🗆	No □	Agricultural Land impacted	Yes No
Study Costs				
Total Cost:	\$5,796	5,285.00	Study Sponsor:	Harlingen Irrigation District No.1
Estimated year to start:		2023	Entity with Oversight	Harlingen Irrigation District No.1

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Included in a CIP or other plan? Yes ✓ No □

(Potential) Source of Funding

2025

Yes □ No ✓

	_		_
Yes		No	✓

Time to complete?

Funding Dedicated?



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





FME ID: 151000376

La Feria Irrigation District - Bixby Drainage

Improvements				
FME Description Homes flood during storm even	nt. Upgrad	led infras	tructure needed.	
Study Type □ Flood risk modeling/mappin	g		Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study			Feasibility Assessments	✓ Engineering Project Planning
Study Area				
County/ Counties Camero	n			
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need Yes ✓ No□				
Known Flood Risk				
History of Flooding? Population at Risk	Yes ✓	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ Yes □	-	Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs				

Total Cost:	\$10,258,636.23	Study Sponsor:	La Feria Irrigation District
Estimated year to start:	2023	Entity with Oversight	La Feria Irrigation District
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes		No	✓
1 5	1 1	INU	•



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations Fact Sheet

City of Rio Hondo - Rio Hondo Connectivity FME ID: 151000377

FME Description		ctivity ei	ther north	to Arroyo Colorado or South to Rio (Grande River
Study Type					
☐ Flood risk modeling☐ Flood mitigation sto				Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area					
City/ Cities	Rio Hond	0			
County/ Counties	Cameron				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Ne	ed				
Yes ✓ No 🗆					
Known Flood R	Risk				
History of Flooding? Population at Risk		Yes ✓		Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impa Notes:	cted	Yes ✓ Yes □	_	Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost: Estimated year to star Time to complete? Eunding Dedicated?	t:		9,205.00 2023 2025	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Flood Mitigation Evaluations

FME ID: 151000378

La Feria Irrigation District - La Feria/ 6.0 Channel Widening

Yes 🗌 No 🗆

Fact Sheet

FME Description Channel widening from Arroy	o Colorado	to Wilson N	Nain Tract crossover	
Study Type ☐ Flood risk modeling/mappi ☐ Flood mitigation study	ng		Iternative Analysis easibility Assessments	☐ Flood preparedness studies ✓ Engineering Project Planning
Study Area			ideal and the second	
County/ Counties Camer	ron			
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need				
Yes ✓ No 🗆				
Known Flood Risk				
History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:	
Population at Risk Roadways flooded	Yes ✓	No □	# of structures inundated Miles inundated?	

Study Costs

Notes:

Critical Facilities Impacted

Total Cost:	\$3,511,885.00	Study Sponsor:	La Feria Irrigation District
Estimated year to start:	2023	Entity with Oversight	La Feria Irrigation District
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Agricultural Land impacted Yes

No

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes	П	No	✓
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FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □				
	Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as Yes ✓ No ☐ a benefit cost ratio or the number of structures the project removes from the 100-year floodplain?						
Rel	ated Goals						
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards				
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan				
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region				
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list				
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain				

RFPG Recommended





☐ Flood preparedness studies ✓ Engineering Project Planning

FME ID: 151000379

La Feria Irrigation District - Tio Cano Lake **Capacity Improvements**

FME Description

Deepening/widening of Tio Cano Lake to provide storage

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

Study Area

County/ Counties Cameron

HUC8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No□

Known Flood Risk

History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted

Yes ✓ No 🗆

Yes ✓ No 🗆 Yes □ No □

Agricultural Land impacted Yes

No



Frequency of flooding: # of structures inundated Miles inundated?

Study Costs

Notes:

Total Cost: \$772,750.00 La Feria Irrigation District Study Sponsor: Estimated year to start: 2023 Entity with Oversight La Feria Irrigation District Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No 🗆 Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

□ Alternative Analysis

☐ Feasibility Assessments

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □				
	Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as Yes ✓ No ☐ a benefit cost ratio or the number of structures the project removes from the 100-year floodplain?						
Rel	ated Goals						
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards				
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan				
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region				
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list				
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings				
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects				
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger				
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain				

RFPG Recommended





FME ID: 151000380

City of Rio Hondo - Rio Hondo Drainage Improvements

mprovements				
FME Descriptio Overall H&H improven		ity		
Study Type ☐ Flood risk modeling, ☐ Flood mitigation stu			lternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Watershed Planning
Study Area City/ Cities County/ Counties	Rio Hondo Cameron			
HUC 8 HUC 12 Study Area (sq. mi.)	1.00			
Emergency Nee	ed			
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impac Notes:	Yes ✓ Yes ✓	No 🗆	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No

Study Costs

Total Cost:		Study Sponsor:	City of Rio Hondo
Estimated year to start:	2023	Entity with Oversight	City of Rio Hondo
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes	No	✓



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □				
	Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as Yes ✓ No ☐ a benefit cost ratio or the number of structures the project removes from the 100-year floodplain?						
Rel	ated Goals						
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards				
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan				
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region				
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list				
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings				
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects				
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger				
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure				
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association				
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement				
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain				

RFPG Recommended





FME ID: 151000381

City of Rio Hondo - Rio Hondo Evacuation Center

FME Description

Construct an evacuation center needed during storm event

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☐ Flood risk modeling/mapping	Alternative Analysis	Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	√ Flood Readiness and Resilience

Study Area

City/ Cities Rio Hondo
County/ Counties Cameron

HUC 8 HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No 🗆	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆	No 🗆
Notes:					

Study Costs

Total Cost:	\$3,245,221.25	Study Sponsor:	City of Rio Hondo
Estimated year to start:	2023	Entity with Oversight	City of Rio Hondo
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □				
	Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as Yes ✓ No ☐ a benefit cost ratio or the number of structures the project removes from the 100-year floodplain?						
Rel	ated Goals						
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards				
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan				
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region				
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list				
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement				
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain				

RFPG Recommended





Flood Mitigation Evaluations

Fact Sheet

City of Santa Rosa - Santa Rosa Drainage System FME ID: 151000382 Improvements

FME Description Clay lines in place. Total system infrastructure improvements needed. Manholes collapse.							
Study Type ☐ Flood risk modeling/ma ☐ Flood mitigation study	pping	□ Alternative Analysis□ Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning				
Study Area City/ Cities Sar	nta Rosa						
County/ Counties Car	meron						
HUC 8							
HUC 12							
Study Area (sq. mi.) 1.0	00						
Emergency Need Yes ✓ No □							
Known Flood Risk							
History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No ☐ Yes ✓ No ☐ Yes ☐ No ☐	# of structures inundated Miles inundated?	Yes No				
Study Costs							
Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$3,245,221. 20 20 Yes □ No	23 Entity with Oversight 25 Included in a CIP or other plan?					

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





City of Santa Rosa - Santa Rosa - 107 Channel / FME ID: 151000383

Crossover

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+IVI	I	Descriptio	n
	_	20011010	

Expansion of	channel a	and	culvert	rossings	at railro	ad tracks.
Expansion or	Citarine,	4114	Cartere	. 00011150	acianio	aa cracks

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Stud	\ /	1 \ /	Δ
Jiuu	ıy ı	ΙVΙ	

☐ Flood risk modeling/mapping	Alternative Analysis	Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Engineering Project Planning

Study Area

City/ Cities Santa Rosa

County/ Counties Cameron

HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:	
Population at Risk			# of structures inundated	
Roadways flooded	Yes ✓	No \square	Miles inundated?	
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆 No 🗆
Notes:				

Study Costs

Total Cost:	\$3,245,221.25	Study Sponsor:	City of Santa Rosa
Estimated year to start:	2023	Entity with Oversight	City of Santa Rosa
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	



Yes □ No ✓



Flood Mitigation Evaluations

FME ID: 151000384

Fact Sheet

City of Santa Rosa - Santa Rosa Connectivity

FME Description	n			
· ·		or flooding du	ring 50-year storms. Connection of S	anta Rosa to surrounding area
Study Type				
☐ Flood risk modeling☐ Flood mitigation stu			Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area				
City/ Cities	Santa Rosa			
County/ Counties	Cameron			
HUC 8				
HUC 12				
Study Area (sq. mi.)	1.00			
Emergency Ne	ed			
Yes ✓ No 🗆				
Known Flood R	isk			
History of Flooding? Population at Risk	Yes	✓ No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded	Yes	✓ No 🗆	Miles inundated?	
Critical Facilities Impa Notes:	cted Yes	S □ No□	Agricultural Land impacted	Yes □ No □
Study Costs				
Total Cost:		\$383,237.50	Study Sponsor:	City of Santa Rosa
Estimated year to star Time to complete?	t:	2023 2025	Entity with Oversight Included in a CIP or other plan?	City of Santa Rosa Yes ✓ No □
Funding Dedicated?	Y	es □ No ✓	(Potential) Source of Funding	-
Study identified	d as a gap	by Regio	on 15 Regional Flood Pla	anning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





FME ID: 151000385

City of Los Indios - Los Indios-Carrasitos Trail Drainage Improvements

Diamage improver	Hents		
FME Description new storm water drainage s	ystem needed.		
Study Type □ Flood risk modeling/mapp □ Flood mitigation study		Alternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area City/ Cities Los I	ndios		
County/ Counties Came	eron		
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No□			
Known Flood Risk			
History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk Roadways flooded	Yes ✓ No 🗆	# of structures inundated Miles inundated?	
Critical Facilities Impacted Notes:	Yes No	Agricultural Land impacted	Yes □ No □
Study Costs			
Total Cost:	\$667,307.98	Study Sponsor:	City of Los Indios
Estimated year to start:	2023 2025	Entity with Oversight Included in a CIP or other plan?	City of Los Indios Yes ✓ No □
Time to complete?	2025	included in a CIP of Other DIAM?	162 A MOT

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

(Potential) Source of Funding

Yes □ No ✓

Yes □ No ✓

Funding Dedicated?



