

VOLUME 2
Appendix 5-C

REGION 5 NECHES 2023 REGIONAL FLOOD PLAN

JULY 2023

DRAFT

PREPARED FOR THE
REGION 5 NECHES FLOOD PLANNING GROUP

DRAFT

**APPENDIX 5-C
FLOOD MANAGEMENT EVALUATIONS (FME), FLOOD MANAGEMENT
STRATEGIES (FMS), AND FLOOD MITIGATION PROJECT ONE-PAGERS**

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Yes Reason for Recommendation

Study Details

Study type County

Study description

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.)

- Goal(s)
- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
 - Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
 - Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
 - Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
 - Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
 - Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

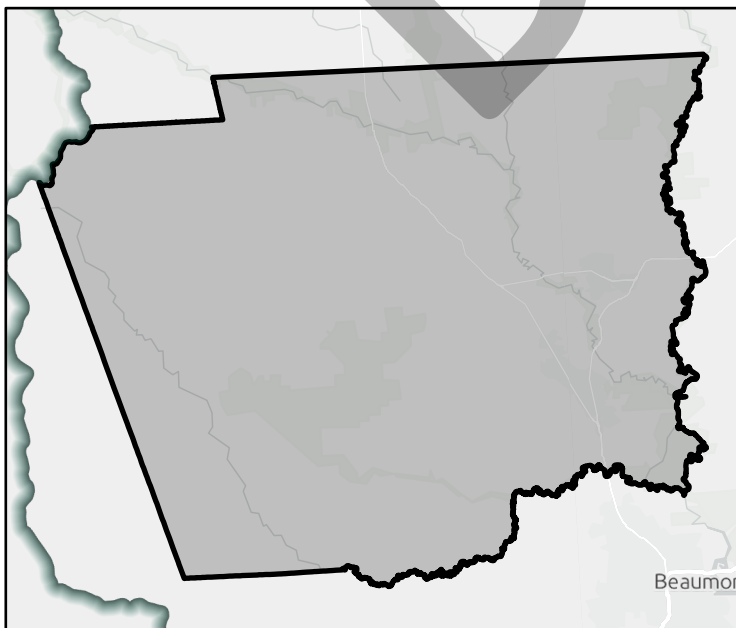
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Yes Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5



REGIONAL FLOOD PLANNING GROUP

Title **Hardin County SE Area Drainage System**

ID# **051000090** Sponsor **Hardin (County)**

Recommended by RFPG? **Yes** Reason for Recommendation **Complies with RFPG Goals**

Study Details

Study type **Project Planning** County **Hardin**

Study description **H&H study to identify alternatives for developing a large drainage system to drain Lumberton directly into the Neches River, instead of Pine Island Bayou.**

FME to create new H&H model? **Yes** Emergency Need? **Yes** Anticipated models in near term? **Yes** Drainage area (sq. mi., est.) **888**

Goal(s) **Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.**
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk **10,528** # of structures **3,678** # of critical facilities **25**

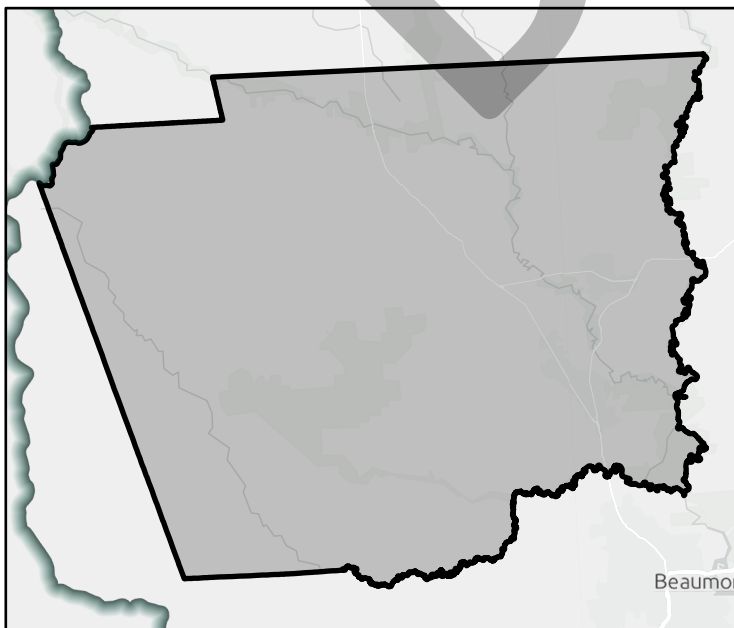
Flood risk type: Riverine? **Yes** Coastal? **No** Local Flooding? **No** Other? **Yes**

Farm/Ranch land impacted (ac.) **743** Roadways impacted (miles) **136**

of low water crossings **13** # of historical road closures **13**

Estimated Cost and Funding Availability

Total Cost **\$1,250,000** Potential federal funding availability? **Yes** Potential Federal Funding Sources **-**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title **Hardin County Pinewood Drainage Improvements**

ID# **051000091** Sponsor **Hardin (County)**

Recommended by RFPG? **Yes** Reason for Recommendation **Complies with RFPG Goals**

Study Details

Study type **Project Planning** County **Hardin**

Study description **H&H Study to identify alternatives for improving existing drainage within Pinewood.**

FME to create new H&H model? **Yes** Emergency Need? **Yes** Anticipated models in near term? **No** Drainage area (sq. mi., est.) **43**

- Goal(s) **Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.**
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk **1,277** # of structures **648** # of critical facilities **1**

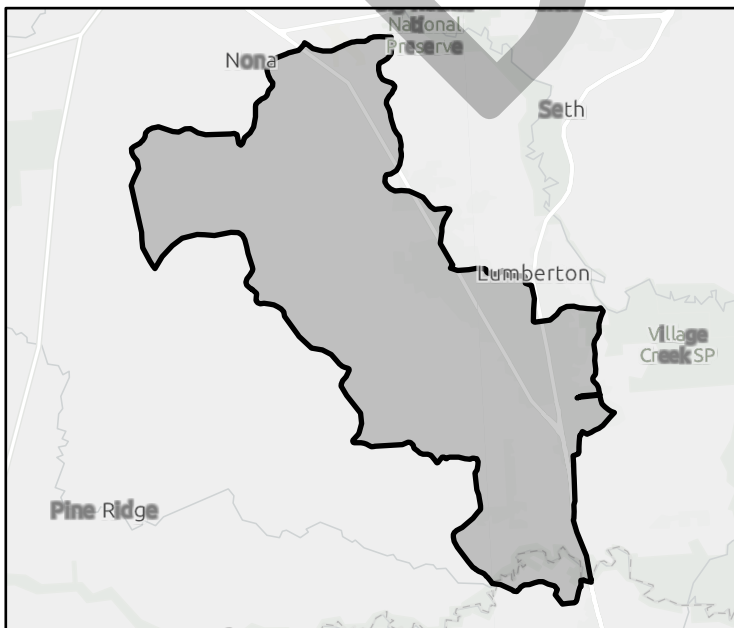
Flood risk type: Riverine? **Yes** Coastal? **No** Local Flooding? **No** Other? **Yes**

Farm/Ranch land impacted (ac.) **43** Roadways impacted (miles) **14**

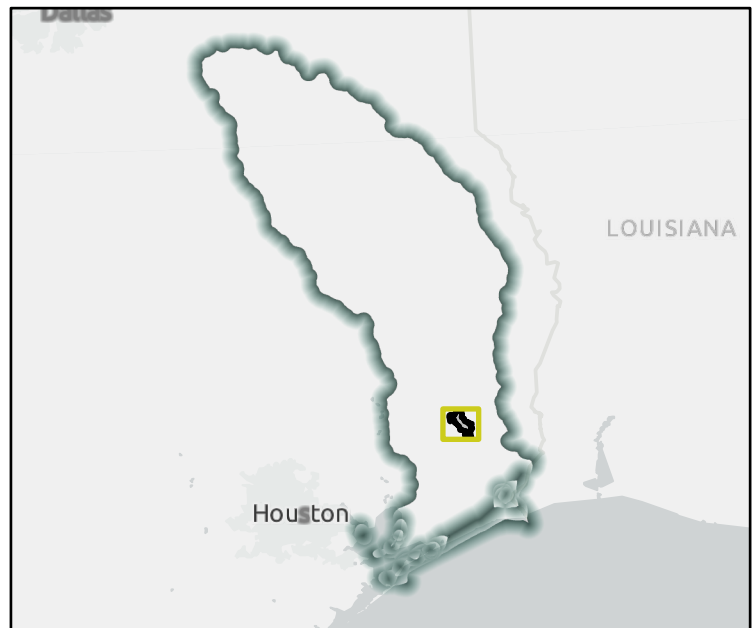
of low water crossings **0** # of historical road closures **0**

Estimated Cost and Funding Availability

Total Cost **\$350,000** Potential federal funding availability? **Yes** Potential Federal Funding Sources **-**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Reason for Recommendation

Study Details

Study type County

Study description

FME to create new H&H model? Emergency Need? Anticipated models in near term? Drainage area (sq. mi., est.)

Goal(s)

100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

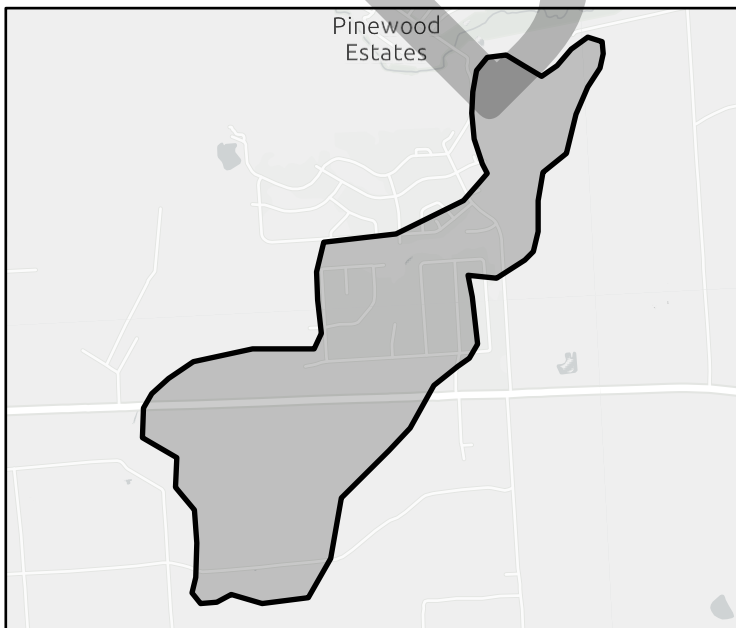
Flood risk type: Riverine? Coastal? Local Flooding? Other?

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title **Hardin County Municipal Storm Drain Project**

ID# **051000093** Sponsor **Hardin (County)**

Recommended by RFPG? **Yes** Reason for Recommendation **Complies with RFPG Goals**

Study Details

Study type **Project Planning** County **Jefferson, Hardin**

Study description **Evaluate project to quantify benefits, evaluate impacts, and begin design.**

FME to create new H&H model? **Yes** Emergency Need? **Yes** Anticipated models in near term? **No** Drainage area (sq. mi., est.) **128**

- Goal(s) **Goal 1: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.**
Goal 2: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
Goal 3: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 4: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.
Goal 5: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
Goal 6: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

100-Year Flood Risk Summary

Population at risk **10,916** # of structures **3,487** # of critical facilities **8**

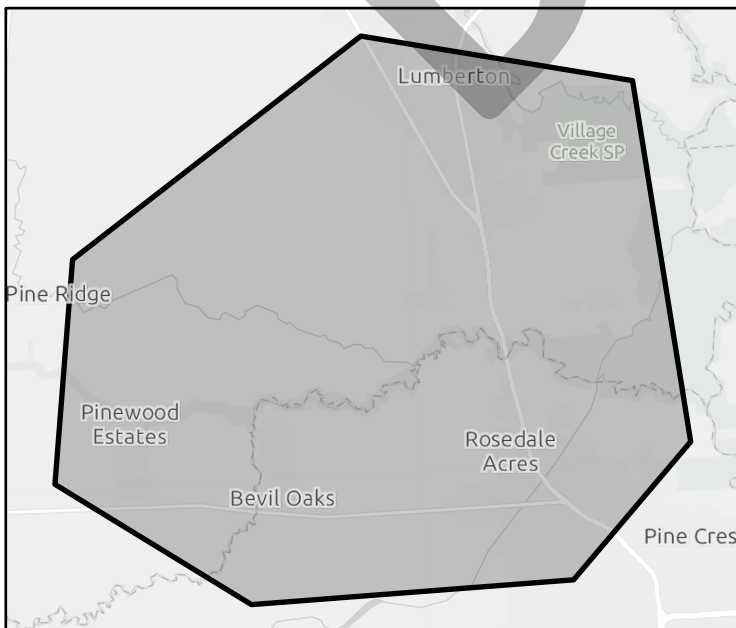
Flood risk type: Riverine? **Yes** Coastal? **No** Local Flooding? **No** Other? **Yes**

Farm/Ranch land impacted (ac.) **395** Roadways impacted (miles) **75**

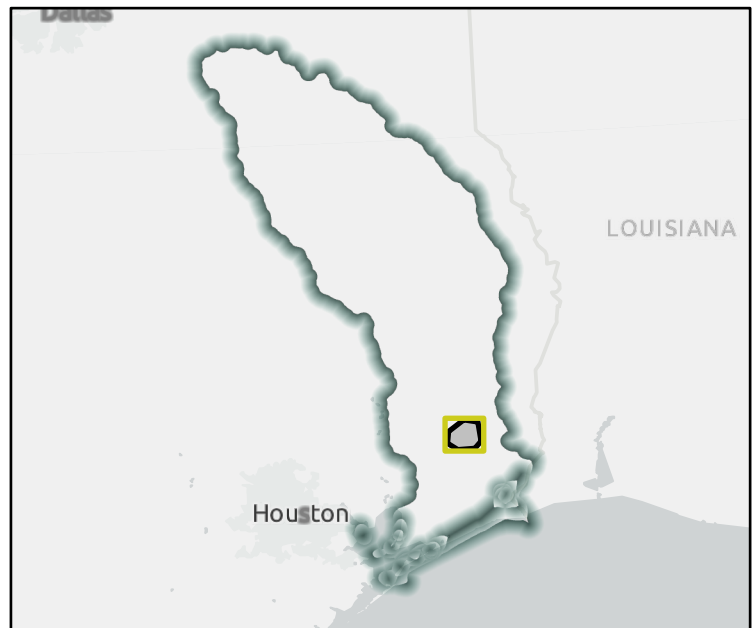
of low water crossings **5** # of historical road closures **5**

Estimated Cost and Funding Availability

Total Cost **\$2,000,000** Potential federal funding availability? **Yes** Potential Federal Funding Sources **-**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Reason for Recommendation

Study Details

Study type County

Study description

FME to create new H&H model? Emergency Need? Anticipated models in near term? Drainage area (sq. mi., est.)

Goal(s) Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
 Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

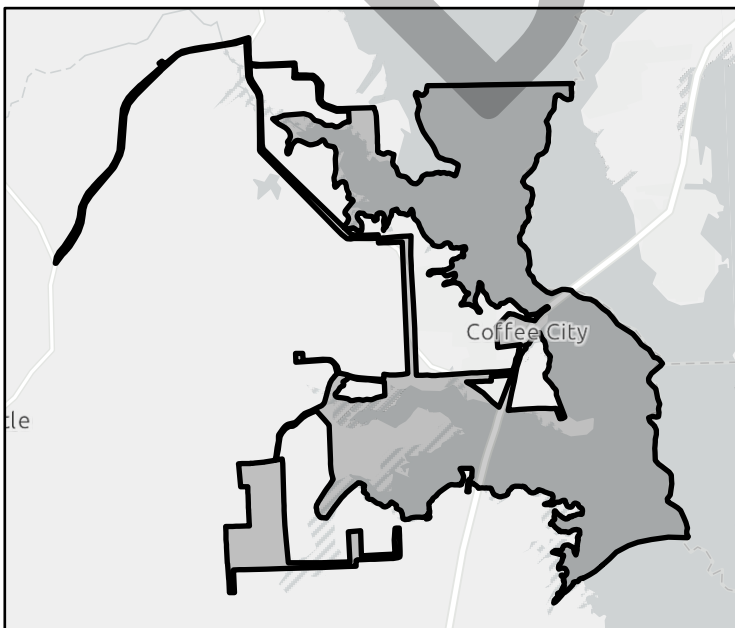
Flood risk type: Riverine? Coastal? Local Flooding? Other?