FME

Flood Mitigation Evaluations Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remove		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: 151000386

Cameron County - Reba-Bass Lake Drainage Improvements

FME Description

Drainage improvements between Bus 83 and Arroyo Colorado

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- Alternative AnalysisFeasibility Assessments
- ☐ Flood preparedness studies✓ Engineering Project Planning

Study Area

County/ Counties Cameron

HUC8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$1,228,807.50	Study Sponsor:	Cameron County
Estimated year to start:	2023	Entity with Oversight	Cameron County
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

gui	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
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RFI	PG Recommended	





FME ID: 151000387

City of Los Indios - Los Indios-Del Rio East **Subdivision Improvements**

FME Description Infrastructure to include the improvement of storm water drainage.							
Study Type ☐ Flood risk modeling/mapping ☐ Flood mitigation study			☐ Alternative Analysis☐ Feasibility Assessments		 ☐ Flood preparedness studies ✓ Engineering Project Planning 		
Study Area City/ Cities	Los Indios						
County/ Counties	Cameron						
HUC 8							
HUC 12							
Study Area (sq. mi.)	1.00						
Emergency Ne Yes ✓ No □	ed						
Known Flood R	Risk						
History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:	١	'es ✓ 'es ✓ Yes □	No 🗆	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □		
Study Costs							
Total Cost: Estimated year to star Time to complete? Funding Dedicated?		Yes 🗆		Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Los Indios City of Los Indios Yes ✓ No □		

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
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	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Flood Mitigation Evaluations

☐ Flood preparedness studies

✓ Engineering Project Planning

FME ID: 151000388

Yes 🗆 No 🗆

City of Rio Hondo - Rio Hondo Dam Repair

Fact Sheet

FME Description

Repair and rehabilitate the Dam that holds Resaca water and connects City to park on the peninsula

□ Alternative Analysis

☐ Feasibility Assessments

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

Study Area

City/ Cities **Rio Hondo**

County/ Counties Cameron

HUC8

HUC 12

Study Area (sq. mi.)

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No 🗆 Frequency of flooding: Population at Risk # of structures inundated Roadways flooded Miles inundated? Yes ✓ No 🗆 Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Notes:

Study Costs

Total Cost: \$1,339,590.00 City of Rio Hondo Study Sponsor: Estimated year to start: 2023 **Entity with Oversight** City of Rio Hondo Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No 🗆 Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)





RFPG Recommended

Yes ✓ No 🗆

FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Flood Mitigation Evaluations

FME ID: 151000389

Fact Sheet

Willacy County Precinct No.1 - La Sara Drain

Ditch improvement

FME Description			
improve ~6,000 LF of existing dr	ain ditches in La Sara	a	
Study Type			
☐ Flood risk modeling/mapping☐ Flood mitigation study		Iternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area			
County/ Counties Willacy			
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need			
Yes ✓ No 🗆			
Known Flood Risk			
History of Flooding? Population at Risk	Yes ✓ No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted Notes:	Yes □ No □	Agricultural Land impacted	Yes □ No □
Study Costs			
Total Cost:	\$1,209,719.00	Study Sponsor:	Willacy County Precinct No.1
Estimated year to start: Time to complete?	2023 2025	Entity with Oversight Included in a CIP or other plan?	Willacy County Precinct No.1 Yes ✓ No □
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



RFPG Recommended

Yes ✓ No 🗆

FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Flood Mitigation Evaluations

FME ID: 151000390

Fact Sheet

Willacy County Precinct No.1 - Los Angeles

Drain Ditch improvement

FME Description Maintain ~2,500 LF of drain dite	ches in Los Angeles S	ubdivision				
Study Type □ Flood risk modeling/mapping □ Flood mitigation study	=	 □ Alternative Analysis □ Flood preparedness st ✓ Engineering Project Pl 				
Study Area County/ Counties Willacy						
HUC 8						
HUC 12						
Study Area (sq. mi.) 1.00						
Emergency Need Yes ✓ No□						
Known Flood Risk						
History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No			
Study Costs						
Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$637,529.00 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Willacy County Precinct No.1 Willacy County Precinct No.1 Yes ✓ No □			

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓



RFPG Recommended

Yes ✓ No 🗆

FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Flood Mitigation Evaluations

Fact Sheet

Willacy County Precinct No.1 - Various Drainage FME ID: 151000391 Improvements in Ranchette Estates

improvements in har	.ootto Eotate		
FME Description Regrade swale, install RCP w/ S. roadway access.	.E.T. Culverts, and clea	an/maintain R.E. Main Drain Ditch	to improve drainage and maintain
Study Type □ Flood risk modeling/mapping □ Flood mitigation study		ternative Analysis asibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area County/ Counties Willacy			
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No □			
Known Flood Risk	v / v =	5 (0 1)	
History of Flooding? Population at Risk	Yes ✓ No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes □ No □	Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs			
Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$921,875.00 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Willacy County Precinct No.1 Willacy County Precinct No.1 Yes ✓ No □
Study identified as a	gap by Regior	15 Regional Flood Pla	anning Group (RFPG)



RFPG Recommended

Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	osed	I project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance
	repeated flooding events through property buyouts		penalties; and who regulate development in the future conditions floodplain





Flood Mitigation Evaluations

FME ID: 151000392

Fact Sheet

City of San Perlita - Box Culvert Extension

FME Description Connection of San Per		ge infras	tructure t	to East Main Drain through 4'x8' RCB	
Study Type				Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation stu	ıdy			Feasibility Assessments	✓ Engineering Project Planning
Study Area					
County/ Counties	Willacy				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Nec	ed				
Known Flood R	isk				
History of Flooding? Population at Risk Roadways flooded		Yes ✓ Yes ✓		Frequency of flooding: # of structures inundated Miles inundated?	
Critical Facilities Impac Notes:	cted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost: Estimated year to star Time to complete? Funding Dedicated?	t:	\$1,35 Yes	7,390.00 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	
Study identifie	d as a g	an h	/ Regi	on 15 Regional Flood Pla	anning Group (REPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Flood Mitigation Evaluations

Fact Sheet FME ID: 151000393

City of San Perlita - School Storm Sewer Extension

FME Description Extension of southwest end of San Perlita drainage infrastructure and connect system to existing drainage ditch						
		 □ Alternative Analysis □ Flood preparedness study ✓ Engineering Project Plan 				
Study Area City/ Cities	San Perlit	a				
County/ Counties	Willacy					
HUC 8						
HUC 12						
Study Area (sq. mi.)	1.00					
Emergency Nee Yes ✓ No □	ed					
Known Flood R History of Flooding?	isk	Yes ✓ No 🗆	Frequency of flooding:			
Population at Risk			# of structures inundated			
Roadways flooded Critical Facilities Impac Notes:	cted	Yes ✓ No □ Yes □ No □		Yes □ No □		
Study Costs						
Total Cost: Estimated year to star Time to complete?	t:	\$234,627.0 202 202	23 Entity with Oversight	City of San Perlita City of San Perlita Yes ✓ No □		
Funding Dedicated?		Yes 🗆 No	· .	-		
Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)						



RFPG Recommended

Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	osed	I project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance
	repeated flooding events through property buyouts		penalties; and who regulate development in the future conditions floodplain





Flood Mitigation Evaluations

FME ID: 151000394

Fact Sheet

City of San Perlita - Community Drainage Improvements

improvements

FME	Descri	ption

C 1		_	
Stile	11/	1/r	
Stuc	1 V I	V	ノし

☐ Flood risk modeling/mapping	Alternative Analysis	Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Engineering Project Planning

Study Area

City/ Cities San Perlita
County/ Counties Willacy

HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:	
Population at Risk			# of structures inundated	
Roadways flooded	Yes ✓	No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆 No 🗆
Notes:				

Study Costs

Total Cost:	\$688,748.00	Study Sponsor:	City of San Perlita
Estimated year to start:	2023	Entity with Oversight	City of San Perlita
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





Flood Mitigation Evaluations

Fact Sheet

Willacy County Drainage District No.1 - HW 186 FME ID: 151000395 Fast Drainage Extension

Last Diamage L	ACC1131011			
FME Description	1			
Connectivity/extension	of current draina	age facilitie	s. Residents currently flood.	
Study Type				
☐ Flood risk modeling/r☐ Flood mitigation stud			Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area				
County/ Counties \	Willacy			
HUC 8				
HUC 12				
Study Area (sq. mi.)	1.00			
Emergency Nee Yes ✓ No□	d			
Known Flood Ris	sk			
History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:	
Population at Risk Roadways flooded	Yes ✓	No □	# of structures inundated Miles inundated?	
Critical Facilities Impact Notes:		No 🗆	Agricultural Land impacted	Yes □ No □
Study Costs				
Total Cost: Estimated year to start: Time to complete?		00,000.00 2023 2025	Study Sponsor: Entity with Oversight Included in a CIP or other plan?	Willacy County Drainage District Willacy County Drainage District Yes ✓ No □
Funding Dedicated?	Yes		(Potential) Source of Funding	1C3 · 110 □
Study identified	as a gap b	y Regic	on 15 Regional Flood Pla	anning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
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	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





Flood Mitigation Evaluations Fact Sheet

FME ID: 151000396

Willacy County Drainage District No.1 - Detention to Willacy Main Drain

becention to windo,	Widni Didni		
FME Description Detention facilities for Willacy	Main Drain, increase h	nolding capacity	
Study Type □ Flood risk modeling/mapping □ Flood mitigation study	=	lternative Analysis asibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area County/ Counties Willacy HUC 8 HUC 12 Study Area (sq. mi.) 1.00	,		
Emergency Need Yes ✓ No□ Known Flood Risk History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes □ No □	# of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$10,000,000.00 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Willacy County Drainage District Willacy County Drainage District Yes ✓ No □
Study identified as a	gap by Regior	n 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Flood Mitigation Evaluations Fact Sheet

City of Lyford - Lyford detention and ditch FME ID: 151000397

improvement

FME Description Clean up and maintain exist	ting ditch as well as cre	eate additional detention on existing I	Lateral
Study Type ☐ Flood risk modeling/map ☐ Flood mitigation study		Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area City/ Cities Lyfo County/ Counties Will HUC 8 HUC 12 Study Area (sq. mi.) 1.00	acy		
Emergency Need Yes ✓ No□ Known Flood Risk History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$411,793.00 2023 2025 Yes □ No ✓		City of Lyford City of Lyford Yes ✓ No □

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG

Yes □ No ✓



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Flood Mitigation Evaluations
Fact Sheet

FME ID: 151000398

Willacy County Precinct No. 3 - Various Draiange Improvements in Bausell & Ellis

Ji alalige illipit	Jveillellis II	II Dausell & Lilis	
FME Description		l 30" RCP, and 18" RCP Culvert	
Study Type	:/mapping	☐ Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation stu	udy	☐ Feasibility Assessments	✓ Engineering Project Planning
Study Area City/ Cities			
County/ Counties	Willacy		
HUC 8			
HUC 12			
Study Area (sq. mi.)	1.00		
Emergency Ne Yes ✓ No 🗆	ed		

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$498,953.00	Study Sponsor:	Willacy County Precinct No.3
Estimated year to start:	2023	Entity with Oversight	Willacy County Precinct No.3
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes	No	✓



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Flood Mitigation Evaluations
Fact Sheet

FME ID: 151000399

Willacy County Precinct No.3 - Willamar Culvert Install and Ditch improvement

FME Description Install 60" RCP culvert and main	tain ~6,00	00 LF of th	e main storm system	
Study Type □ Flood risk modeling/mapping □ Flood mitigation study			Alternative Analysis easibility Assessments	 ☐ Flood preparedness studies ✓ Engineering Project Planning
Study Area City/ Cities				
County/ Counties Willacy				
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need Yes ✓ No 🗆				
Known Flood Risk				
History of Flooding? Population at Risk	Yes ✓		Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ Yes □	_	Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs				
Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$285 Yes [5,292.00 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Willacy County Precinct No.3 Willacy County Precinct No.3 Yes ✓ No □

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Page 1 of 2



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Flood Mitigation Evaluations Fact Sheet

FME ID: 151000400

City of Mission – Rural Alternative

FME Description

Install box culverts towards rural area of city limits.

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

Study Area

City/ Cities Mission

County/ Counties Hidalgo

HUC8

HUC 12

Study Area (sq. mi.)

Emergency Need

Yes ✓ No□

Known Flood Risk

Population at Risk Roadways flooded Critical Facilities Impacted Notes:

□ Alternative Analysis

☐ Feasibility Assessments

☐ Flood preparedness studies ✓ Engineering Project Planning



History of Flooding? Yes ✓

No 🗆 Yes ✓ No 🗆 Yes □ No □

Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted Yes

No

Study Costs

Total Cost: \$2,000.00 City of Rancho Viejo Study Sponsor: Estimated year to start: 2023 **Entity with Oversight** City of Rancho Viejo Time to complete? 2025 Included in a CIP or other plan? Yes ✓ No 🗆 Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



FME

Flood Mitigation Evaluations
Fact Sheet

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	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Flood Mitigation Evaluations
Fact Sheet

FME ID: 151000401

Willacy County Drainage District No.1- 626L "Smith Gate" addition

"Smith Gate" addition	1			
FME Description Addition of pump to move wate	r into IBV	VC floodw	ay	
Study Type □ Flood risk modeling/mapping □ Flood mitigation study			Alternative Analysis Feasibility Assessments	 ☐ Flood preparedness studies ✓ Engineering Project Planning
Study Area City/ Cities				
County/ Counties Willacy				
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need Yes ✓ No □				
Known Flood Risk				
History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ Yes ✓ Yes □	No 🗆	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$2,100 Yes [0,000.00 2023 2025 ☐ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Willacy County Drainage District Willacy County Drainage District Yes ✓ No □

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

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	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Flood Mitigation Evaluations
Fact Sheet

FME ID: 151000402

Willacy County Drainage District No.1- Los Mesquites Subdivision Connectivity

Mesquites Subdivision	on Con	nectivi	ity	
FME Description Drainage infrastructure needed	d. Connect	ivity to W(CDD1 needed.	
Study Type				
☐ Flood risk modeling/mappin☐ Flood mitigation study	g		Alternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area				
City/ Cities				
County/ Counties Willacy				
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need				
Yes ✓ No □				
Known Flood Risk				
History of Flooding? Population at Risk	Yes ✓	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded	Yes ✓	-	Miles inundated?	
Critical Facilities Impacted Notes:	Yes 🗆	No □	Agricultural Land impacted	Yes □ No □

Study Costs

Total Cost:	\$900,000.00	Study Sponsor:	Willacy County Drainage District
Estimated year to start:	2023	Entity with Oversight	Willacy County Drainage District
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study	identified a	as a gap b	v Region 15	Regional Flood	Planning Groui	o (RFPG)
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Yes	Nο	1
YPS	INO	v



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

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	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Flood Mitigation Evaluations
Fact Sheet

FME ID: 151000403

Willacy County Drainage District No.1-Sebastian Detention

Sebastian Detent	ion						
FME Description Detention facilities for Sebastian, pumping station to pump into IBWC Floodway							
Study Type							
☐ Flood risk modeling/ma☐ Flood mitigation study	apping		Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning			
Study Area							
County/ Counties W	illacy						
HUC 8							
HUC 12							
Study Area (sq. mi.) 1.	00						
Emergency Need Yes ✓ No□							
Known Flood Risl	<						
History of Flooding? Population at Risk	Yes ✓	No 🗆	Frequency of flooding: # of structures inundated				
Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ d Yes □	-	Miles inundated? Agricultural Land impacted	Yes □ No □			
Study Costs							
Total Cost: Estimated year to start: Time to complete? Funding Dedicated?		0,000.00 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Willacy County Drainage District Willacy County Drainage District Yes ✓ No □			
Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG) Yes □ No ✓							



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

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	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Flood Mitigation Evaluations
Fact Sheet

FME ID: 151000404

Willacy County Precinct No.4 - Lyford South Various Drain Ditch improvement

various brain breen improvement						
FME Description Improve ~6,000 LF of drain ditch	or swales, including	~600 LF of 18" RCP Culverts with S	.E.T.			
Study Type □ Flood risk modeling/mapping □ Flood mitigation study		ternative Analysis asibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning			
Study Area County/ Counties Willacy						
HUC 8						
HUC 12						
Study Area (sq. mi.) 1.00						
Emergency Need Yes ✓ No □						
Known Flood Risk History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □			
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$324,603.00 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Willacy County Precinct No.4 Willacy County Precinct No.4 Yes ✓ No □			
Study identified as a g	gap by Regior	n 15 Regional Flood Pla	anning Group (RFPG)			