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Reason for Recommendation

Study Details

Study type County

Study description

FME to create new H&H model? Emergency Need? Anticipated models in near term? Drainage area (sq. mi., est.)

Goal(s) Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
 Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

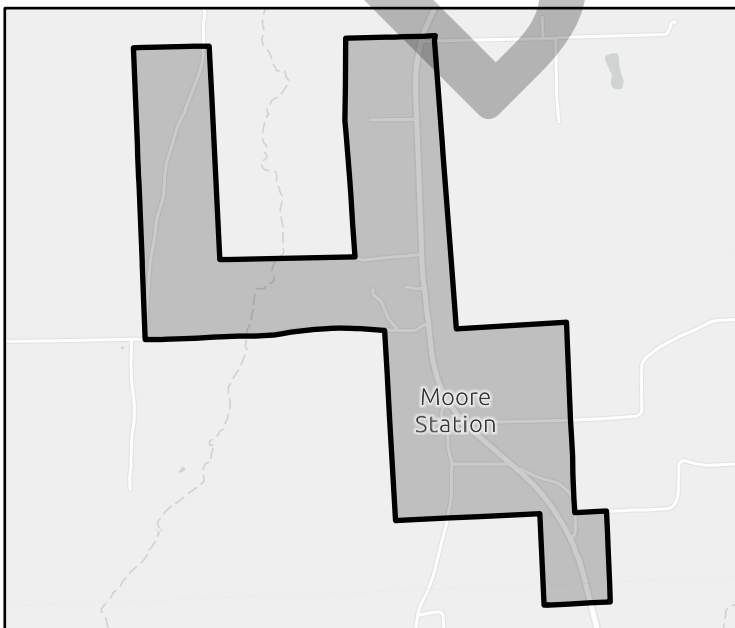
Flood risk type: Riverine? Coastal? Local Flooding? Other?

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Yes Reason for Recommendation

Study Details

Study type County

Study description

FME to create new H&H model? Yes Emergency Need? No Anticipated models in near term? Yes Drainage area (sq. mi., est.)

Goal(s)

100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

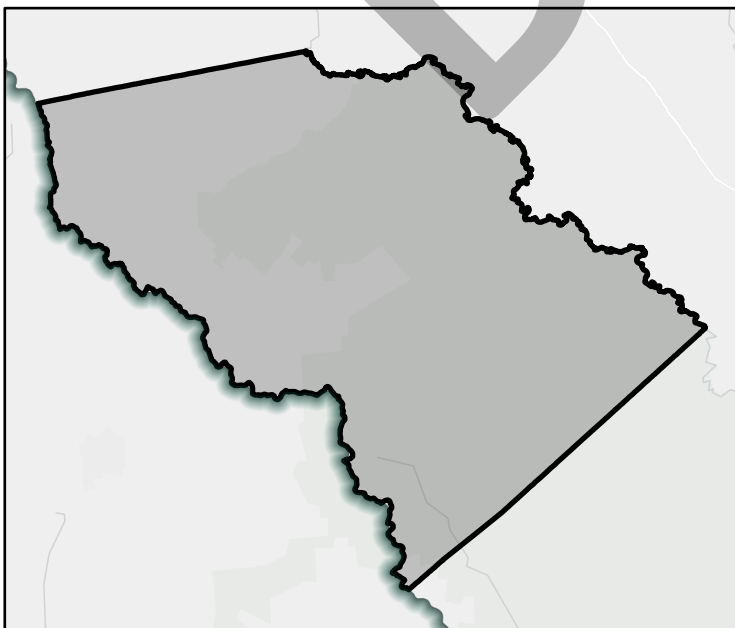
Flood risk type: Riverine? Yes Coastal? No Local Flooding? Yes Other? Yes

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Yes Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

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100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

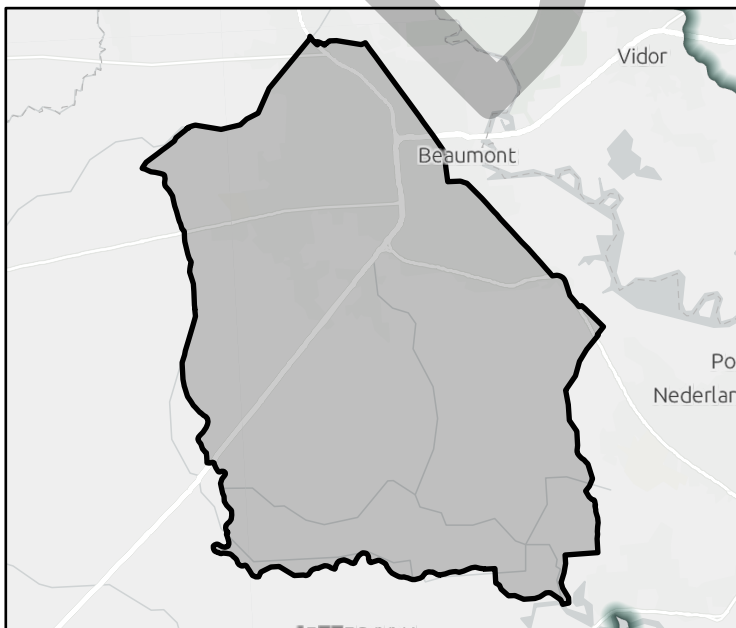
Flood risk type: Riverine? Coastal? Local Flooding? Other?

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

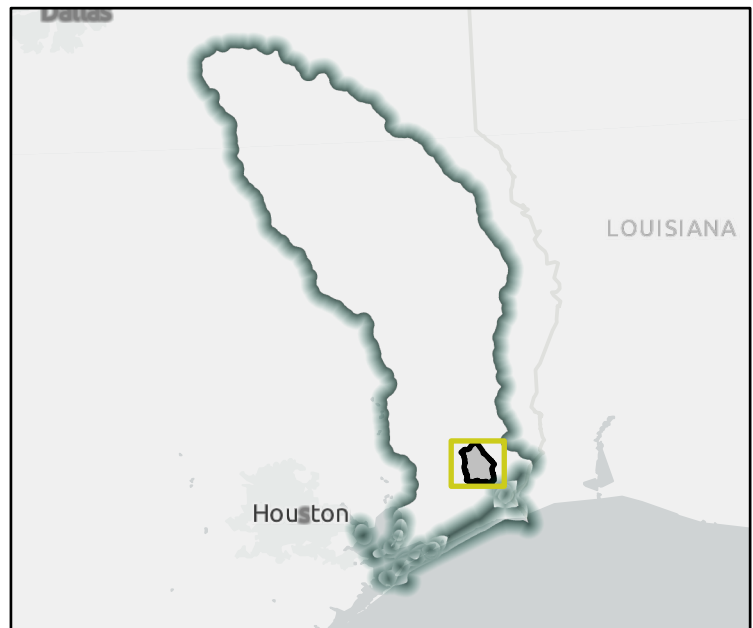
of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Yes Reason for Recommendation

Study Details

Study type County

Study description

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.)

Goal(s)

100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

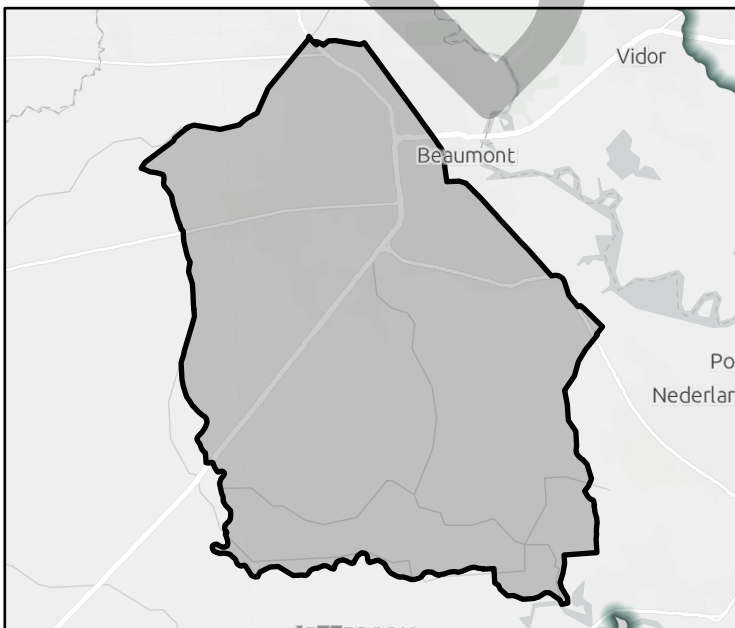
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

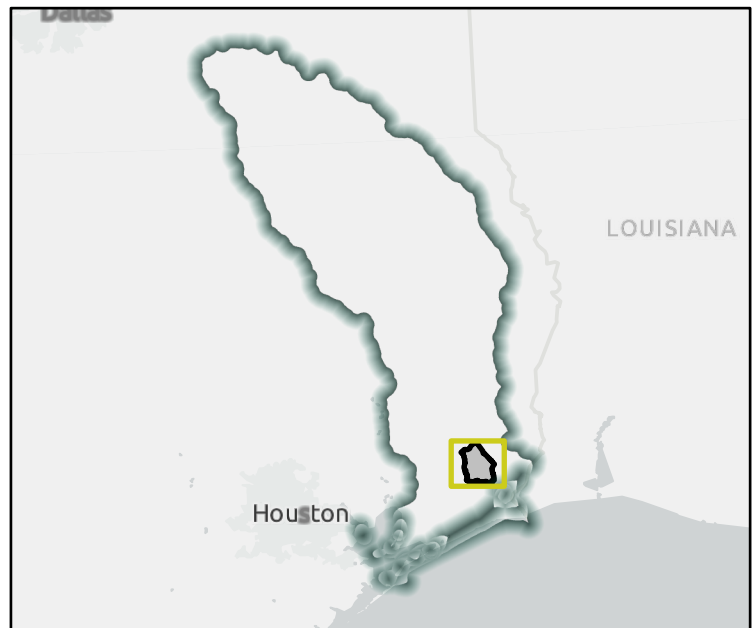
of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Yes Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Reason for Recommendation

Study Details

Study type County

Study description

FME to create new H&H model? Emergency Need? Anticipated models in near term? Drainage area (sq. mi., est.)

Goal(s)

100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

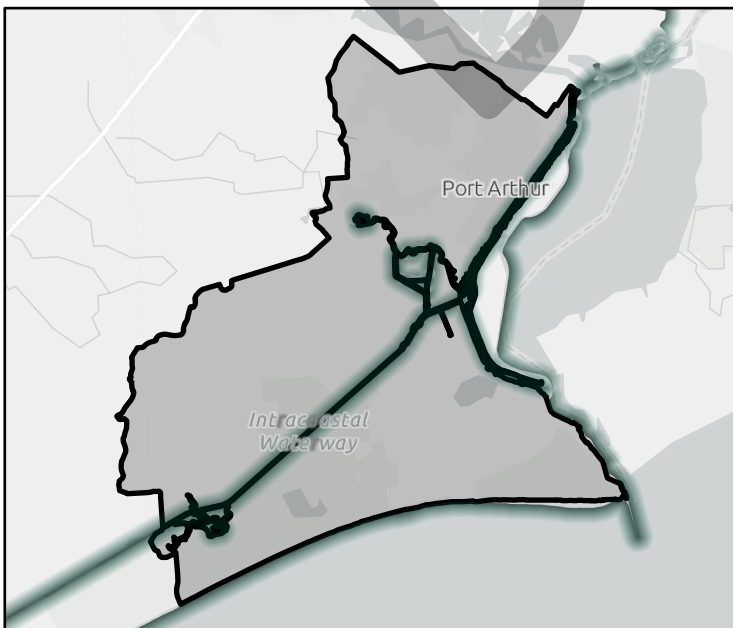
Flood risk type: Riverine? Coastal? Local Flooding? Other?

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

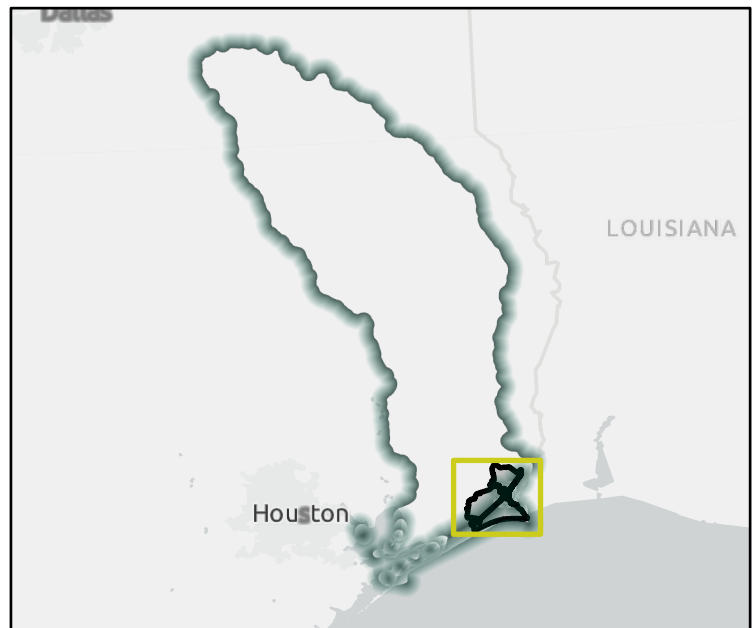
of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Yes Reason for Recommendation

Study Details

Study type County

Study description

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.)

Goal(s)

100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

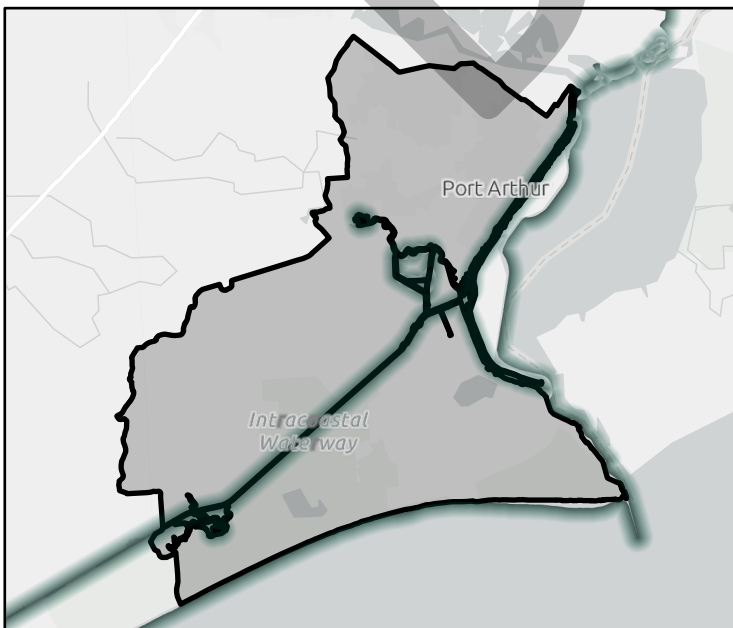
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

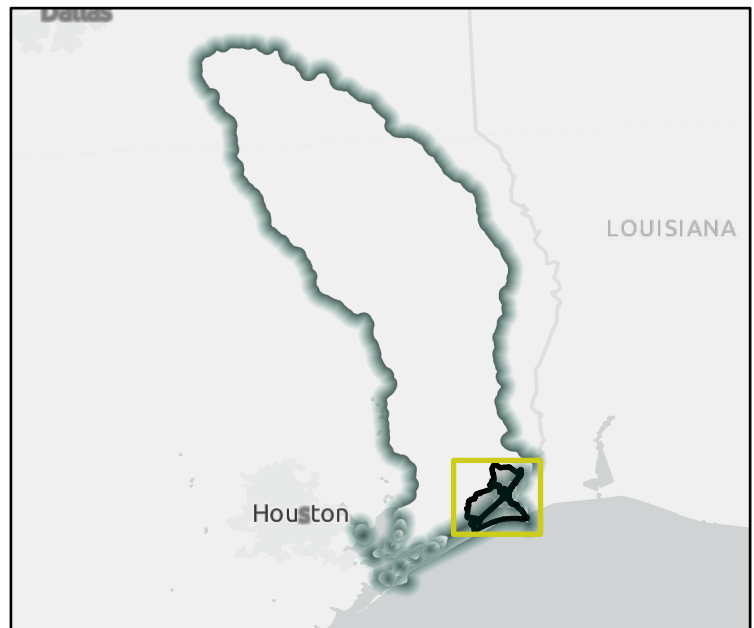
of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Yes Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title Upgrade to Lateral B4B

ID# 051000101 Sponsor Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation Complies with RFPG Goals