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Flood Mitigation Evaluations
Fact Sheet

FME ID: 151000405

Willacy County Precinct No.4 - Santa Monica Various Drain Ditch improvement

FME Description Improve existing swales, inclu	uding ~750 LF of 18" RCF	P Culverts					
Study Type ☐ Flood risk modeling/mappi ☐ Flood mitigation study		ternative Analysis asibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning				
Study Area County/ Counties Willac	cy						
HUC 12							
Study Area (sq. mi.) 1.00							
Emergency Need Yes ✓ No□ Known Flood Risk History of Flooding? Population at Risk	Yes ✓ No 🗆	Frequency of flooding: # of structures inundated					
Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes □ No □	Miles inundated? Agricultural Land impacted	Yes □ No □				
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$928,345.00 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Willacy County Precinct No.4 Willacy County Precinct No.4 Yes ✓ No □				
Study identified as a	a gap by Regior	n 15 Regional Flood Pla	anning Group (RFPG)				



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Flood Mitigation Evaluations
Fact Sheet

FME ID: 151000406

Willacy County Precinct No.4 - Lateral G improvement

improvement				
FME Description improve ~24,000 LF of Lat	eral G drain dit	ch		
Study Type □ Flood risk modeling/ma □ Flood mitigation study	pping		Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies ✓ Engineering Project Planning
Study Area County/ Counties Wi	llacy			
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.0	00			
Emergency Need Yes ✓ No 🗆				
Known Flood Risk	,			
History of Flooding? Population at Risk	Yes ✓		Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ Yes □		Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs				
Total Cost: Estimated year to start: Time to complete? Funding Dedicated?		3,376.00 2023 2025 No ✓		Willacy County Precinct No.4 Willacy County Precinct No.4 Yes ✓ No □
Study identified a Yes □ No ✓	s a gap by	/ Regio	on 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





FME ID: 151000407

Willacy County Precinct No.4 - Zapata Various Drain Ditch improvement

FME Descriptio		in ditch a	nd install	60" RCP Culvert as necessary	
prove 10,000 tr 01	i iliaili arai	iii aiteii a	na mstan	oo her edivert as necessary	
Study Type					
☐ Flood risk modeling	/mapping			Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation stu				Feasibility Assessments	✓ Engineering Project Planning
Study Area					
County/ Counties	Willacy				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Ne	ed				
Yes ✓ No 🗆					
Known Flood R	lisk				
History of Flooding?		Yes ✓	No □	Frequency of flooding:	
Population at Risk				# of structures inundated	
Roadways flooded		Yes ✓	_	Miles inundated?	V
Critical Facilities Impa Notes:	стеа	Yes 🗆	NO 🗆	Agricultural Land impacted	Yes 🗆 No 🗆
Study Costs					
Total Cost:		\$2,068	8,532.00	Study Sponsor:	Willacy County Precinct No.4
Estimated year to star	t:		2023	Entity with Oversight	Willacy County Precinct No.4
Time to complete?		Voc. [2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?		Yes L	No✓	(Potential) Source of Funding	
Study identifie	d as a g	gap by	/ Regio	on 15 Regional Flood Pla	anning Group (RFPG)
Yes □ No ✓					



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





FME ID: 151000408

Alton MDP - FM 676 at Stewart Road

FME Descriptio Alton MDP - FM 676 at		Road			
Study Type					
☐ Flood risk modeling,☐ Flood mitigation stu				Alternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area					
County/ Counties	Hidalgo				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Nee Yes ✓ No 🗆	ed				
Known Flood R	isk				
History of Flooding? Population at Risk		Yes ✓		Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impac Notes:	cted	Yes ✓ Yes □		Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost: Estimated year to start Time to complete? Funding Dedicated?	::		5,000.00 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Drainage District No.1 Hidalgo County Drainage District No.1 Yes ✓ No □
Study identified	d as a g	gap by	' Regio	n 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations
Fact Sheet

FME ID: 151000409

Alternative 2A

Alternative 2A			
FME Description Alton MDP - South Stewart Bould	evard Alternative 2A		
Study Type ☐ Flood risk modeling/mapping ☐ Flood mitigation study		ternative Analysis asibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area County/ Counties Hidalgo HUC 8 HUC 12 Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No □			
Known Flood Risk History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$5,300,000.00 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Drainage District No.1 Hidalgo County Drainage District No.1 Yes ✓ No □
Study identified as a g	gap by Region	15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





FME ID: 151000410

Southwest Weslaco No.76

FME Descriptio Southwest Weslaco No					
Study Type					
☐ Flood risk modeling/☐ Flood mitigation stud				Alternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area					
County/ Counties	Hidalgo				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Nee	ed				
Known Flood Ri	sk				
History of Flooding? Population at Risk		Yes ✓	No □	Frequency of flooding: # of structures inundated	
Roadways flooded	4 a al	Yes ✓	No □	Miles inundated?	Vee 🗆 Ne 🗆
Critical Facilities Impac Notes:	tea	Yes □	NO 🗆	Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost: Estimated year to start		\$2,599	,000.00 2023	Study Sponsor: Entity with Oversight	Hidalgo County Drainage District No.1 Hidalgo County Drainage District No.1
Time to complete?	•		2025	Included in a CIP or other plan?	Yes ✓ No □
Funding Dedicated?		Yes 🗆	No ✓	(Potential) Source of Funding	
Study identified	d as a g	gap by	Regio	n 15 Regional Flood Pla	anning Group (RFPG)
Yes □ No ✓		. ,	Ü		. , ,



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations
Fact Sheet

FME ID: 151000411

Hidalgo County Colonia Stormwater Drainage Planning Study Update

Planning Study Opda	te		
FME Description			
Hidalgo County Colonia Stormw	ater Drainage Plannir	ng Study Update	
Study Type			
☐ Flood risk modeling/mapping☐ Flood mitigation study		ternative Analysis asibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area			
County/ Counties Hidalgo			
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need			
Yes ✓ No 🗆			
Known Flood Risk			
History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk Roadways flooded	Yes ✓ No 🗆	# of structures inundated Miles inundated?	
Critical Facilities Impacted Notes:	Yes □ No □	Agricultural Land impacted	Yes □ No □
Study Costs			
Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$996,000.00 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Hidalgo County Drainage District No.1 Yes ✓ No □
Study identified as a	gap by Regior	n 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations Fact Sheet

FME ID: 151000412

Cameron Colonia Stormwater Drainage Planning Study Update

FME Description Cameron Colonia Stormwate	er Drainage Planning Stud	dy Update	
Study Type			
☐ Flood risk modeling/mapp ☐ Flood mitigation study		ternative Analysis asibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area City/ Cities			
County/ Counties Came	eron County		
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No □			
Known Flood Risk			
History of Flooding? Population at Risk	Yes ✓ No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes □ No □	Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs			
Total Cost: Estimated year to start:	\$996,000.00 2023	Study Sponsor: Entity with Oversight	Cameron County Cameron County, All Cameron County Drainage Districts
Time to complete? Funding Dedicated?	2025 Yes □ No ✓	Included in a CIP or other plan? (Potential) Source of Funding	Yes ✓ No □

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended



Yes □ No ✓



Flood Mitigation Evaluations
Fact Sheet

Willacy Colonia Stormwater Drainage Planning FME ID: 151000413

Study Opdate			
FME Description			
Willacy Colonia Stormwater D	Orainage Planning Stud	dy Update	
Study Type			
☐ Flood risk modeling/mappi ☐ Flood mitigation study	=	Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area			
City/ Cities			
County/ Counties Willac	cy County		
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need			
Yes ✓ No 🗆			
Known Flood Risk			
History of Flooding? Population at Risk	Yes ✓ No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No ☐ Yes ☐ No ☐	Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs			
Total Cost: Estimated year to start:	\$500,000.00 2023	Study Sponsor: Entity with Oversight	Willacy County Willacy County, Willacy County Drainage District No.1 and 2
Time to complete? Funding Dedicated?	2025 Yes □ No ✓	Included in a CIP or other plan? (Potential) Source of Funding	Yes ✓ No 🗆
Study identified as a	a gan hy Regic	on 15 Regional Flood Pla	anning Group (REPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Flood Mitigation Evaluations

Fact Sheet

McAllen MDP- Study 1 Montecristo/Hoen Rd

McAllen MDP- Study 1 Montecristo/Hoen Rd	FME ID:	151000414
Subdivision		

Jabarrision				
FME Description Upsize existing pond Montecrist	o/Hoen [Or and Channel	ization to discharge Pond into E	xisting Drainage ditch south of AOI
Study Type ☐ Flood risk modeling/mapping ☐ Flood mitigation study			native Analysis bility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area				
City/ Cities McAllen				
County/ Counties Hidalgo				
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need Yes ✓ No 🗆				
Known Flood Risk				
History of Flooding? Population at Risk	Yes ✓	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ Yes □	No □ No □	Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs				

Total Cost:	\$9,409,947.81	Study Sponsor:	City of McAllen
Estimated year to start:	2023	Entity with Oversight	City of McAllen
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

		,
Yes	Nο	✓



RFPG Recommended

Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

	Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB Yes ✓ No ☐ guidelines?							
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov							
Rel	ated Goals							
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region					
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list					
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings					
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects					
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger					
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure					
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association					
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance					
	repeated flooding events through property buyouts		penalties; and who regulate development in the future conditions floodplain					





FME ID: 151000415

McAllen MDP - Study 2 Shary Rd & 6MI Intersection

FME Description One pond upstream of Shary Rd & 6 Mile Rd intersection. South of existing Drainage Ditch								
Study Type ☐ Flood risk modeling ☐ Flood mitigation stu			ulternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering				
Study Area								
City/ Cities	McAllen							
County/ Counties	Hidalgo							
HUC 8								
HUC 12								
Study Area (sq. mi.)	1.00							
Emergency New Yes ✓ No□	Emergency Need Yes ✓ No □							
Known Flood R History of Flooding? Population at Risk Roadways flooded Critical Facilities Impanotes:		Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □				
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?	t:	\$5,526,745.44 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of McAllen City of McAllen Yes ✓ No □				
Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)								

Yes □ No ✓



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations
Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	



Yes □ No ✓



Flood Mitigation Evaluations Fact Sheet

FME ID: 151000416

McAllen MDP- Study 3 SH107 East

FME Description	n						
1 large pond on State	Highway 1	07 and N 23rd	St.				
Study Type							
☐ Flood risk modeling	/manning		□ Alternative Analysis	☐ Flood preparedness studies			
☐ Flood mitigation stu			□ Alternative Analysis□ Flood preparedness studi✓ Preliminary Engineering				
Study Area							
City/ Cities	McAllen						
County/ Counties	Hidalgo						
HUC 8							
HUC 12							
Study Area (sq. mi.)	1.00						
Emergency Ne	ed						
Yes ✓ No 🗆							
Known Flood R	isk						
History of Flooding?		Yes ✓ No 🗆	' '				
Population at Risk Roadways flooded		Yes ✓ No 🗆	# of structures inundate Miles inundated				
Critical Facilities Impa	cted	Yes No					
Study Costs							
Total Cost:		\$9,632,611.2	23 Study Sponso	or: City of McAllen			
Estimated year to star Time to complete?	t:	202 202	, .				
Funding Dedicated?		Yes 🗆 No					
Study identified	d as a g	gap by Reg	gion 15 Regional Flood I	Planning Group (RFPG)			



RFPG Recommended

Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

	Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB Yes ✓ No ☐ guidelines?							
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov							
Rel	ated Goals							
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region					
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list					
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings					
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects					
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger					
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure					
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association					
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance					
	repeated flooding events through property buyouts		penalties; and who regulate development in the future conditions floodplain					



Yes □ No ✓



Flood Mitigation Evaluations

FME ID: 151000417

Fact Sheet

McAllen MDP - Study 4 Betnsen Rd

FME Description	on				
•		n Rd and	Channel	Improvements on ditch east of Bents	en Rd adjecent to Irrigation Canal.
Study Type					
☐ Flood risk modeling☐ Flood mitigation stu				Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Preliminary Engineering
Study Area					
City/ Cities	McAllen				
County/ Counties	Hidalgo				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Ne	ed				
Yes ✓ No 🗆					
Known Flood R	Risk				
History of Flooding? Population at Risk		Yes ✓	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded		Yes ✓	No 🗆	Miles inundated?	
Critical Facilities Impa Notes:	cted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost:		\$15,499	9,695.67	Study Sponsor:	City of McAllen
Estimated year to star Time to complete?	rt:		2023 2025	Entity with Oversight Included in a CIP or other plan?	City of McAllen Yes ✓ No □
Funding Dedicated?		Yes 🗆		(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



RFPG Recommended

Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

	s the project missing sufficient data to assess whether the prop delines?	osed	I project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance
	repeated flooding events through property buyouts		penalties; and who regulate development in the future conditions floodplain





FME ID: 151000418

McAllen MDP - Study 5 Country Meadows Subdivison

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	1	large Detenion	Pond East	of Shary	Rd and	Mile 8	1/2.
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☐ Flood risk modeling/mapping	Alternative Analysis	Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Preliminary Engineering

Study Area

City/ Cities McAllen
County/ Counties Hidalgo

HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No 🗆	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆	No 🗆
Notes:					

Study Costs

Total Cost:	\$11,137,330.36	Study Sponsor:	City of McAllen
Estimated year to start:	2023	Entity with Oversight	City of McAllen
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Ves □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



FME

Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





Interstate 69C and McCullough St. FME ID: 151000419

			3.0.1		
FME Description Study to identify flood		n measur	es		
Study Type					
☐ Flood risk modeling☐ Flood mitigation stu				Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area					
City/ Cities	San Beni	to			
County/ Counties	Cameron	1			
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Nee	ed				
res v No 🗆					
Known Flood R	isk				
History of Flooding? Population at Risk		Yes ✓	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impac Notes:	cted	Yes ✓ Yes □		Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost: Estimated year to star: Time to complete? Funding Dedicated?	t:		0,000.00 2023 2025 No ✓	Entity with Oversight	City of San Benito City of San Benito Yes ✓ No □
Study identified	d as a {	gap by	/ Regio	on 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended





Drainage Ditch NM-102 Improvements FME ID: 151000420

FME Description

Drainage Ditch NM-102 Improvements

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☐ Flood risk modeling/mapping	 Alternative Analysis 	☐ Flood preparedness studie
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Preliminary Engineering

Study Area

City/ Cities	Edinburg
County/ Counties	Hidalgo
HUC 8	
HUC 12	
Study Area (sq. mi.)	1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆 No 🗆	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$2,252,940.00	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



FME

Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000421

Drainage Ditch NM-103 Improvements

FME Description

Drainage Ditch NM-103 Improvements

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☐ Flood risk modeling/mapping	Alternative Analysis	 Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Preliminary Engineering

Study Area

City/ Cities	Edinburg
County/ Counties	Hidalgo
HUC 8	
HUC 12	

Emergency Need

Study Area (sq. mi.) 1.00

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆 No 🗆	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$714,690.00	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



FME

Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





Flood Mitigation Evaluations

FME ID: 151000422

Drainage Ditch NM-105 Improvements

Fact Sheet

FME Description

Drainage Ditch NM-105 Improvements

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☐ Flood risk modeling/mapping	Alternative Analysis	 Flood preparedness studie
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Preliminary Engineering

Study Area

City/ Cities	Edinburg
County/ Counties	Hidalgo
HUC 8	
HUC 12	
Study Area (sq. mi.)	1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes 🗆 No
Notes:			

Study Costs

Total Cost:	\$316,053.00	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



FME

Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





FME ID: 151000423

Drainage Ditch NM-106 Improvements

FME Description

Drainage Ditch NM-106 Improvements

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☐ Flood risk modeling/mapping	Alternative Analysis	 Flood preparedness studie
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Preliminary Engineering

Study Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:	
Population at Risk			# of structures inundated	
Roadways flooded	Yes ✓	No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆	No □	Agricultural Land impacted	Yes □ No□
Notes:				

Study Costs

Total Cost:	\$252,623.00	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓





FME

Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





Drainage Ditch NM-108 Improvements FME ID: 151000424

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Drainage Ditch NM-108 Improvements

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☐ Flood risk modeling/mapping	Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Preliminary Engineering

Study Area

Edinburg	City/ Cities		
Hidalgo	County/ Counties		
	HUC 8		
	HUC 12		
1.00	Study Area (sq. mi.)		