Study Details

Study type Project Planning County Jefferson

Study description Evaluate project to quantify benefits, evaluate impacts, and begin design. Project consists of widening those channels to increase the runoff capacity – upgrading/enlarging road crossings to reduce out of bank flooding.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 324

Goal(s) Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
 Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
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100-Year Flood Risk Summary

Population at risk 18,000 # of structures 5,013 # of critical facilities 83

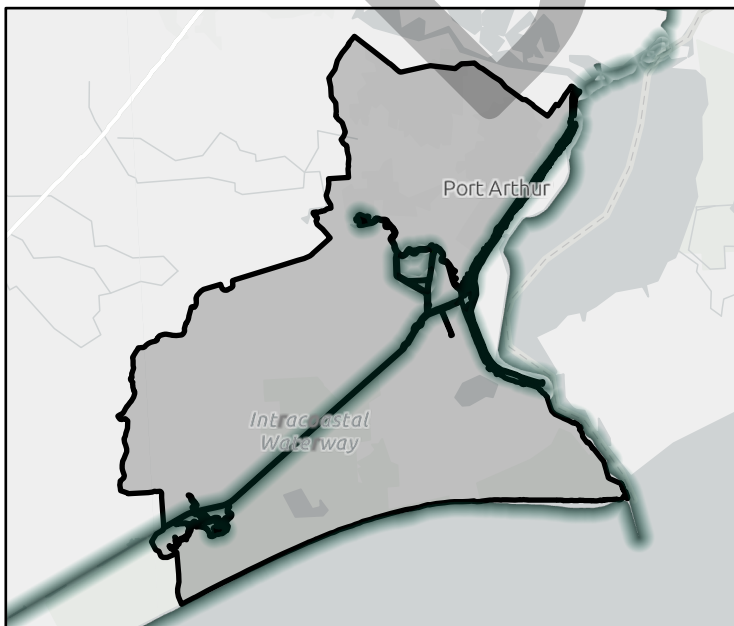
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.) 9,044 Roadways impacted (miles) 160

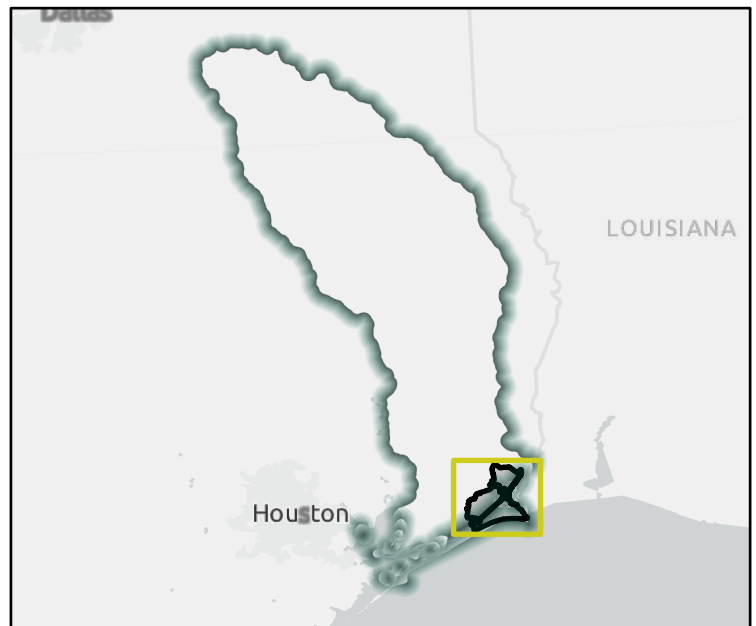
of low water crossings 3 # of historical road closures 3

Estimated Cost and Funding Availability

Total Cost \$50,000 Potential federal funding availability? Yes Potential Federal Funding Sources -



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title **Beauxart Gardens Central Ditch Improvements**

ID# **051000102** Sponsor **Jefferson County Drainage District 7**

Recommended by RFPG? **Yes** Reason for Recommendation **Complies with RFPG Goals**

Study Details

Study type **Project Planning** County **Jefferson**

Study description **Evaluate project to quantify benefits, evaluate impacts, and begin design. Project consists of widening those channels to increase the runoff capacity – upgrading/enlarging road crossings to reduce out of bank flooding.**

FME to create new H&H model? **Yes** Emergency Need? **Yes** Anticipated models in near term? **Yes** Drainage area (sq. mi., est.) **1**

- Goal(s)
- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
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100-Year Flood Risk Summary

Population at risk **480** # of structures **226** # of critical facilities **0**

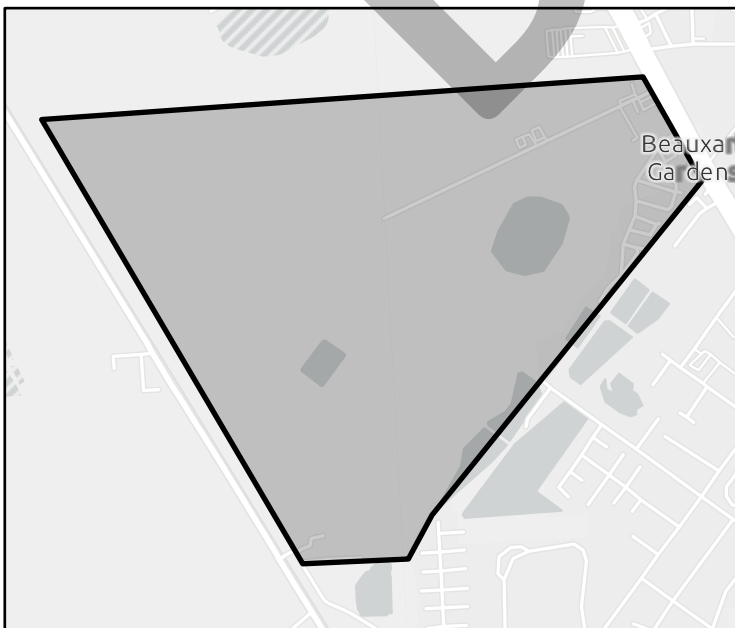
Flood risk type: Riverine? **Yes** Coastal? **No** Local Flooding? **No** Other? **Yes**

Farm/Ranch land impacted (ac.) **10** Roadways impacted (miles) **2**

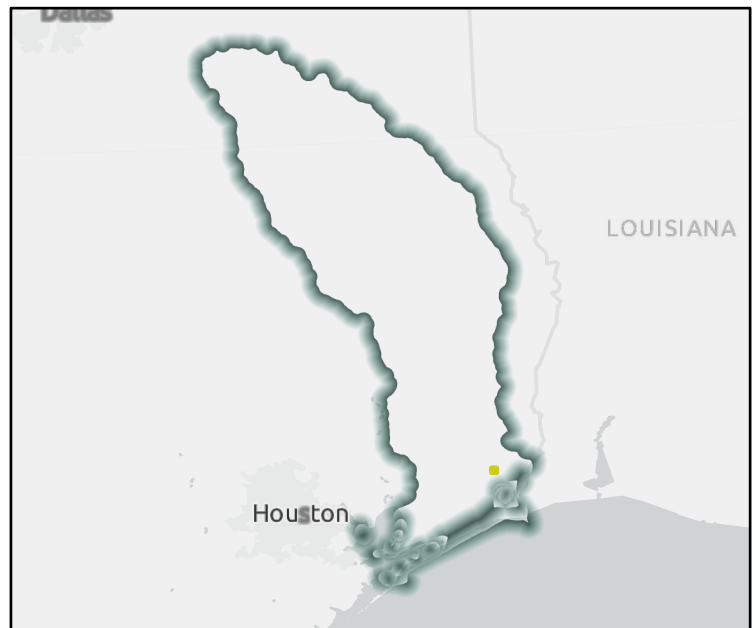
of low water crossings **0** # of historical road closures **0**

Estimated Cost and Funding Availability

Total Cost **\$50,000** Potential federal funding availability? **Yes** Potential Federal Funding Sources **-**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Yes Reason for Recommendation

Study Details

Study type County

Study description

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.)

Goal(s)

100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

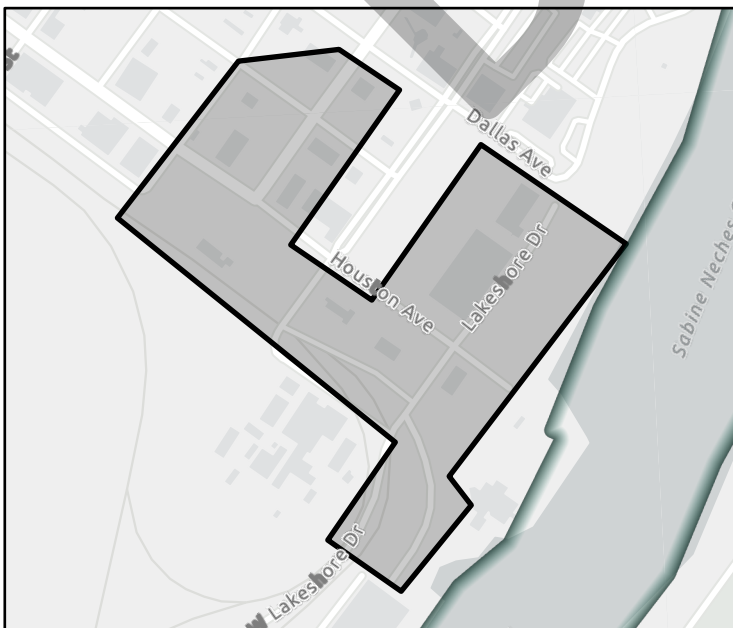
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? No

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Yes Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Reason for Recommendation

Study Details

Study type County

Study description

FME to create new H&H model? Emergency Need? Anticipated models in near term? Drainage area (sq. mi., est.)

- Goal(s)
- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
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100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

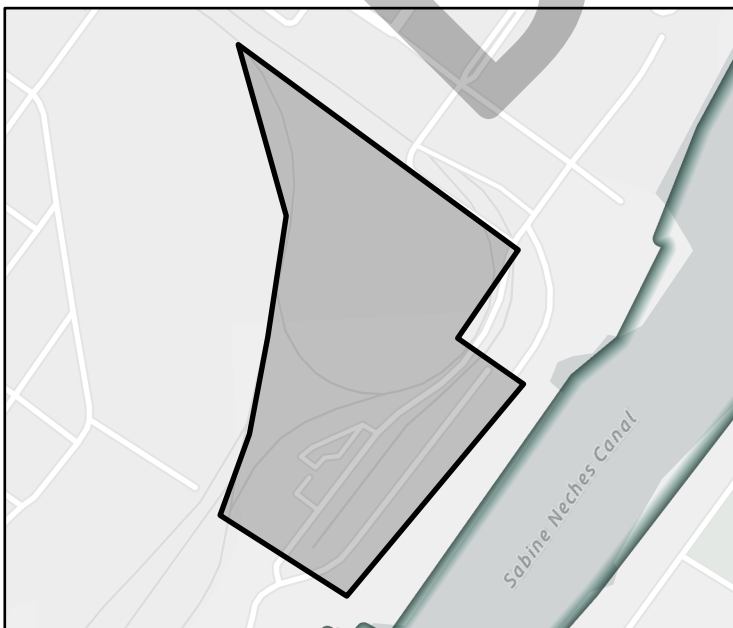
Flood risk type: Riverine? Coastal? Local Flooding? Other?

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Reason for Recommendation

Study Details

Study type County

Study description

FME to create new H&H model? Emergency Need? Anticipated models in near term? Drainage area (sq. mi., est.)

- Goal(s)
- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
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100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

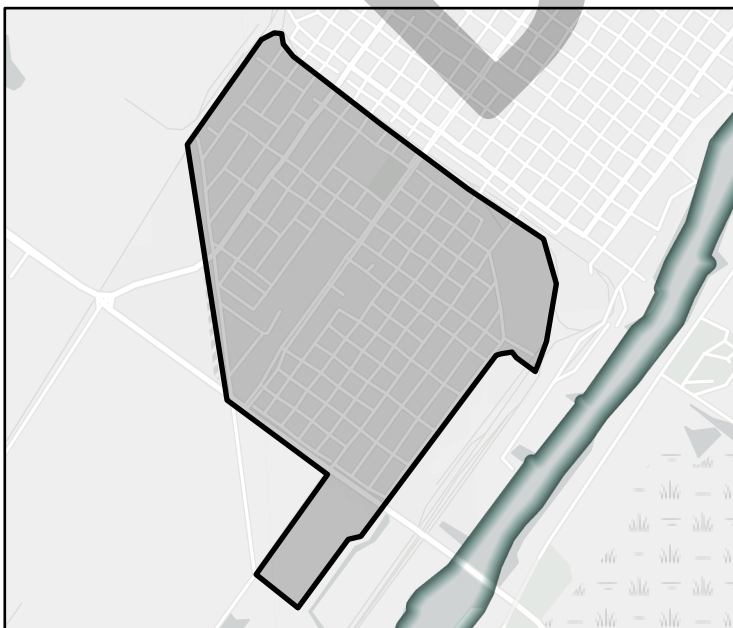
Flood risk type: Riverine? Coastal? Local Flooding? Other?

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

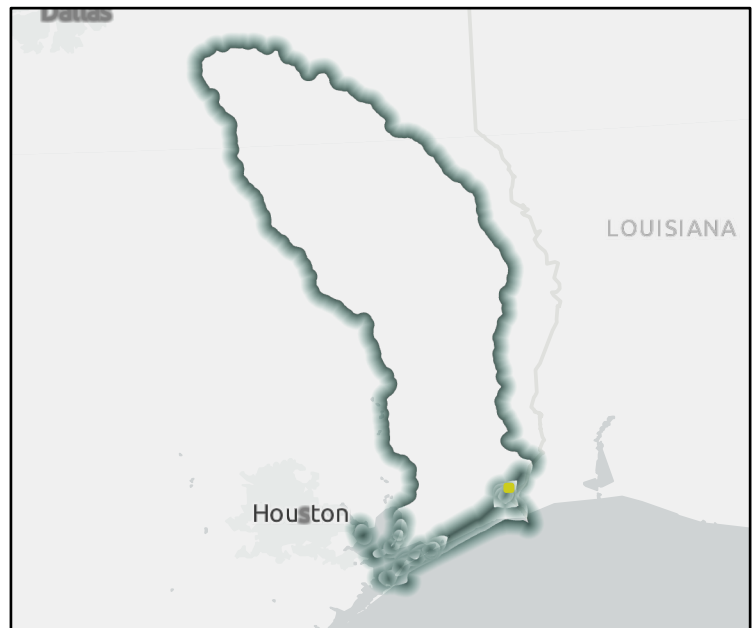
of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Yes Reason for Recommendation

Study Details

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100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

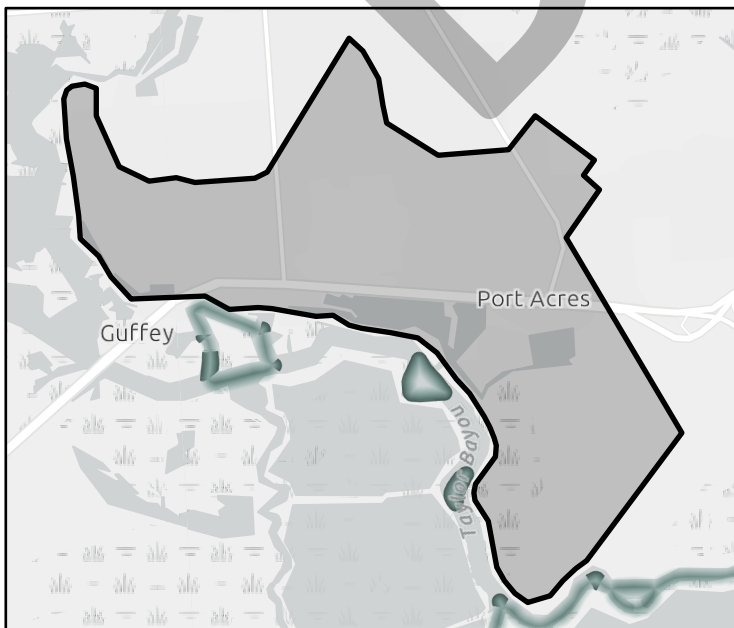
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? No