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

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History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$631,950.00	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes □ No ✓



FME

Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





Flood Mitigation Evaluations Fact Sheet

FME ID: 151000425

Drainage Ditch NM-109 Improvements

FME Description

Drainage Ditch NM-109 Improvements

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☐ Flood risk modeling/mapping	 Alternative Analysis 	☐ Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Preliminary Engineering

Study Area

City/ Cities	Edinburg
County/ Counties	Hidalgo
HUC 8	
HUC 12	

Emergency Need

Study Area (sq. mi.) 1.00

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No □	Frequency of flooding:	
Population at Risk			# of structures inundated	
Roadways flooded	Yes ✓	No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes □ No □
Notes:				

Study Costs

Total Cost:	\$883,893.00	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)





FME

Flood Mitigation Evaluations
Fact Sheet

	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remove		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: 151000426

Drainage Ditch NM-110 Improvements

Fact Sheet

FME Description

Drainage Ditch NM-110 Improvements

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☐ Flood risk modeling/mapping	Alternative Analysis	Flood preparedness studie
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Preliminary Engineering

Study Area

City/ Cities	Edinburg
County/ Counties	Hidalgo
HUC 8	
HUC 12	
Study Area (sg. mi.)	1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$452,263.00	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remove		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FME ID: 151000427

Drainage Ditch NM-113 Improvements

Fact Sheet

FME Description

Drainage Ditch NM-113 Improvements

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☐ Flood risk modeling/mapping	Alternative Analysis	 Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Preliminary Engineering

Study Area

City/ Cities	Edinburg
County/ Counties	Hidalgo
HUC 8	
HUC 12	
Study Area (sq. mi.)	1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No □	Frequency of flooding:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No □	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No □	Agricultural Land impacted	Yes 🗆	No □
Notes:					

Study Costs

Total Cost:	\$143,313.00	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Page	1	of 2	



FME

Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





Flood Mitigation Evaluations Fact Sheet

Drainage Ditch NM-115 Improvements FME ID: 151000428

FME Description

Drainage Ditch NM-115 Improvements

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☐ Flood risk modeling/mapping	 Alternative Analysis 	 Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Preliminary Engineering

Study Area

City/ Cities	Edinburg	
County/ Counties	Hidalgo	
HUC 8		
HUC 12		

Emergency Need

Study Area (sq. mi.) 1.00

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ I	No □	Frequency of flooding:	
Population at Risk			# of structures inundated	
Roadways flooded	Yes ✓ I	No □	Miles inundated?	
Critical Facilities Impacted	Yes 🗆 I	No □	Agricultural Land impacted	Yes □ No □
Notes:				

Study Costs

Total Cost:	\$596,720.00	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)





FME

Flood Mitigation Evaluations
Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		
Yes	□ No ✓		





Flood Mitigation Evaluations
Fact Sheet

Drainage Ditch NM-116 Improvements FME ID: 151000429

FME Description

Drainage Ditch NM-116 Improvements

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☐ Flood risk modeling/mapping	Alternative Analysis	☐ Flood preparedness studie
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Preliminary Engineering

Study Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$134,467.00	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)





FME

Flood Mitigation Evaluations
Fact Sheet

	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remove		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Flood Mitigation Evaluations Fact Sheet

FME ID: 151000430

Drain A Detention

FME Description

Drain A Detention

Study Type

- ☐ Flood risk modeling/mapping
- ☐ Flood mitigation study

- ☐ Alternative Analysis ☐ Feasibility Assessments
- ☐ Flood preparedness studies ✓ Engineering Project Planning

Study Area

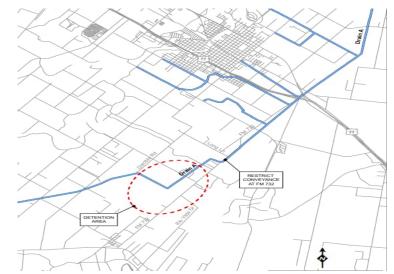
City/ Cities

County/ Counties Cameron

HUC8

HUC 12

Study Area (sq. mi.)



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted

Yes ✓ No 🗆 Yes □ No □

No 🗆

2023

2025

Yes ✓

Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted Yes □ No □

Study Costs

Notes:

Total Cost:

\$3,100,000.00 Estimated year to start: Time to complete? Funding Dedicated? Yes □ No ✓

Study Sponsor: **Entity with Oversight** Included in a CIP or other plan? (Potential) Source of Funding

Cameron County Drainage District No. 3 Cameron County Drainage District No. 3

Yes ✓ No 🗆

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





FME ID: 151000431

Fact Sheet

Tier 3 Urban Stormwater Model Development

8: City of San Juan Flood Mitigation Project	
Development	

Development				
FME Description Tier 3 Urban Stormwater Model	Develop	ment 8: City	of San Juan Flood Mitigation Proje	ect Development
Study Type □ Flood risk modeling/mapping □ Flood mitigation study			ernative Analysis sibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area City/ Cities San Juan				
County/ Counties Hidalgo				
HUC 8				
HUC 12				
Study Area (sq. mi.) 4.00				
Emergency Need Yes ✓ No□				
Known Flood Risk				
History of Flooding? Population at Risk	Yes ✓		Frequency of flooding: # of structures inundated	
Roadways flooded	Yes ✓		Miles inundated?	
Critical Facilities Impacted Notes:	Yes 🗆	NO 🗆	Agricultural Land impacted	Yes □ No □
Study Costs				
Total Cost:			Study Sponsor:	City of San Juan
Estimated year to start:		2023	Entity with Oversight	City of San Juan

Total Cost:		Study Sponsor:	City of San Juan
Estimated year to start:	2023	Entity with Oversight	City of San Juan
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes	Nο	./
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RFPG Recommended

Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

	s the project missing sufficient data to assess whether the prop delines?	osed	I project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance
	repeated flooding events through property buyouts		penalties; and who regulate development in the future conditions floodplain



Yes □ No ✓



Flood Mitigation Evaluations Fact Sheet

Starr County Hazard Mitigation Plan Action #18 FME ID: 151000432

FME Description Widen Arroyo Los Mo		ek) to im	prove wat	er flow and prevent flooding	
Study Type ☐ Flood risk modeling ☐ Flood mitigation stu				Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area City/ Cities	Escobares	s			
County/ Counties	Starr				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Never Yes ✓ No □	ed				
Known Flood R	lisk				
History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:		Yes ✓ Yes ✓ Yes □	No □ No □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No
Study Costs Total Cost: Estimated year to star Time to complete? Funding Dedicated?		Yes [0,000.00 2023 2025 No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Starr County Starr County Yes ✓ No □
Study identifie	d as a g	gap by	/ Regio	on 15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes ✓ No 🗆



Yes □ No ✓



Flood Mitigation Evaluations

FME ID: 151000433

Fact Sheet

City of Pharr - Pharr Drain Ditch Expansion

FME Description Expand drain ditches throughou	ut the City to increase	e outfall to the HCDDNo. 1 System	
Study Type ☐ Flood risk modeling/mapping	·	Itarnativa Analysis	□ Elond proparedness studies
☐ Flood mitigation study		lternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area			
City/ Cities Pharr			
County/ Counties Hidalgo			
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No□			
Known Flood Risk			
History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk Roadways flooded	Yes ✓ No 🗆	# of structures inundated Miles inundated?	
Critical Facilities Impacted Notes:	Yes □ No □	Agricultural Land impacted	Yes □ No □
Study Costs			
Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$11,615,064.00 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	City of Pharr City of Pharr Yes ✓ No □
-	-	, ,	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



RFPG Recommended

Yes ✓ No 🗆

FME

Flood Mitigation Evaluations
Fact Sheet

	s the project missing sufficient data to assess whether the prop delines?	osed	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Fact Sheet

FME ID: 151000434 Donna Irrigation District - FM 1423 Ditch Rehab Project 1

•			
FME Description			
Improve drainage/irrigation dito	h on FM1423 south	of Business 83 to improve capacity	
Study Type			
		Itawa atiwa Awalisaia	
☐ Flood risk modeling/mapping☐ Flood mitigation study		Alternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area			
City/ Cities Donna			
County/ Counties Hidalgo			
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need			
Yes ✓ No 🗆			
Known Flood Risk			
History of Flooding? Population at Risk	Yes ✓ No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded	Yes ✓ No 🗆	# of structures mundated Miles inundated?	
Critical Facilities Impacted Notes:	Yes No No		Yes □ No □
Study Costs			
Total Cost:	\$881,047.00	Study Sponsor:	Donna Irrigation District
Estimated year to start:	2023	Entity with Oversight	Donna Irrigation District
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations
Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





Fact Sheet

Donna Irrigation District - FM 1423 Ditch Rehab FME ID: 151000435 Project 2

FME Description				
Improve drainage/irrigation dito	h on FM1	L423 betw	veen Elm & Pine to improve capacity	
Study Type				
☐ Flood risk modeling/mapping			Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study			Feasibility Assessments	✓ Engineering Project Planning
Study Area				
City/ Cities Donna				
County/ Counties Hidalgo				
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need Yes ✓ No□				
Known Flood Risk				
History of Flooding? Population at Risk	Yes ✓	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded	Yes ✓	No \square	Miles inundated?	
Critical Facilities Impacted Notes:	Yes 🗆	No □	Agricultural Land impacted	Yes □ No □
Study Costs				
Total Cost:	\$38	8.318.00	Study Sponsor:	Donna Irrigation District

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Included in a CIP or other plan?

(Potential) Source of Funding

Entity with Oversight Donna Irrigation District

Yes ✓ No 🗆

2023

2025

Yes □ No ✓

Yes □ No ✓

Estimated year to start:

Time to complete?

Funding Dedicated?



FME

Flood Mitigation Evaluations Fact Sheet

Yes	✓ No □		
	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended		





Flood Mitigation Evaluations Fact Sheet

FME ID: 151000436

Drain J01 Improvements

FME Description Extension of Ditch J01 west			
Study Type			
☐ Flood risk modeling/mapping☐ Flood mitigation study		ternative Analysis asibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area City/ Cities			
County/ Counties Hidalgo			
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need Yes ✓ No□			
Known Flood Risk			
History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ No □ Yes ✓ No □ Yes □ No □	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs			
Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	\$8,610,000.00 2023 2025 Yes □ No ✓	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Drainage District No.1 Hidalgo County Drainage District No.1 Yes ✓ No □
Study identified as a Yes □ No ✓	gap by Regior	n 15 Regional Flood Pla	anning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	



Yes □ No ✓



Flood Mitigation Evaluations Fact Sheet

Mercedes Lateral Improvements FME ID: 151000437

	•				
FME Description					
Study Type					
☐ Flood risk modeling☐ Flood mitigation stu				rnative Analysis ibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area					
City/ Cities	Mercede	s			
County/ Counties	Hidalgo				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency New Yes ✓ No □	ed				
Known Flood R	lisk				
History of Flooding? Population at Risk Roadways flooded Critical Facilities Impa Notes:	cted	Yes ✓ No I Yes ✓ No I Yes □ No I		Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes No
Study Costs					
Total Cost: Estimated year to star Time to complete? Funding Dedicated?	t:	20	023	Study Sponsor: Entity with Oversight Included in a CIP or other plan? (Potential) Source of Funding	Hidalgo County Drainage District No.1 Hidalgo County Drainage District No.1 Yes ✓ No □
Study identifie	d as a g	gap by Re	gion	15 Regional Flood Pla	anning Group (RFPG)



FME

Flood Mitigation Evaluations
Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

	s the project missing sufficient data to assess whether the prop delines?	oseo	d project has a negative effect, per TWDB Yes ✓ No □
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov		
Rel	ated Goals		
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain		Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts		future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes ✓ No 🗆





FME ID: 151000438

Fact Sheet

Panchitas outfall structure BP 6

Yes □ No ✓

FME Description Rehab of the outfall structure, including concrete embankment replacement							
Study Type □ Flood risk modeling/ □ Flood mitigation stud			☐ Alternative Ana☐ Feasibility Asses	=	☐ Flood preparedness studies ✓ Engineering Project Planning		
County/ Counties HUC 8 HUC 12	Lyford Hidalgo 1.00						
Known Flood Ri History of Flooding? Population at Risk Roadways flooded Critical Facilities Impact Notes:		Yes ✓ No □ Yes ✓ No □ Yes □ No □	# of st	equency of flooding: tructures inundated Miles inundated? tural Land impacted	Yes No		
Study Costs Total Cost: Estimated year to start: Time to complete? Funding Dedicated?	:	\$3,060,000.0 202 202 Yes \(\text{No.st}	3 E 5 Included in	Study Sponsor: ntity with Oversight a CIP or other plan? I) Source of Funding	Hidalgo County Drainage District No.1 Hidalgo County Drainage District No.1 Yes ✓ No □		

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
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RFF	PG Recommended	





FME ID: 151000439

Fact Sheet

Pharr-McAllen Lateral Bond Project 9

Study Type					
☐ Flood risk modeling/mapping☐ Flood mitigation study				Alternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area					
City/ Cities	Pharr, Mo	Allen			
County/ Counties	Hidalgo				
HUC 8					
HUC 12					
Study Area (sq. mi.)	1.00				
Emergency Nee Yes ✓ No 🗆	ed				
Known Flood R	isk				
History of Flooding? Population at Risk		Yes ✓		Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impac Notes:	cted	Yes ✓ Yes □	-	Miles inundated? Agricultural Land impacted	Yes □ No □
Study Costs					
Total Cost: Estimated year to start Time to complete?	t:	\$5,660	0,000.00 2023 2025	Study Sponsor: Entity with Oversight Included in a CIP or other plan?	Hidalgo County Drainage District No.1 Hidalgo County Drainage District No.1 Yes ✓ No □



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

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Rel	ated Goals	
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RFF	PG Recommended	





FME ID: 151000440

Fact Sheet

PSJA Drain Bond Project 16

Funding Dedicated?

Yes □ No ✓

FME Description			
2 miles of chanlle improvement	ts includes widening t	the PSJA Drain within existing Right	of Way, from Nolana to I2
Study Type			
☐ Flood risk modeling/mapping☐ Flood mitigation study		Iternative Analysis easibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area			
City/ Cities Pharr, S	an Juan, Alamo		
County/ Counties Hidalgo			
HUC 8			
HUC 12			
Study Area (sq. mi.) 1.00			
Emergency Need			
Yes ✓ No 🗆			
Known Flood Risk			
History of Flooding? Population at Risk	Yes ✓ No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded	Yes ✓ No □	Miles inundated?	
Critical Facilities Impacted Notes:	Yes □ No □	Agricultural Land impacted	Yes □ No □
Study Costs			
Total Cost:	\$1,090,000.00		Hidalgo County Drainage District No.1
Estimated year to start: Time to complete?	2023 2025	Entity with Oversight Included in a CIP or other plan?	Hidalgo County Drainage District No.1 Yes ✓ No □

(Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

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Rel	ated Goals	
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RFF	PG Recommended	





Fact Sheet

City of La Feria – Holistic HUC Flood Protection FME ID: 151000441

Study				
FME Description Develop flood risk maps for the	City of La	Feria and	develop CIP.	
Study Type ☐ Flood risk modeling/mapping ☐ Flood mitigation study			Alternative Analysis Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area City/ Cities La Feria				
County/ Counties Hidalgo				
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need Yes ✓ No 🗆				
Known Flood Risk				
History of Flooding? Population at Risk	Yes ✓		Frequency of flooding: # of structures inundated	
Roadways flooded Critical Facilities Impacted Notes:	Yes ✓ Yes □		Miles inundated? Agricultural Land impacted	Yes No
Study Costs				

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Study Sponsor: City of La Feria

City of La Feria

Yes ✓ No 🗆

Entity with Oversight

Included in a CIP or other plan?

(Potential) Source of Funding

\$1,500,000.00

Yes □ No ✓

2023

2025

Yes □ No ✓

Total Cost:

Estimated year to start:

Time to complete?

Funding Dedicated?



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





FME ID: 151000442

Fact Sheet

City of Elsa – Holistic HUC Flood Protection Study

F۱	1F	Descri	ntion
1 I V	-	DCJCII	ption

Develop flood risk maps for the City of Elsa and develop CII
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Juu	ıyı	iypc

☐ Flood risk modeling/mapping	Alternative Analysis	Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Engineering Project Planning

Study Area

City/ Cities Elsa

County/ Counties Hidalgo

HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No 🗆	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆	No 🗆
Notes:					

Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of Elsa
Estimated year to start:	2023	Entity with Oversight	City of Elsa
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





FME ID: 151000443

Fact Sheet

City of Donna – Holistic HUC Flood Protection

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Study		

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Develop flood risk maps for the City of Donna and develop CIP.

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☐ Flood risk modeling/mapping	Alternative Analysis	Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Engineering Project Planning

Study Area

City/ Cities Donna County/ Counties Hidalgo HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No	□ Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No	D ☐ Miles inundated?	
Critical Facilities Impacted	Yes 🗆 No	o ☐ Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of Donna
Estimated year to start:	2023	Entity with Oversight	City of Donna
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





Fact Sheet

City of Combes – Holistic HUC Flood Protection FME ID: 151000444

Study			
FME Descriptic Develop flood risk map	on os for the City of Combe	s and develop CIP.	
Study Type			
☐ Flood risk modeling☐ Flood mitigation stu		☐ Alternative Analysis☐ Feasibility Assessments	☐ Flood preparedness studies ✓ Engineering Project Planning
Study Area City/ Cities	Combes		
County/ Counties	Cameron		
HUC 8			
HUC 12			
Study Area (sq. mi.)	1.00		
Emergency Nee Yes ✓ No 🗆	ed		

Known Flood Risk

History of Flooding?	Yes ✓	No \square	Frequency of flooding:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No 🗆	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No □	Agricultural Land impacted	Yes 🗆	No □
Notes:					

Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of Combes
Estimated year to start:	2023	Entity with Oversight	City of Combes
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

		,
Yes	Nο	✓



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
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Rel	ated Goals	
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	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





Fact Sheet

City of Edinburg – Holistic HUC Flood Protection F Study

FME ID:	151000445

FME Description

Develop flood risk maps for the City of Edinburg and develop CIP.