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

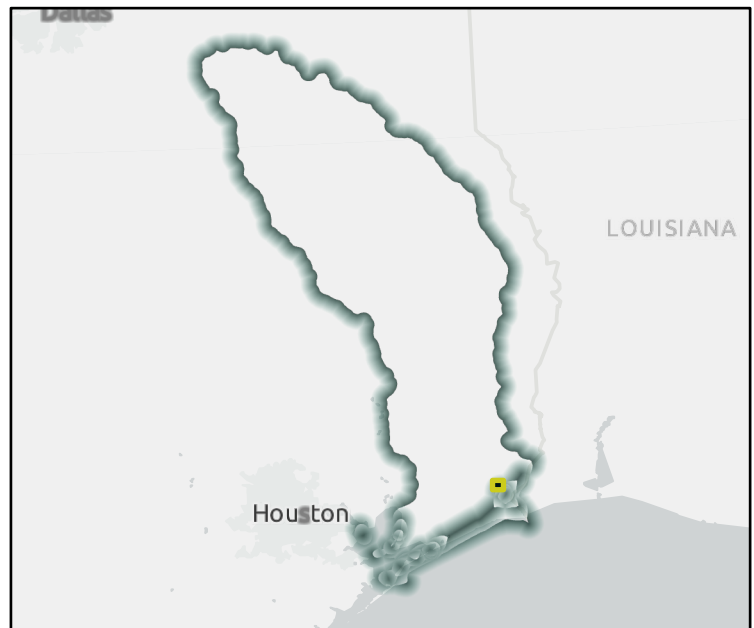
of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Yes Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Yes Reason for Recommendation

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100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

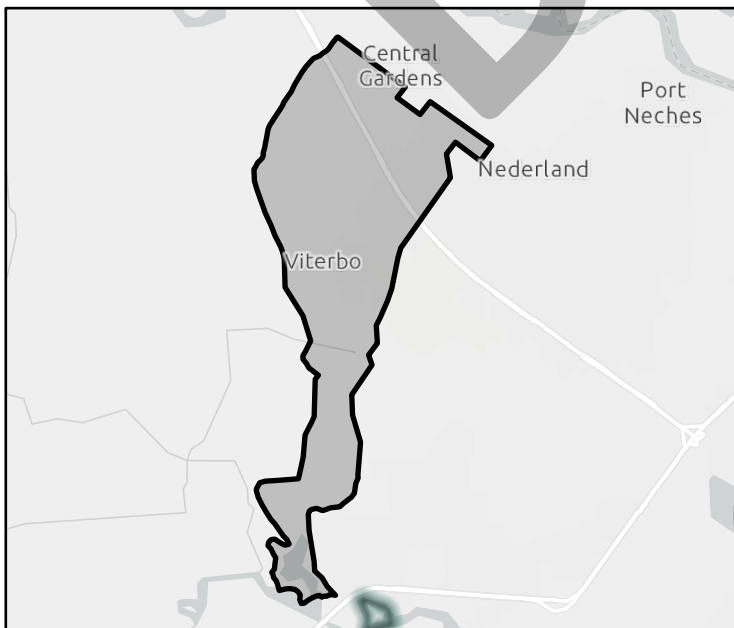
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

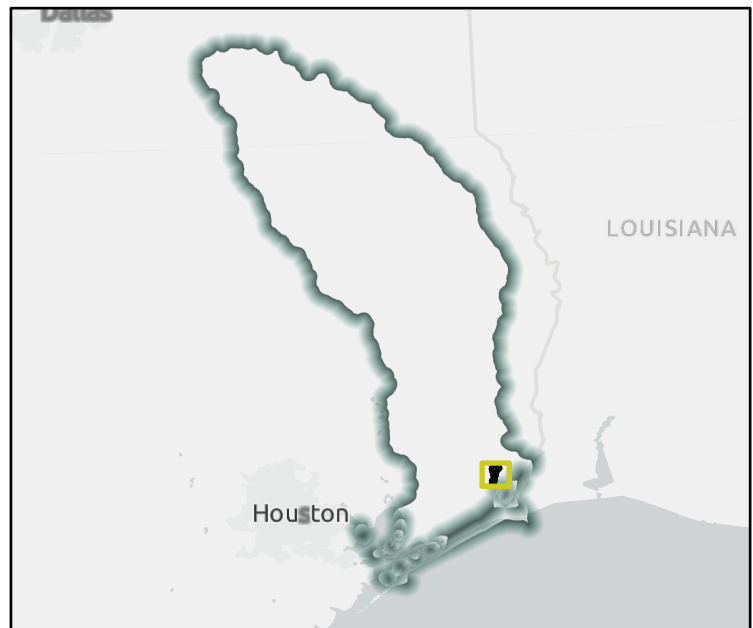
of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Yes Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Reason for Recommendation

Study Details

Study type County

Study description

FME to create new H&H model? Emergency Need? Anticipated models in near term? Drainage area (sq. mi., est.)

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100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

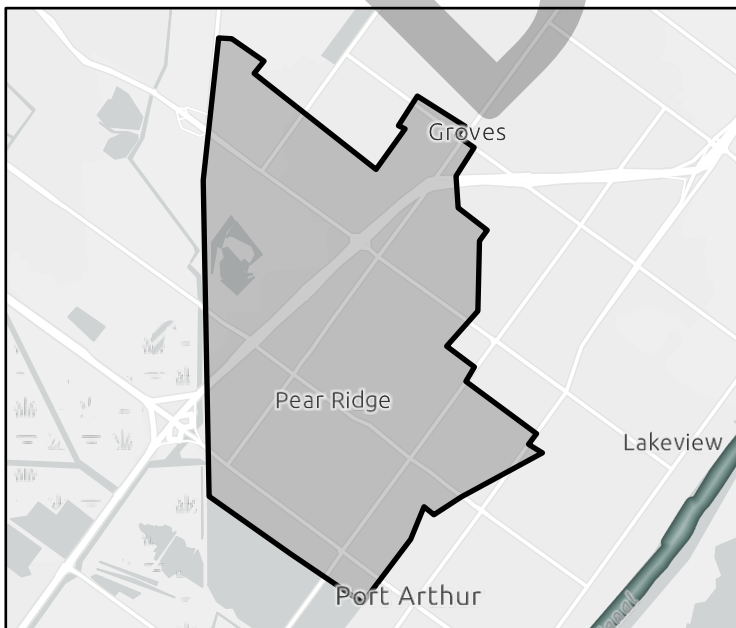
Flood risk type: Riverine? Coastal? Local Flooding? Other?

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

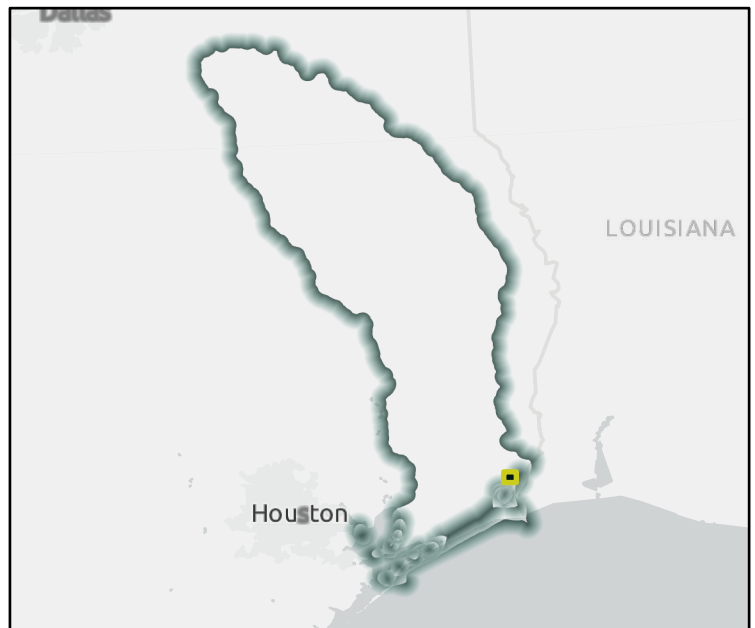
of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title Halbouty Add two pumps (open spots in structure)

ID# 051000109 Sponsor Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation Complies with RFPG Goals

Study Details

Study type Project Planning County Jefferson

Study description H&H study to size pump upgrades and improve existing level of service.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 12

- Goal(s)
- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
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100-Year Flood Risk Summary

Population at risk 1,628 # of structures 251 # of critical facilities 33

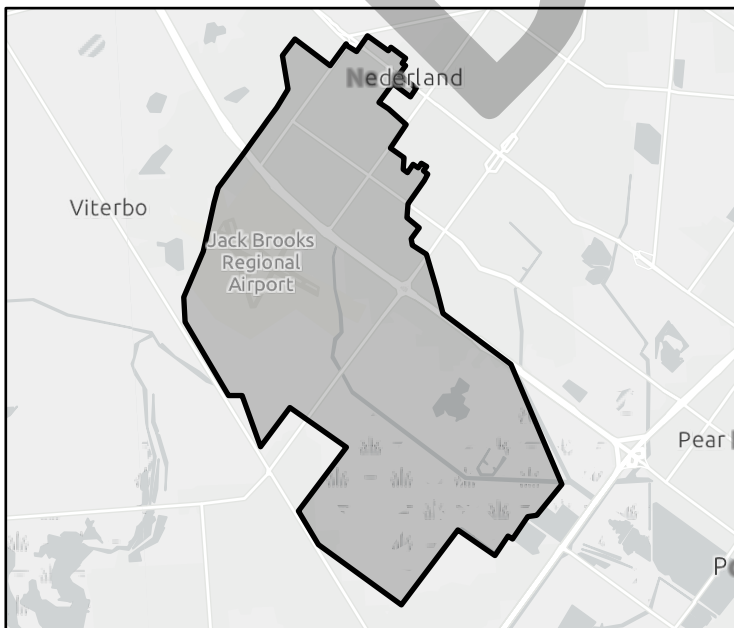
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.) 164 Roadways impacted (miles) 7

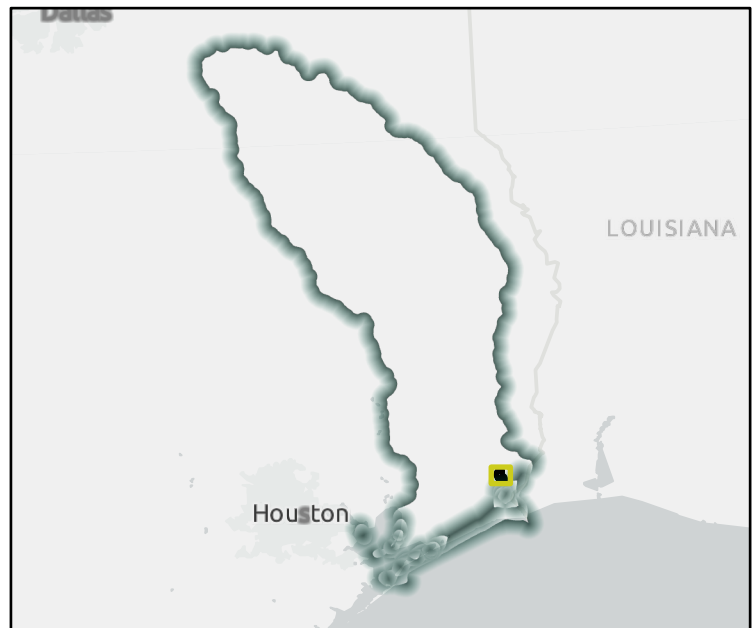
of low water crossings 0 # of historical road closures 0

Estimated Cost and Funding Availability

Total Cost \$100,000 Potential federal funding availability? Yes Potential Federal Funding Sources <Null>



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Yes Reason for Recommendation

Study Details

Study type County

Study description

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.)

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100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

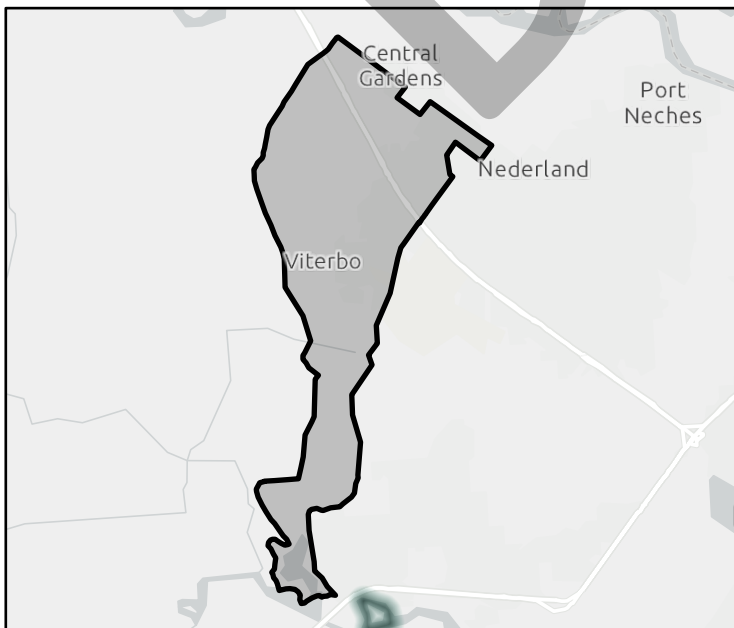
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

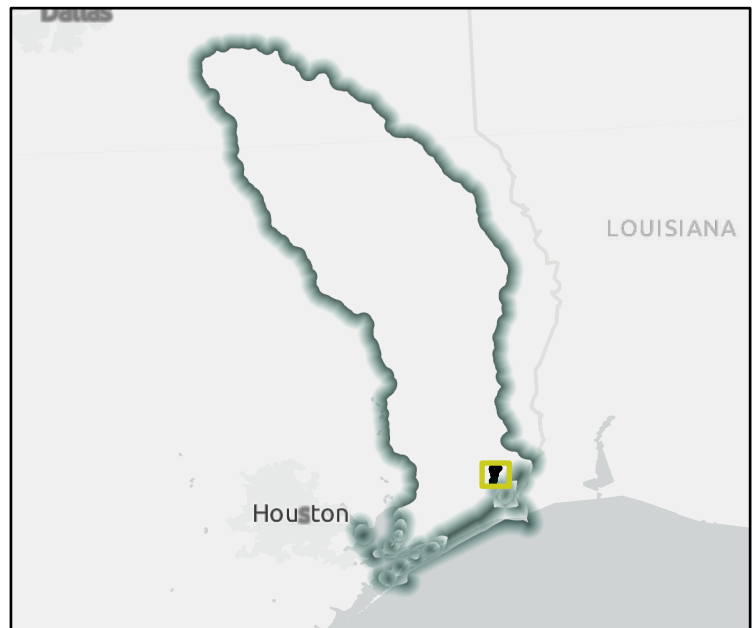
of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Yes Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Yes Reason for Recommendation

Study Details

Study type County

Study description

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.)

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100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

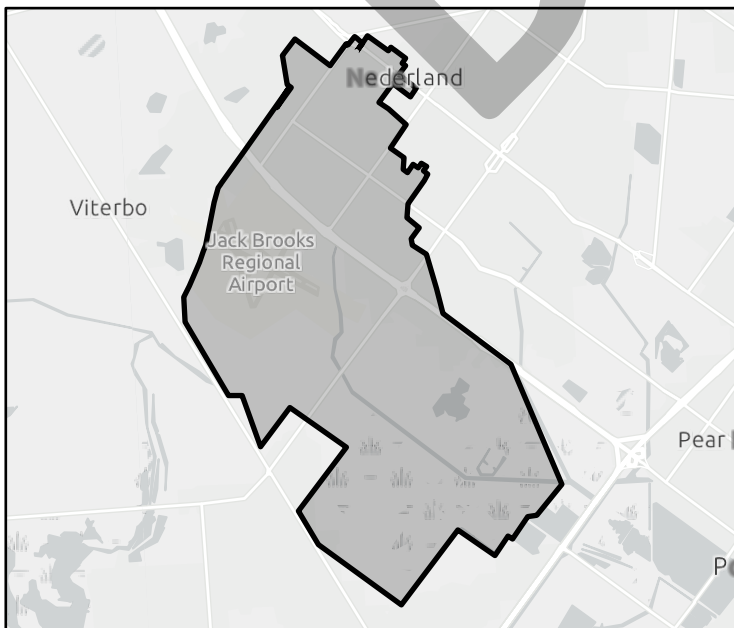
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

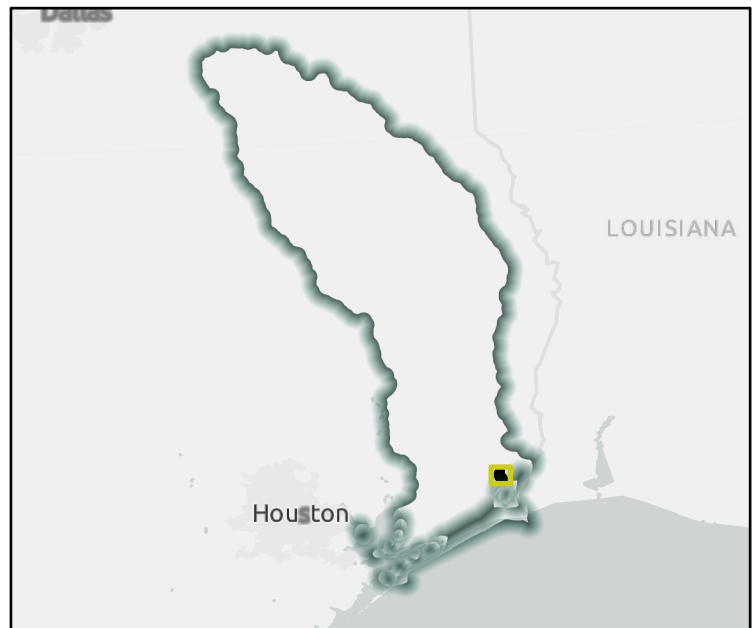
of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Yes Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Reason for Recommendation

Study Details

Study type County

Study description

FME to create new H&H model? Emergency Need? Anticipated models in near term? Drainage area (sq. mi., est.)

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100-Year Flood Risk Summary

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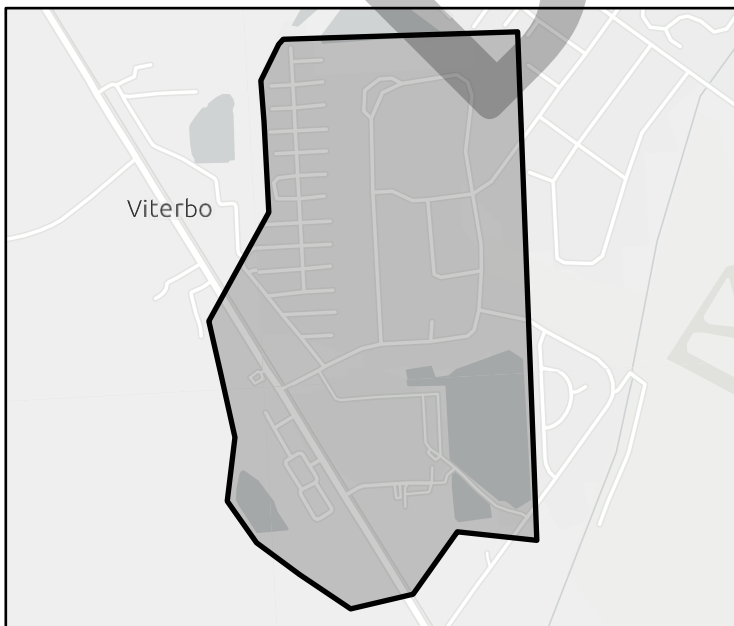
Flood risk type: Riverine? Coastal? Local Flooding? Other?

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

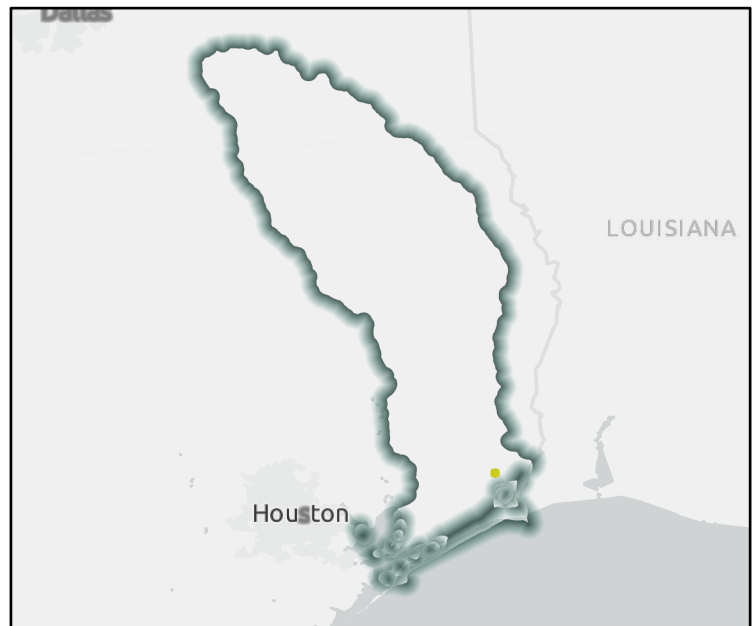
of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

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100-Year Flood Risk Summary

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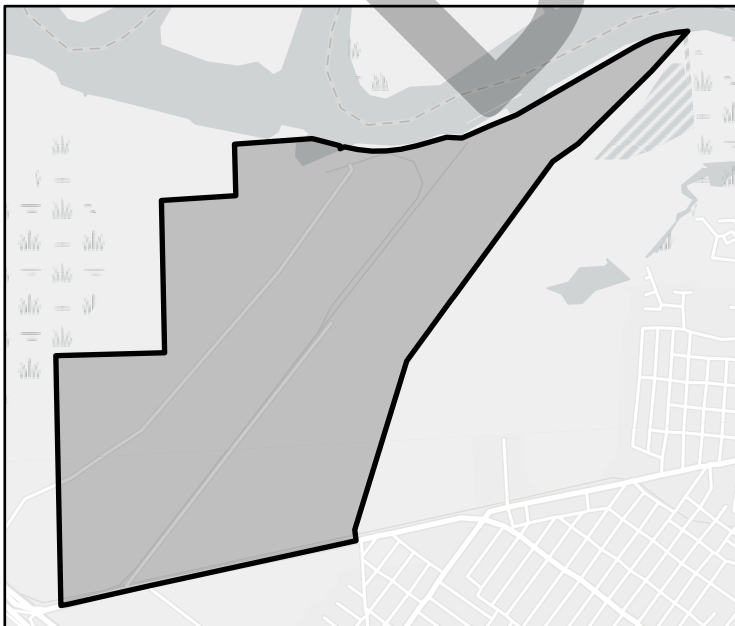
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Farm/Ranch land impacted (ac.) Roadways impacted (miles)

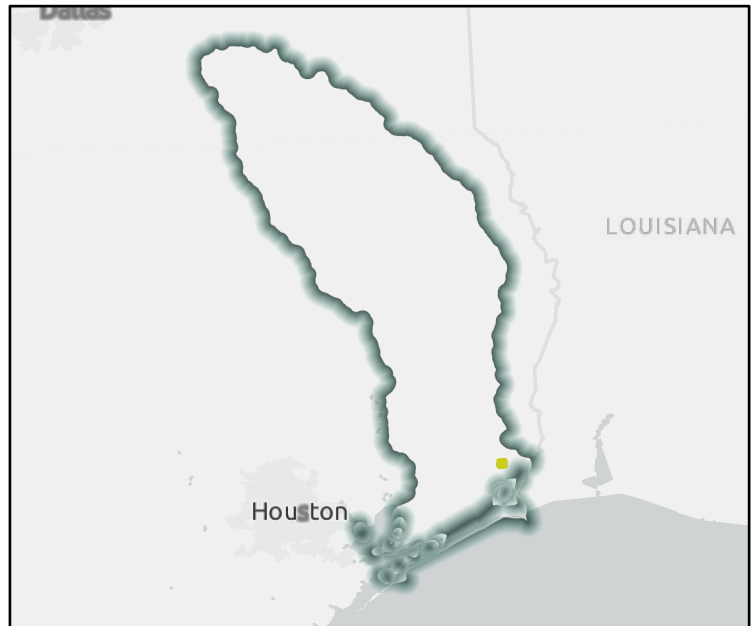
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Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Yes Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

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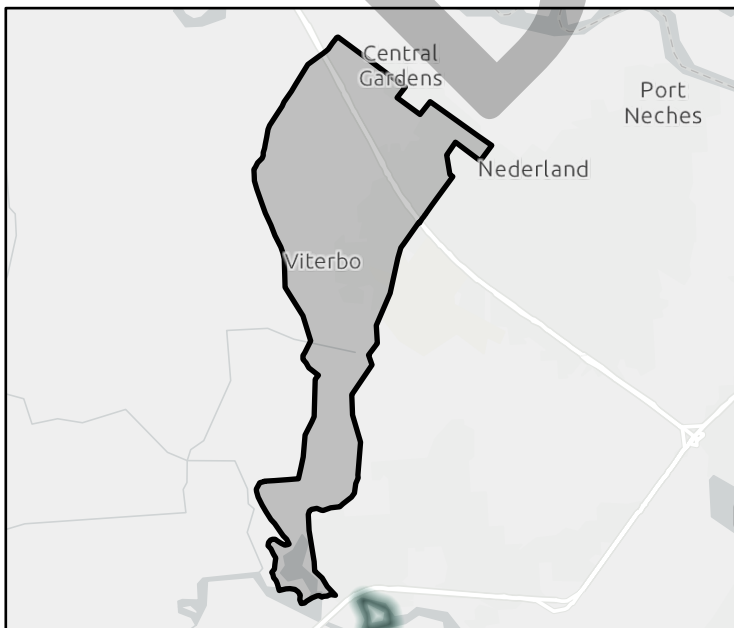
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Farm/Ranch land impacted (ac.) Roadways impacted (miles)

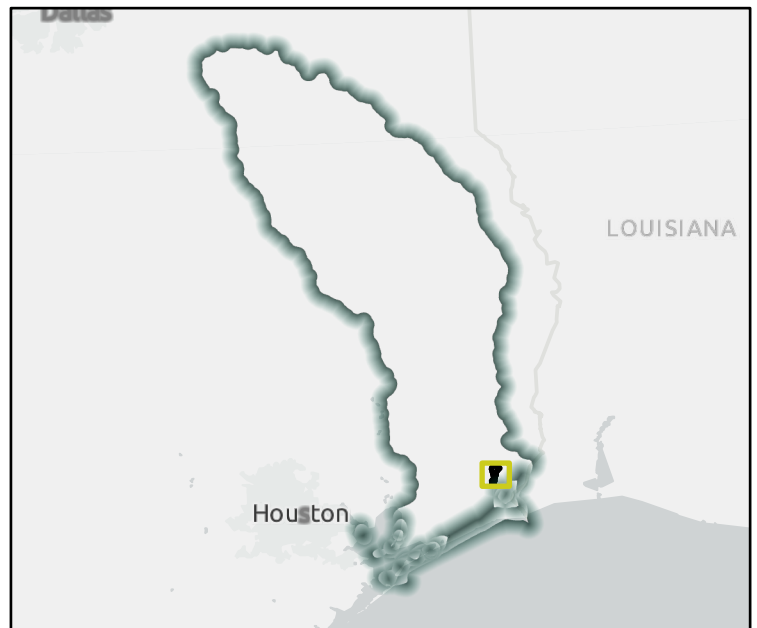
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FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

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100-Year Flood Risk Summary

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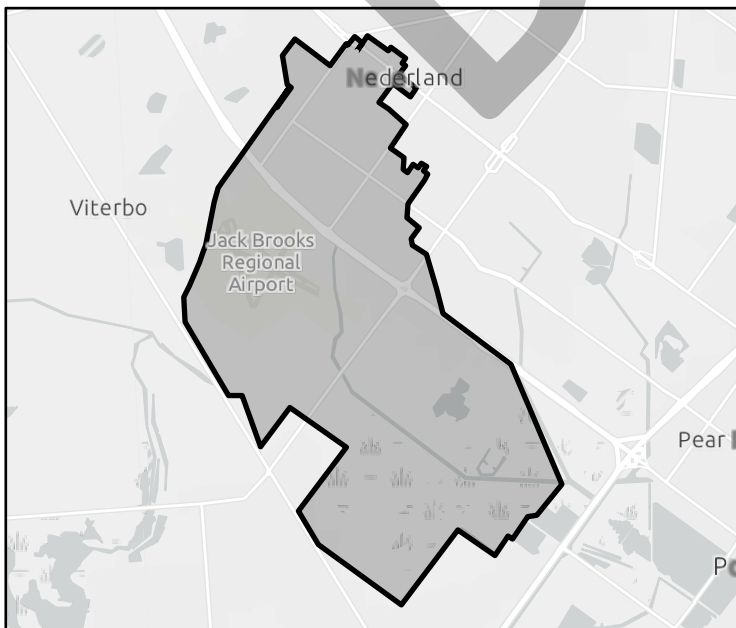
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Farm/Ranch land impacted (ac.) Roadways impacted (miles)

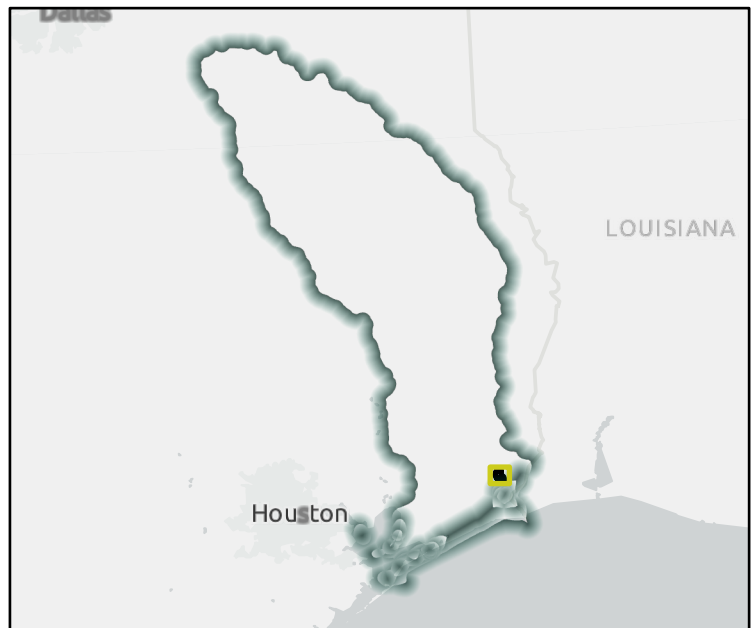
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Total Cost Potential federal funding availability? Yes Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

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Recommended by RFPG? Yes Reason for Recommendation

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100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

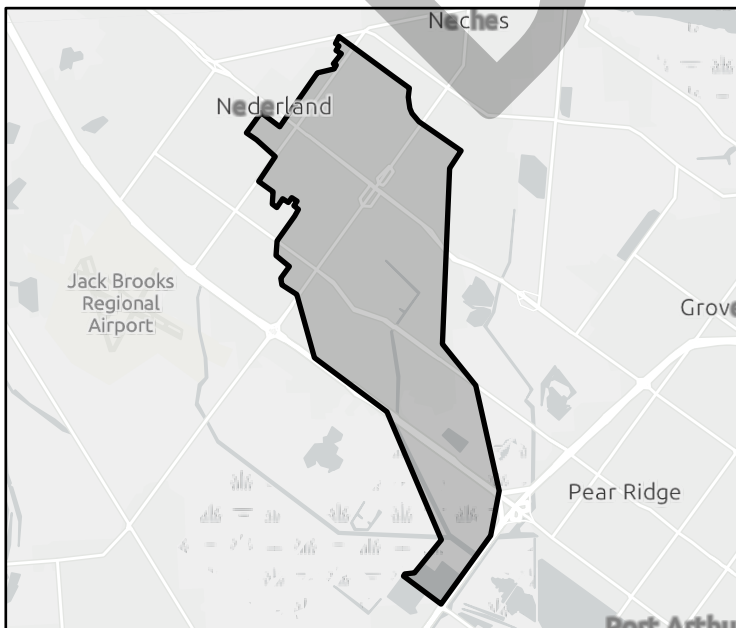
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

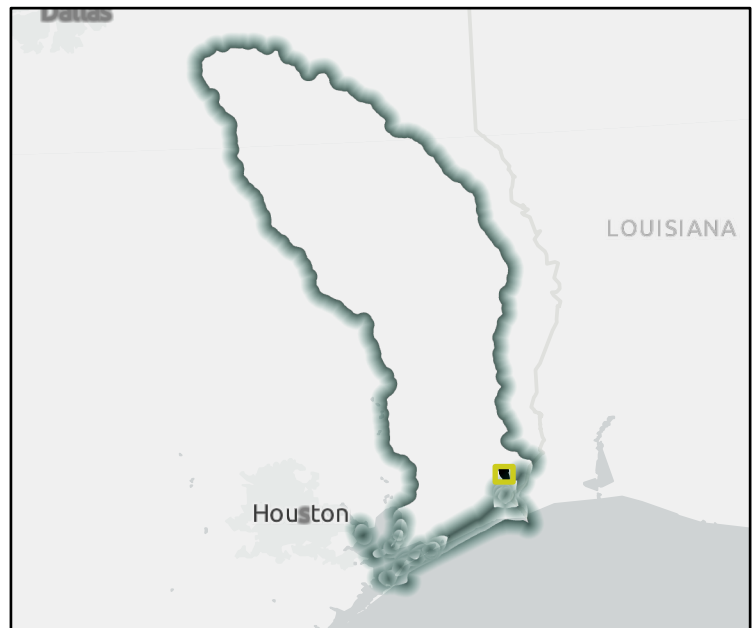
of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Yes Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Yes Reason for Recommendation

Study Details

Study type County

Study description

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.)