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☐ Flood risk modeling/mapping	Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Engineering Project Planning

Study Area

City/ Cities **Edinburg**County/ Counties **Hidalgo**HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No 🗆	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆	No 🗆
Notes:					

Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





FME ID: 151000446

Fact Sheet

City of Alton – Holistic HUC Flood Protection Study

F	N /	IF	Des	cri	nti	ion
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	Develop flood	risk maps for	the City of Alton	and develop CIP
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Develop Hood Hak Ha	ps for the city of 7	atton and develop on .	
Study Type			
☐ Flood risk modeling☐ Flood mitigation st		Alternative AnalysisFeasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area City/ Cities	Alton		
County/ Counties	Hidalgo		
HUC 8			

Emergency Need

HUC 12

Study Area (sq. mi.) 1.00

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No 🗆	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆	No 🗆
Notes:					

Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of Alton
Estimated year to start:	2023	Entity with Oversight	City of Alton
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





Flood Mitigation Evaluations Fact Sheet

FME ID: 151000447

Cameron County – Holistic HUC Flood **Protection Study**

FME Description	on		
Develop flood risk ma	ps for the Came	eron County and develop CIP.	
o 			
Study Type			
☐ Flood risk modeling	g/mapping	Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study		☐ Feasibility Assessments	✓ Engineering Project Planning
Study Area			
City/ Cities			
County/ Counties	Cameron		
HUC 8			
HUC 12			
Study Area (sq. mi.)	1.00		

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No 🗆	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆	No 🗆
Notes:					

Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	Cameron County
Estimated year to start:	2023	Entity with Oversight	Cameron County
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap	by Region 15 Regional	Flood Planning Group ((RFPG)
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Yes	No	✓



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
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	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





Fact Sheet

City of Woslaco - Holistic HLIC Flood Protection

City of Weslaco – Holistic HUC Flood Protection	FME ID:	151000448
Study		

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Develop flood risk maps for the City of Weslaco and develop CIP.

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☐ Flood risk modeling/mapping	Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Engineering Project Planning

Study Area

City/ Cities Weslaco County/ Counties Hidalgo HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No 🗆	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆	No 🗆
Notes:					

Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of Weslaco
Estimated year to start:	2023	Entity with Oversight	City of Weslaco
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





Flood Mitigation Evaluations Fact Sheet

FME ID: 151000449

City of San Benito – Holistic HUC Flood Protection Study

FME Description

Develop flood	risk maps	tor the San	Benito ar	nd develop	CIP.

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☐ Flood risk modeling/mapping	 Alternative Analysis 	☐ Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Engineering Project Planning

Study Area

City/ Cities San Benito

County/ Counties Cameron

HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:	
Population at Risk			# of structures inundated	
Roadways flooded	Yes ✓	No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆 No 🗆
Notes:				

Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of San Benito
Estimated year to start:	2023	Entity with Oversight	City of San Benito
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





FME ID: 151000450

Fact Sheet

City of Mission – Holistic HUC Flood Protection

Study				
FME Description Develop flood risk maps f	or the Mission a	ind develop CIP) .	
Study Type ☐ Flood risk modeling/m ☐ Flood mitigation study			native Analysis pility Assessments	 ☐ Flood preparedness studies ✓ Engineering Project Planning
••	lission idalgo			
HUC 8 HUC 12 Study Area (sq. mi.) 1.	00			
Emergency Need Yes ✓ No□	I			
Known Flood Risl History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted Notes:	Yes ✓	No 🗆	Frequency of flooding: # of structures inundated Miles inundated? Agricultural Land impacted	Yes □ No □

Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

		,
Yes	Nο	✓



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





Flood Mitigation Evaluations Fact Sheet

FME ID: 151000451

City of Palmhurst – Holistic HUC Flood Protection Study

FME Description

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Develop flood	risk mans	for the Pa	lmhurst and	d develop CIP.

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☐ Flood risk modeling/mapping	Alternative Analysis	Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Engineering Project Planning

Study Area

City/ Cities Palmhurst

County/ Counties Hidalgo

HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$1,500,000.00 Study Sponsor: City of Palmhurst Estimated year to start: 2023 Entity with Oversight City of Palmhurst Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \square Funding Dedicated? Yes \square No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





Flood Mitigation Evaluations Fact Sheet

FME ID: 151000452

City of Palmview – Holistic HUC Flood Protection Study

FME Description

Develop flood	risk mans f	or the Palm	iview and de	velon CIP.

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☐ Flood risk modeling/mapping	Alternative Analysis	☐ Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Engineering Project Planning

Study Area

City/ Cities Palmview
County/ Counties Hidalgo
HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Study Costs

Total Cost: \$1,500,000.00 Study Sponsor: City of Palmview Estimated year to start: 2023 Entity with Oversight City of Palmview Time to complete? 2025 Included in a CIP or other plan? Yes \checkmark No \Box Funding Dedicated? Yes \Box No \checkmark (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
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	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
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	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





Fact Sheet

City of Primera – Holistic HUC Flood Protection FME ID: 151000453

Study				
FME Description Develop flood risk maps for the	Primera a	and develop CIP		
Study Type				
☐ Flood risk modeling/mapping☐ Flood mitigation study	3		native Analysis ility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area				
City/ Cities Primera				
County/ Counties Camero	n			
HUC 8				
HUC 12				
Study Area (sq. mi.) 1.00				
Emergency Need Yes ✓ No 🗆				
Known Flood Risk				
History of Flooding? Population at Risk	Yes ✓	No 🗆	Frequency of flooding: # of structures inundated	
Roadways flooded	Yes ✓	No 🗆	Miles inundated?	
Critical Facilities Impacted Notes:	Yes 🗆	No □	Agricultural Land impacted	Yes □ No □

Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of Primera
Estimated year to start:	2023	Entity with Oversight	City of Primera
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Veς	Nο	✓



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
	Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





FME ID: 151000454

Fact Sheet

City of Mercedes – Holistic HUC Flood

Protection Study

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Develop flood risk maps for the City of Mercedes and develop C
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☐ Flood risk modeling/mapping	 Alternative Analysis 	☐ Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Engineering Project Planning

Study Area

City/ Cities Mercedes County/ Counties Hidalgo

HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:	
Population at Risk			# of structures inundated	
Roadways flooded	Yes ✓	No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆 No 🗆
Notes:				

Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of Mercedes
Estimated year to start:	2023	Entity with Oversight	City of Mercedes
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
	Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
	Increase participation in the regional flood planning process	Increase use of nature-based flood risk reduction projects
	Provide regional detention that could be used for water reuse applications or as part of a floodplain management program	Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
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	Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
	Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement
	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





Flood Mitigation Evaluations Fact Sheet

FME ID: 151000455

City of Los Fresnos – Holistic HUC Flood Protection Study

FME Description Develop flood risk ma		os Fresnos and develop CIP.	
Study Type	, .		
☐ Flood risk modeling/mapping☐ Flood mitigation study		☐ Alternative Analysis☐ Feasibility Assessments	☐ Flood preparedness studies✓ Engineering Project Planning
Study Area			
City/ Cities	Los Fresnos		
County/ Counties	Hidalgo		
HUC 8			
HUC 12			
Study Area (sq. mi.)	1.00		
Emergency Ne	ed		

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No \square	Frequency of flooding:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No 🗆	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆	No □
Notes:					

Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of Los Fresnons
Estimated year to start:	2023	Entity with Oversight	City of Los Fresnos
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

guio	s the project missing sufficient data to assess whether the prop delines?	
	s the project recommended by the RFPG to be studied in order enefit cost ratio or the number of structures the project remov	
Rel	ated Goals	
✓	Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	Increase the # of entities that adopt higher than NFIP-minimum standards
	Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	Develop and maintain an operational stormwater asset management plan
	Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
	Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	Increase the # of entities that have multi-year drainage CIP list
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





FME ID: 151000456

Fact Sheet

City of La Villa – Holistic HUC Flood Protection

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Develop flood risk maps for the City of La Villa and develop CIP.

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☐ Flood risk modeling/mapping	Alternative Analysis	Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Engineering Project Planning

Study Area

City/ Cities La Villa County/ Counties Hidalgo HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No	□ Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No	D ☐ Miles inundated?	
Critical Facilities Impacted	Yes 🗆 No	o ☐ Agricultural Land impacted	Yes □ No □
Notes:			

Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of La Villa
Estimated year to start:	2023	Entity with Oversight	City of La Villa
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

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Rel	ated Goals	
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	Reduce the # of structures that have been subject to repeated flooding events through property buyouts	future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFF	PG Recommended	





FME ID: 151000457

Fact Sheet

City of La Joya – Holistic HUC Flood Protection

Study

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Develop flood risk maps for the City of La Joya and develop CIP.

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☐ Flood risk modeling/mapping	 Alternative Analysis 	☐ Flood preparedness studies
☐ Flood mitigation study	☐ Feasibility Assessments	✓ Engineering Project Planning

Study Area

City/ Cities La Joya County/Counties Hidalgo HUC 8

HUC 12

Study Area (sq. mi.) 1.00

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No 🗆	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No 🗆	Agricultural Land impacted	Yes 🗆	No \square
Notes:					

Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of La Joya
Estimated year to start:	2023	Entity with Oversight	City of La Joya
Time to complete?	2025	Included in a CIP or other plan?	Yes ✓ No 🗆
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes ✓ No 🗆

FME

Flood Mitigation Evaluations Fact Sheet

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Rel	ated Goals	
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RFF	PG Recommended	