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100-Year Flood Risk Summary

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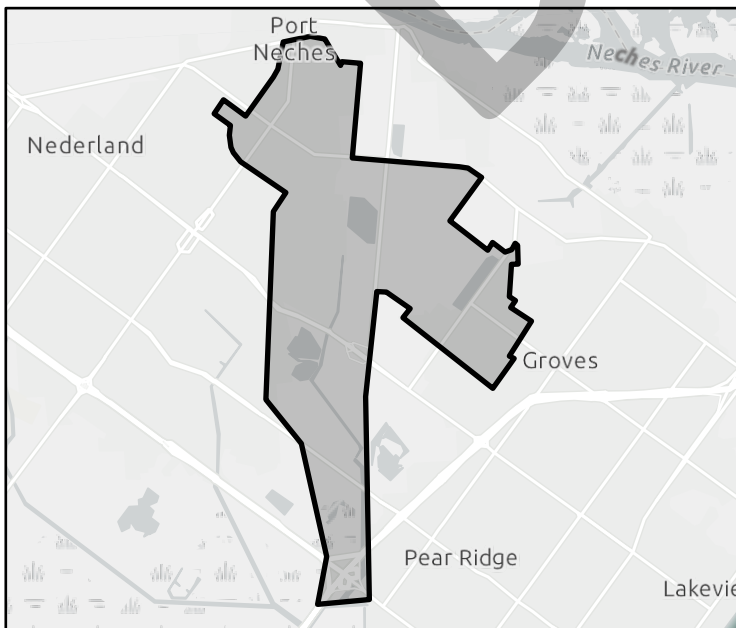
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

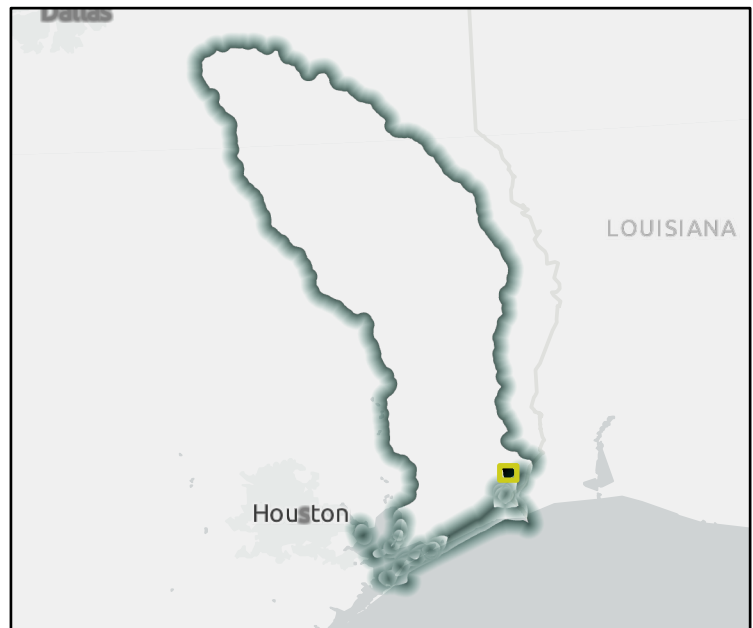
of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Yes Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title **Rodair Lateral 5 Detention Pond Excavation**

ID# **051000119** Sponsor **Jefferson County Drainage District 7**

Recommended by RFPG? **Yes** Reason for Recommendation **Complies with RFPG Goals**

Study Details

Study type **Project Planning** County **Jefferson**

Study description **H&H study to identify additional detention required to expand existing level of service**

FME to create new H&H model? **Yes** Emergency Need? **Yes** Anticipated models in near term? **No** Drainage area (sq. mi., est.) **2**

- Goal(s)
- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
 - Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
 - Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
 - Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
 - Goal 5: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

100-Year Flood Risk Summary

Population at risk **138** # of structures **29** # of critical facilities **0**

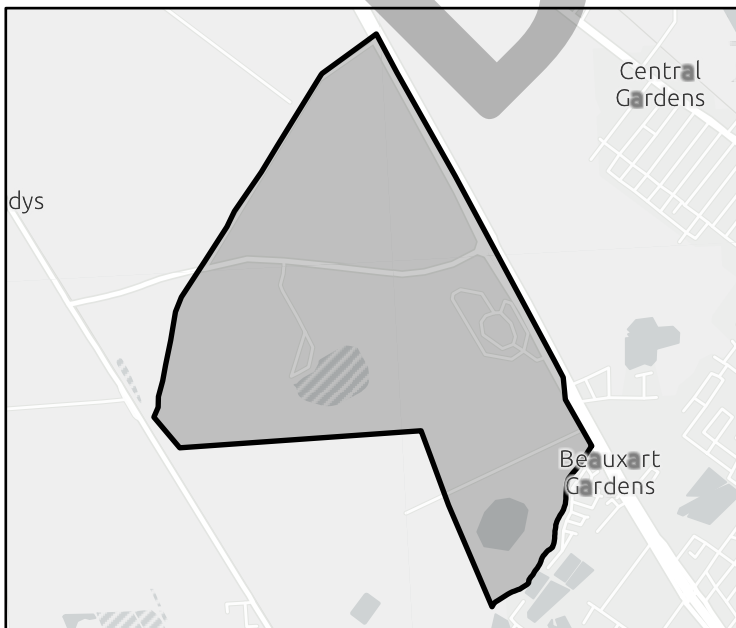
Flood risk type: Riverine? **Yes** Coastal? **No** Local Flooding? **No** Other? **Yes**

Farm/Ranch land impacted (ac.) **6** Roadways impacted (miles) **1**

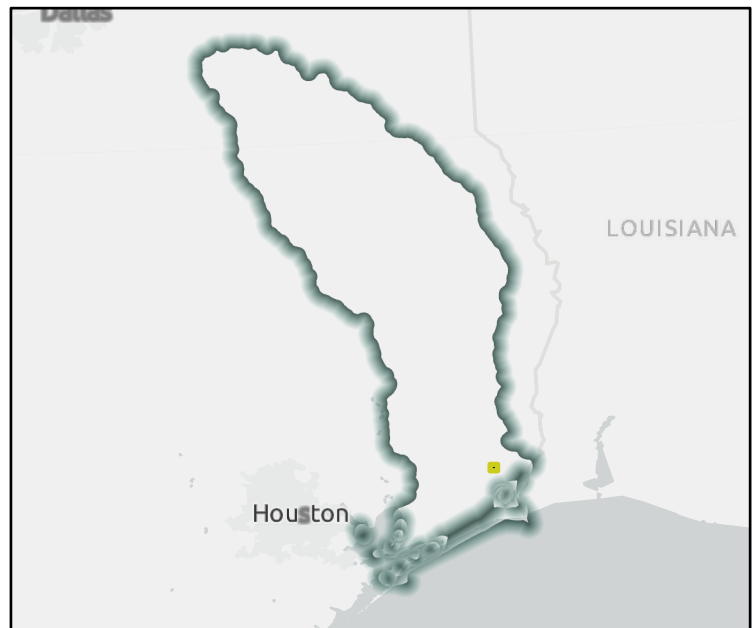
of low water crossings **0** # of historical road closures **0**

Estimated Cost and Funding Availability

Total Cost **\$100,000** Potential federal funding availability? **Yes** Potential Federal Funding Sources **-**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title **Halbouty Detention Pond Excavation**

ID# **051000120** Sponsor **Jefferson County Drainage District 7**

Recommended by RFPG? **Yes** Reason for Recommendation **Complies with RFPG Goals**

Study Details

Study type **Project Planning** County **Jefferson**

Study description **H&H study to identify additional detention required to expand existing level of service**

FME to create new H&H model? **Yes** Emergency Need? **Yes** Anticipated models in near term? **No** Drainage area (sq. mi., est.) **12**

- Goal(s)
- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
 - Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
 - Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
 - Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
 - Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
 - Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk **1,628** # of structures **251** # of critical facilities **33**

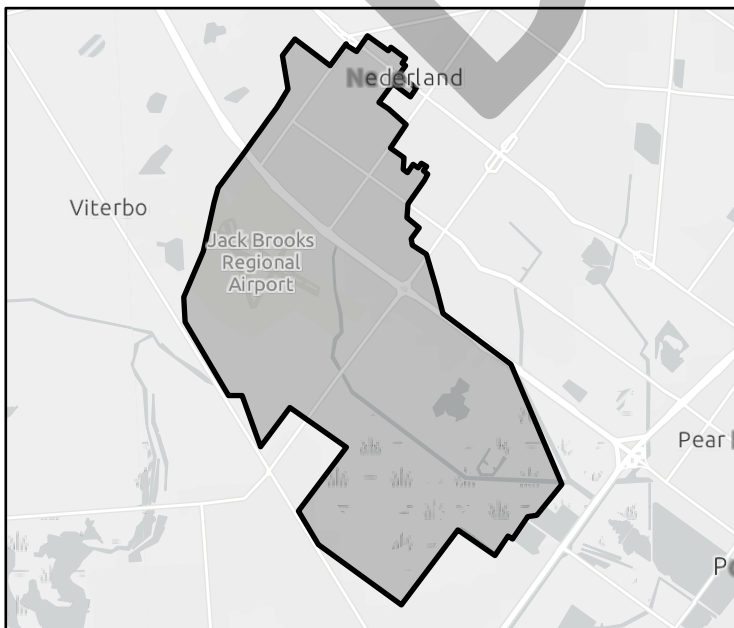
Flood risk type: Riverine? **Yes** Coastal? **No** Local Flooding? **No** Other? **Yes**

Farm/Ranch land impacted (ac.) **164** Roadways impacted (miles) **7**

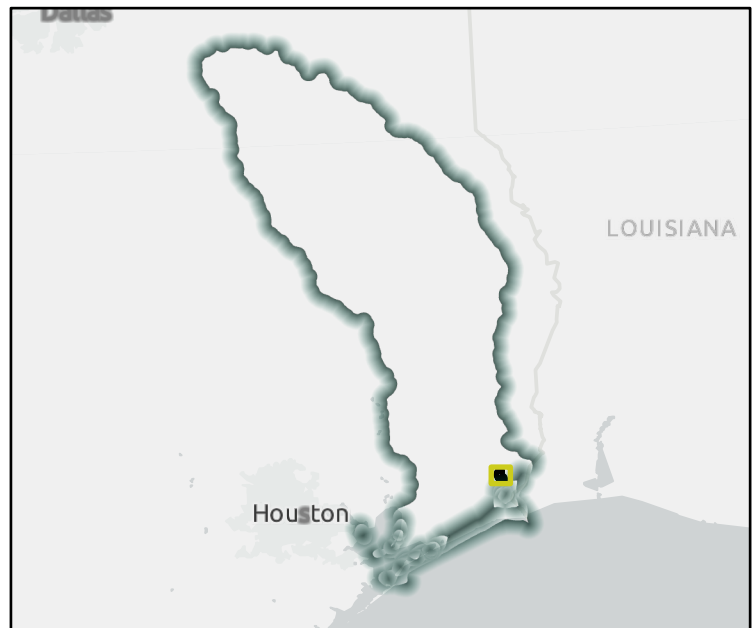
of low water crossings **0** # of historical road closures **0**

Estimated Cost and Funding Availability

Total Cost **\$100,000** Potential federal funding availability? **Yes** Potential Federal Funding Sources **-**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Reason for Recommendation

Study Details

Study type County

Study description

FME to create new H&H model? Emergency Need? Anticipated models in near term? Drainage area (sq. mi., est.)

- Goal(s)
- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
 - Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
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 - Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
 - Goal 5: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

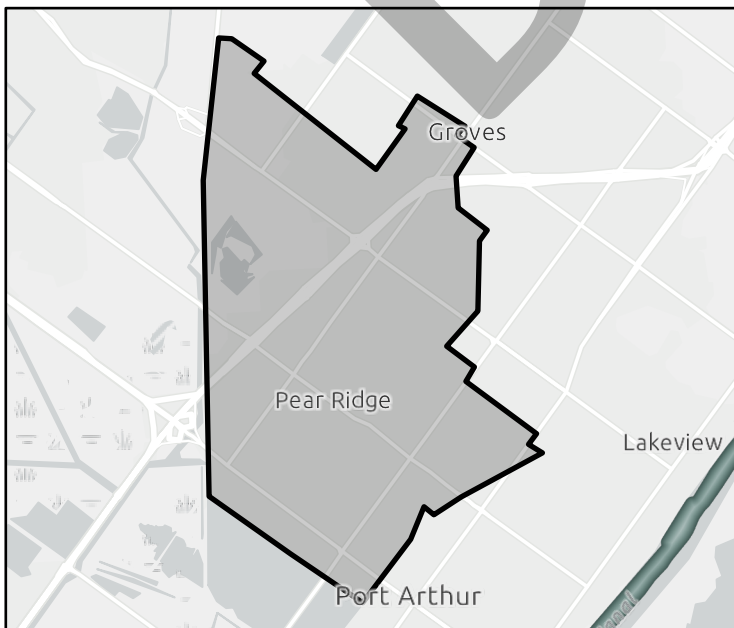
Flood risk type: Riverine? Coastal? Local Flooding? Other?

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

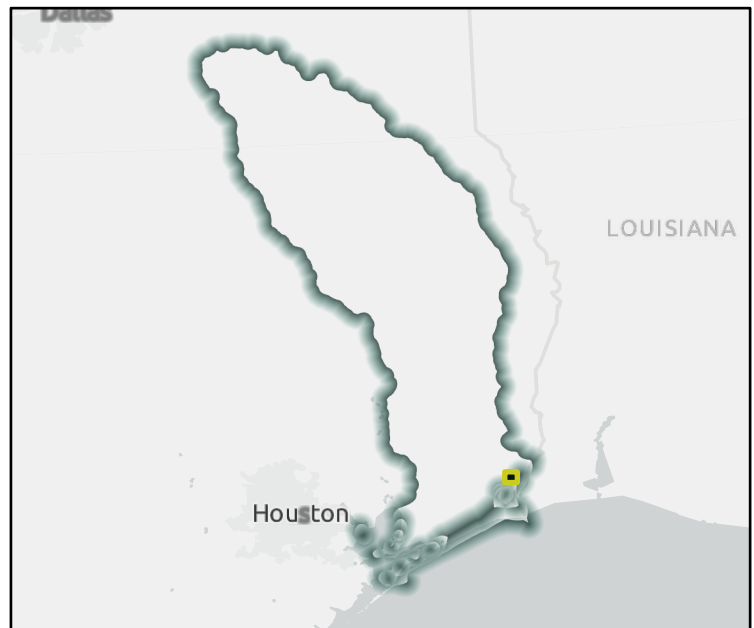
of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Yes Reason for Recommendation

Study Details

Study type County

Study description

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.)

- Goal(s)
- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
 - Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
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 - Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
 - Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

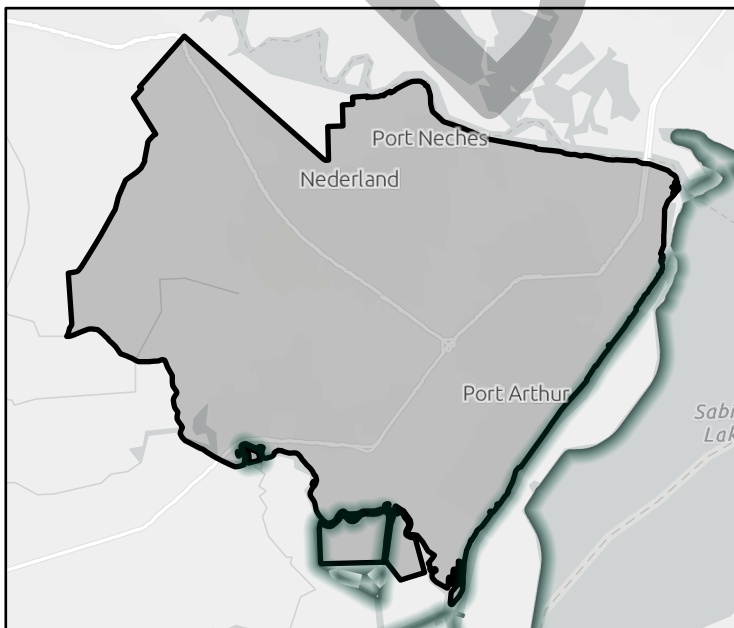
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

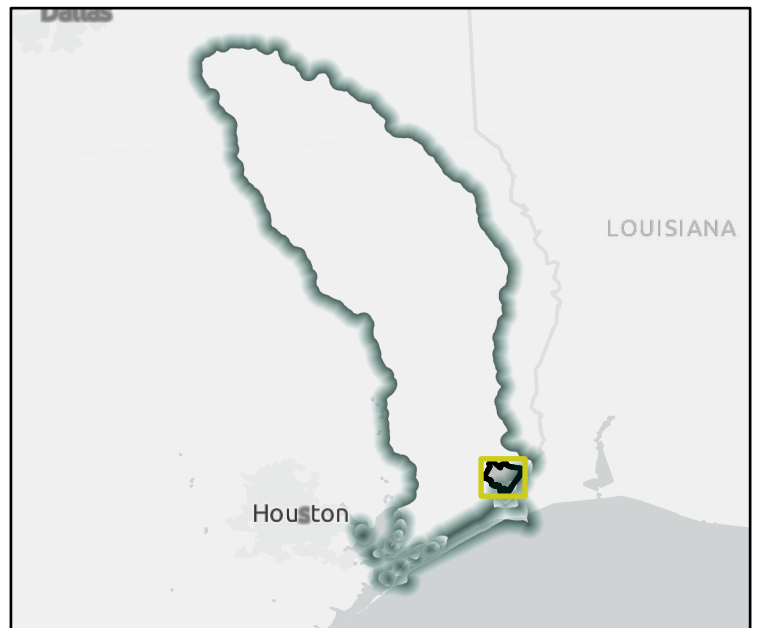
of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Yes Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Reason for Recommendation

Study Details

Study type County

Study description

FME to create new H&H model? Emergency Need? Anticipated models in near term? Drainage area (sq. mi., est.)

- Goal(s)
- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
 - Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
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 - Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
 - Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

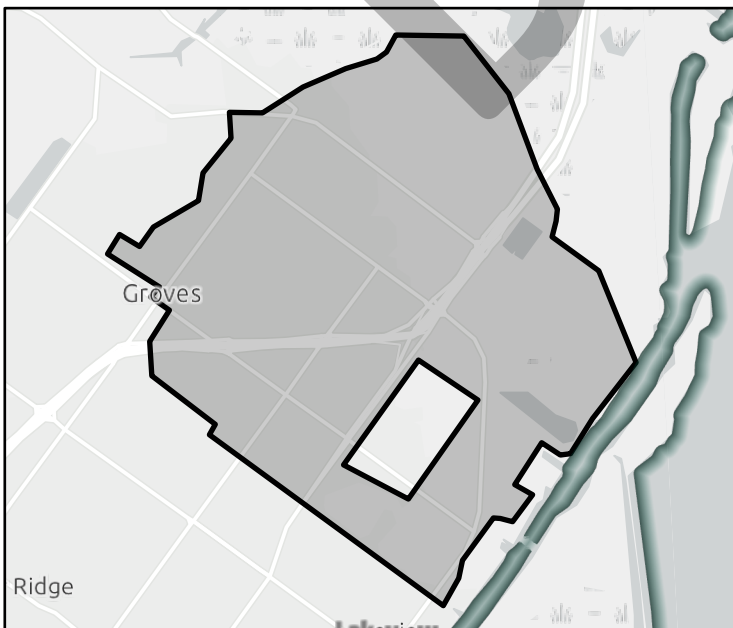
Flood risk type: Riverine? Coastal? Local Flooding? Other?

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

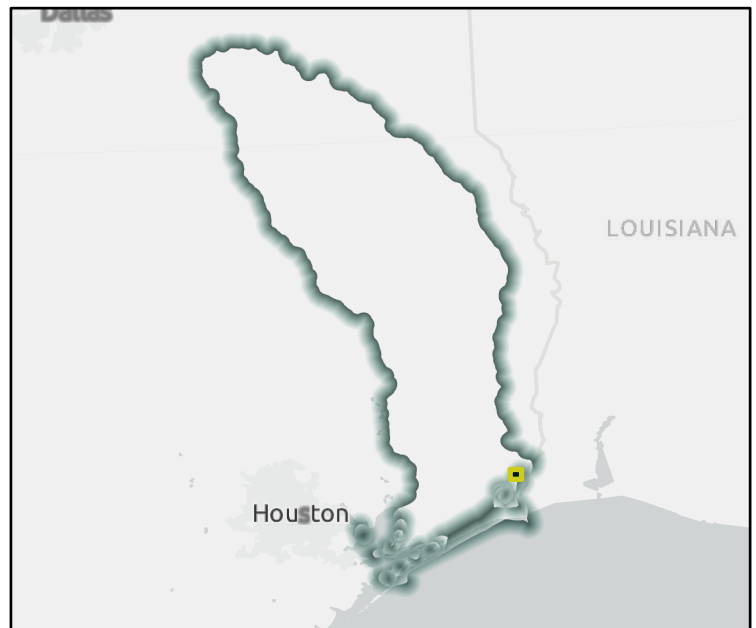
of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Yes Reason for Recommendation

Study Details

Study type County

Study description

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.)

- Goal(s)
- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
 - Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
 - Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
 - Goal 4: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

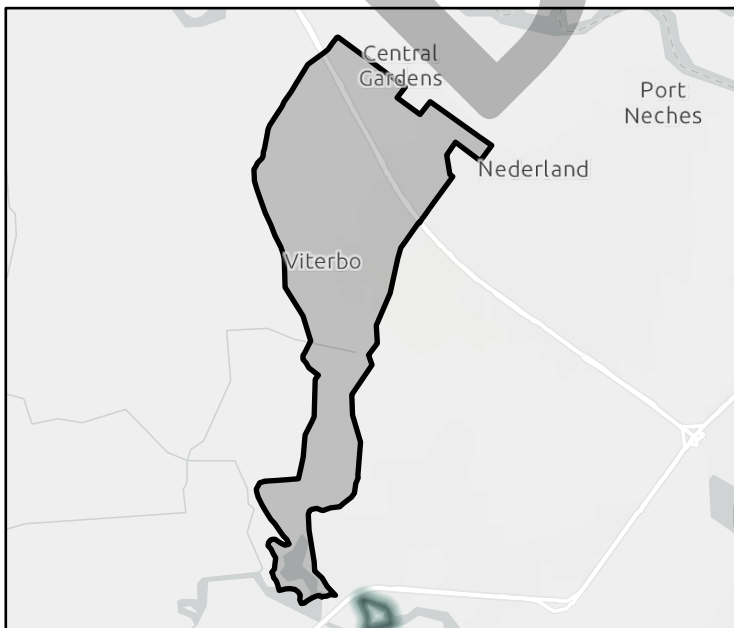
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

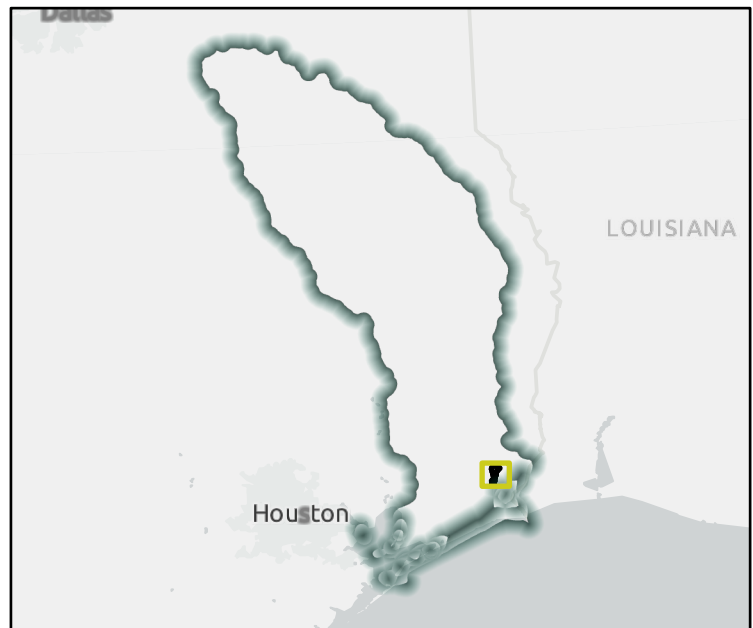
of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Yes Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title **Rodair Gully System Detention**

ID# **051000128** Sponsor **Jefferson County Drainage District 7**

Recommended by RFPG? **Yes** Reason for Recommendation **Complies with RFPG Goals**

Study Details

Study type **Project Planning** County **Jefferson**

Study description **H&H study to identify additional detention required to expand existing level of service**

FME to create new H&H model? **Yes** Emergency Need? **Yes** Anticipated models in near term? **Yes** Drainage area (sq. mi., est.) **12**

- Goal(s)
- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
 - Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
 - Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
 - Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
 - Goal 5: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

100-Year Flood Risk Summary

Population at risk **1,418** # of structures **511** # of critical facilities **0**

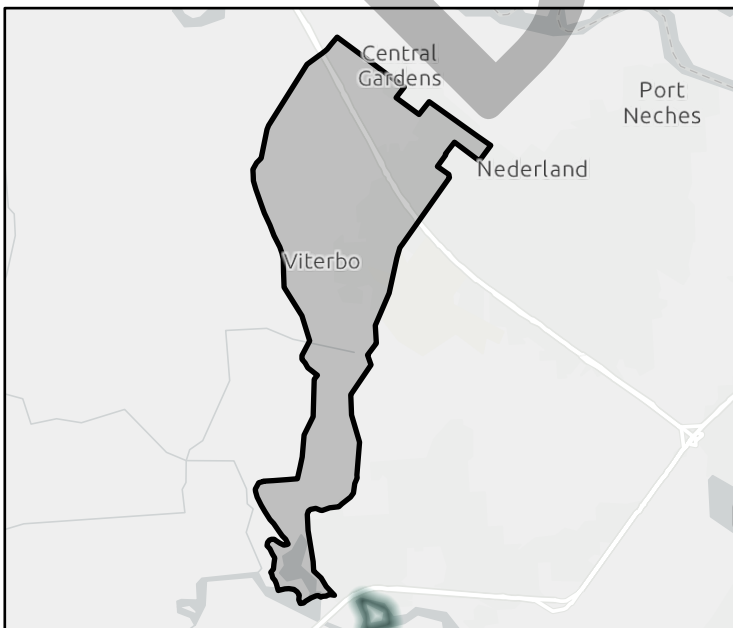
Flood risk type: Riverine? **Yes** Coastal? **Yes** Local Flooding? **No** Other? **Yes**

Farm/Ranch land impacted (ac.) **64** Roadways impacted (miles) **10**

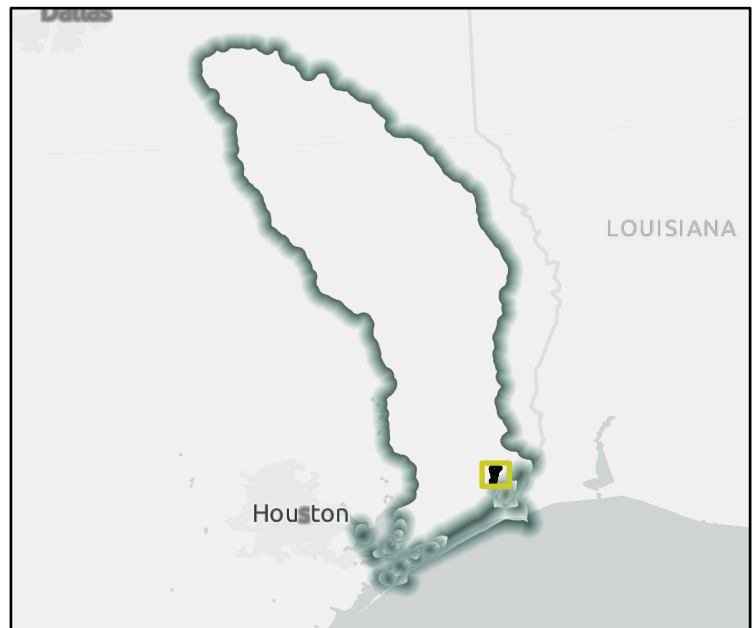
of low water crossings **0** # of historical road closures **0**

Estimated Cost and Funding Availability

Total Cost **\$100,000** Potential federal funding availability? **Yes** Potential Federal Funding Sources **-**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Reason for Recommendation

Study Details

Study type County

Study description

FME to create new H&H model? Emergency Need? Anticipated models in near term? Drainage area (sq. mi., est.)

Goal(s)

100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

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

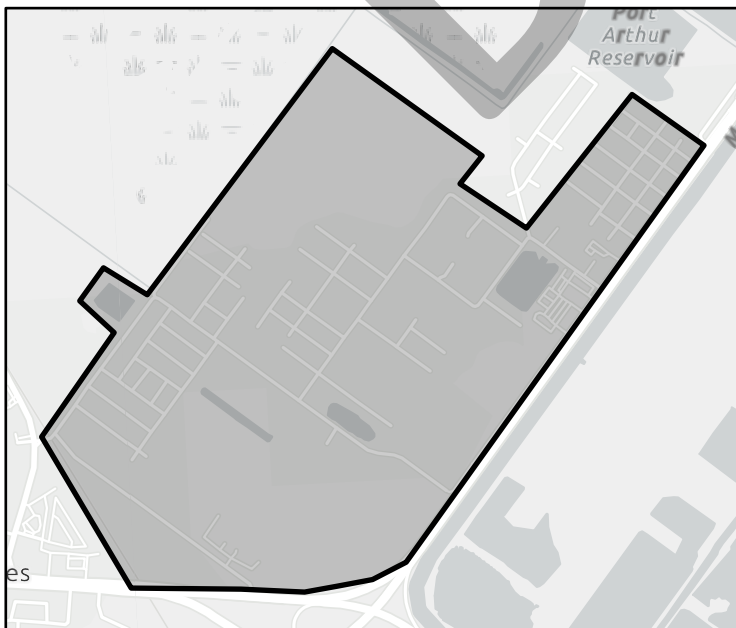
Farm/Ranch land impacted (ac.) Roadways impacted (miles)

of low water crossings # of historical road closures

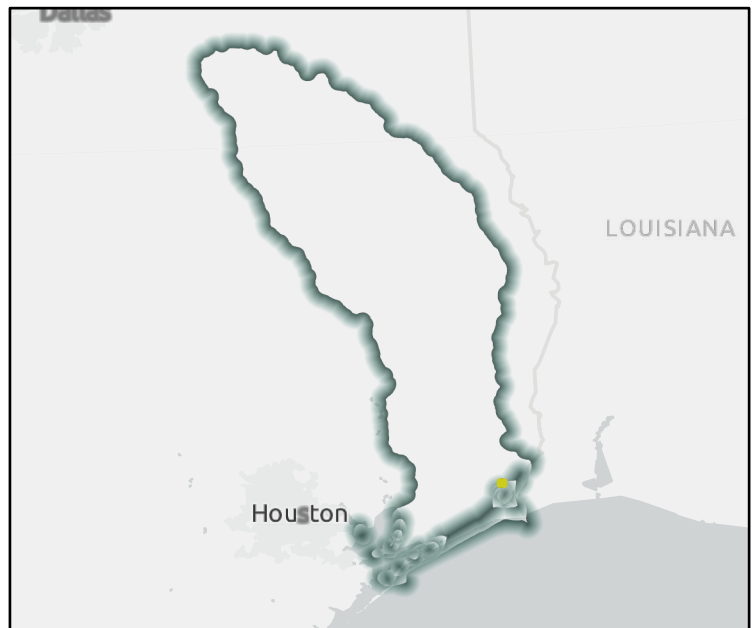
Estimated Cost and Funding Availability

Total Cost Potential federal funding availability?

Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title **W. Port Arthur Road Upgrade Pumping Equipment**

ID# **051000130** Sponsor **Jefferson County Drainage District 7**

Recommended by RFPG? **Yes** Reason for Recommendation **Complies with RFPG Goals**

Study Details

Study type **Project Planning** County **Jefferson**

Study description **H&H study to size pump upgrades and improve existing level of service.**

FME to create new H&H model? **Yes** Emergency Need? **Yes** Anticipated models in near term? **No** Drainage area (sq. mi., est.) **1**

- Goal(s)
- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
 - Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
 - Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
 - Goal 4: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

100-Year Flood Risk Summary

Population at risk **4** # of structures **3** # of critical facilities **0**

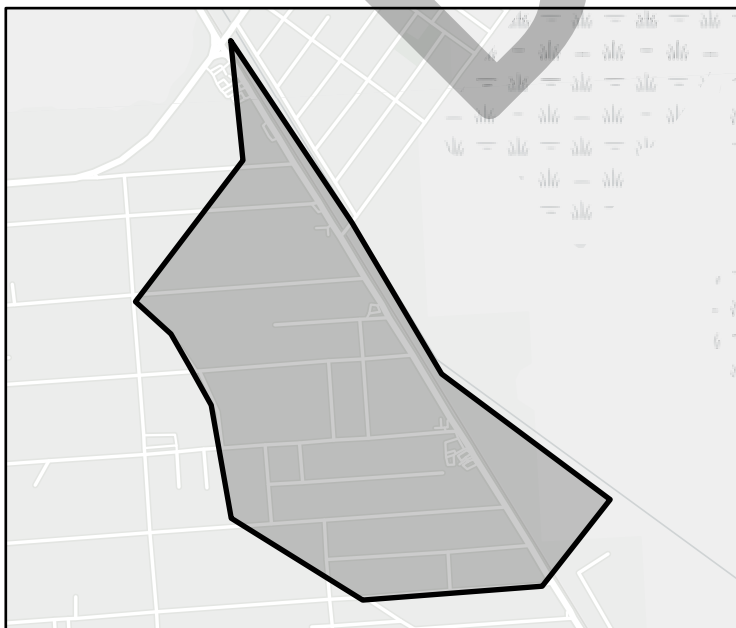
Flood risk type: Riverine? **Yes** Coastal? **No** Local Flooding? **No** Other? **No**

Farm/Ranch land impacted (ac.) **0** Roadways impacted (miles) **0**

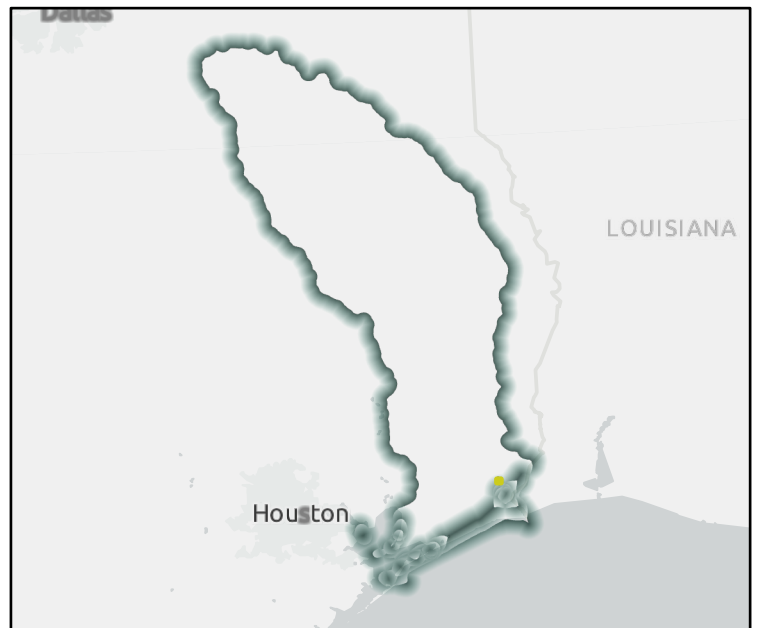
of low water crossings **0** # of historical road closures **0**

Estimated Cost and Funding Availability

Total Cost **\$100,000** Potential federal funding availability? **Yes** Potential Federal Funding Sources **-**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Reason for Recommendation

Study Details

Study type County

Study description

FME to create new H&H model? Emergency Need? Anticipated models in near term? Drainage area (sq. mi., est.)

- Goal(s)
- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
 - Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
 - Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
 - Goal 4: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

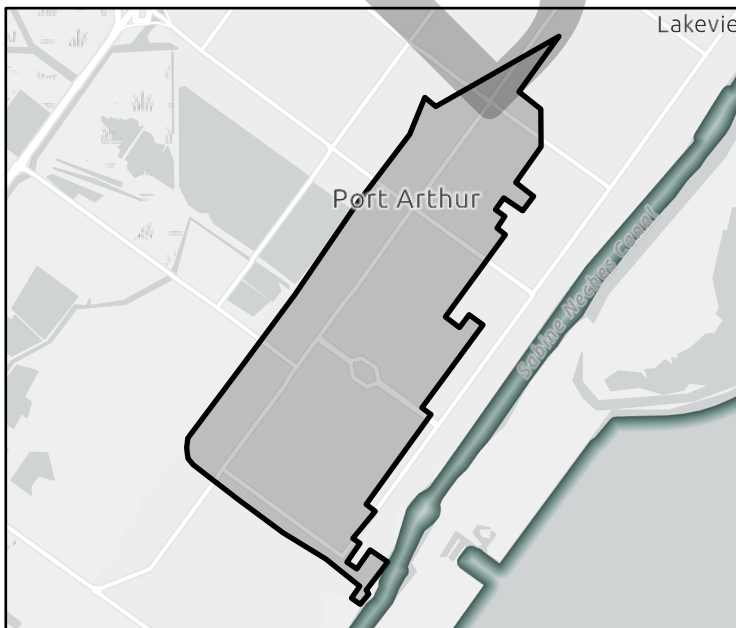
Flood risk type: Riverine? Coastal? Local Flooding? Other?

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

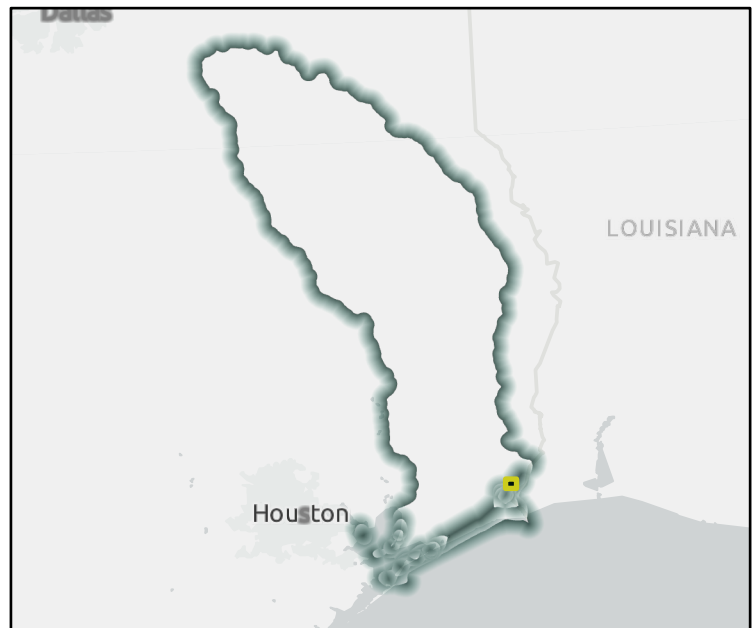
of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5



REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Reason for Recommendation

Study Details

Study type County

Study description

FME to create new H&H model? Emergency Need? Anticipated models in near term? Drainage area (sq. mi., est.)

Goal(s)

100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

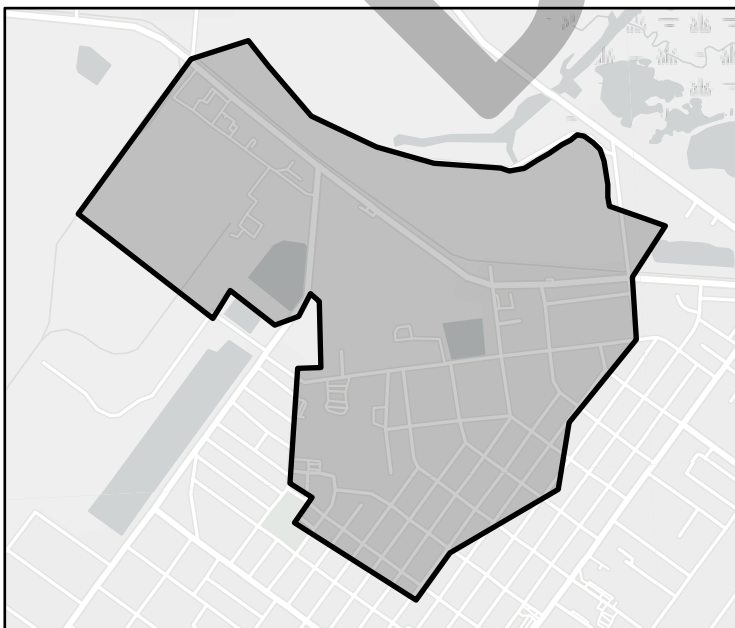
Flood risk type: Riverine? Coastal? Local Flooding? Other?

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID# Sponsor

Recommended by RFPG? Yes Reason for Recommendation

Study Details

Study type County

Study description

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.)

- Goal(s)
- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
 - Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
 - Goal 3: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
 - Goal 4: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.
 - Goal 5: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
 - Goal 6: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

100-Year Flood Risk Summary

Population at risk # of structures # of critical facilities

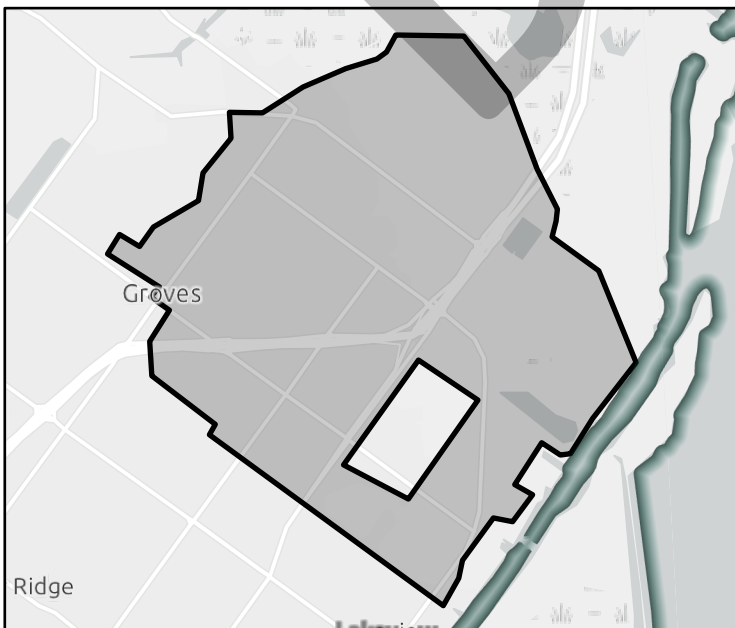
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.) Roadways impacted (miles)

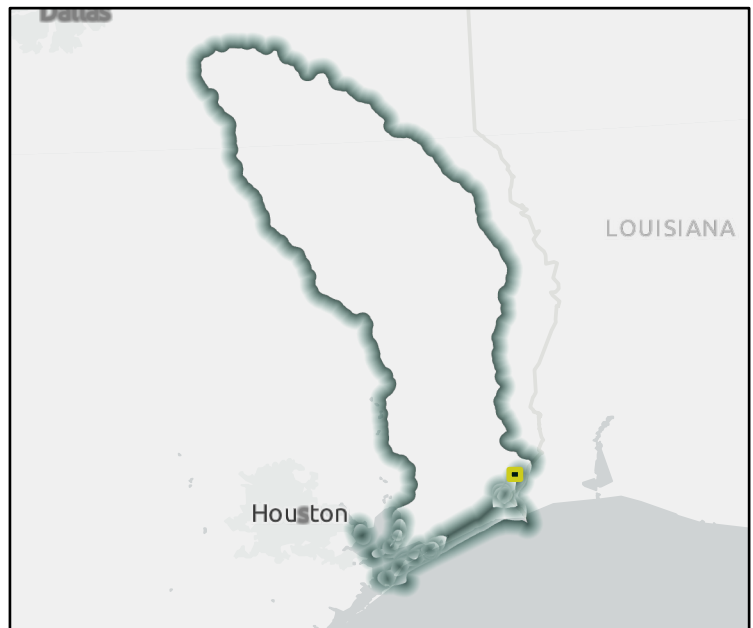
of low water crossings # of historical road closures

Estimated Cost and Funding Availability

Total Cost Potential federal funding availability? Yes Potential Federal Funding Sources



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title **Lakeview Additional Pumping**

ID# **051000134** Sponsor **Jefferson County Drainage District 7**

Recommended by RFPG? **Yes** Reason for Recommendation **Complies with RFPG Goals**

Study Details

Study type **Project Planning** County **Jefferson**

Study description **H&H study to size pump upgrades and improve existing level of service.**

FME to create new H&H model? **Yes** Emergency Need? **Yes** Anticipated models in near term? **No** Drainage area (sq. mi., est.) **2**

- Goal(s)
- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
 - Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
 - Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
 - Goal 4: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

100-Year Flood Risk Summary

Population at risk **479** # of structures **216** # of critical facilities **0**

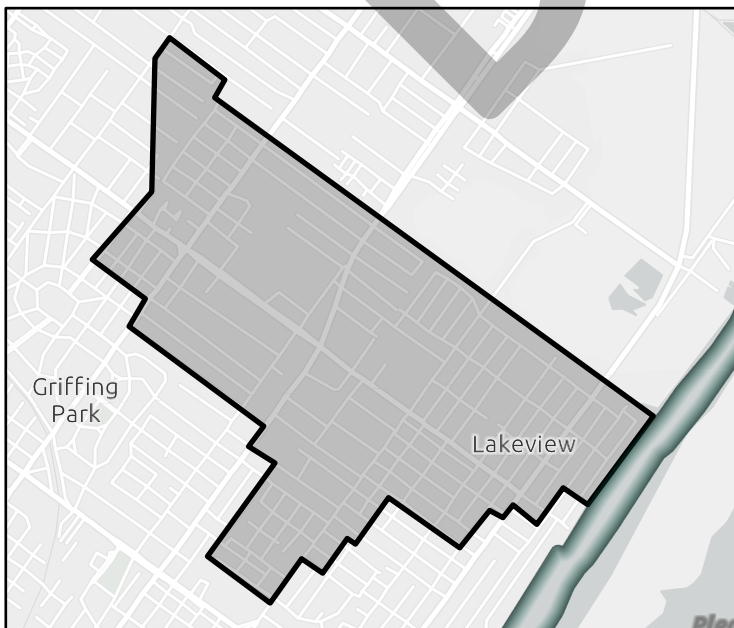
Flood risk type: Riverine? **Yes** Coastal? **Yes** Local Flooding? **No** Other? **Yes**

Farm/Ranch land impacted (ac.) **0** Roadways impacted (miles) **2**

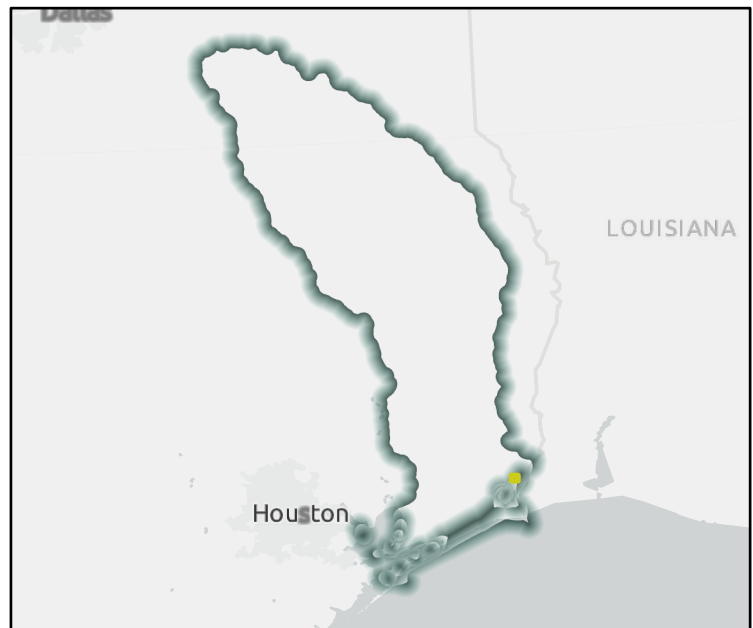
of low water crossings **0** # of historical road closures **0**

Estimated Cost and Funding Availability

Total Cost **\$100,000** Potential federal funding availability? **Yes** Potential Federal Funding Sources **-**



FME Area



Regional view of FME area