

Update from **Consultant Team**

Neches Regional Flood Planning Group

April 25, 2023

Agenda

- Task 12 Update
 - City of Tyler Master Drainage Plan
 - City of Jasper Master Drainage Plan
- Task 13 Update
 - Additional FMXs
 - Preliminary Discussion of FMXs to be included in • the Amended Regional Flood Plan



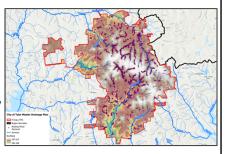
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Task 12 Update

City of Tyler Master Drainage Plan

- FME ID: 051000058
- · Sponsor: City of Tyler
- Perform H&H modeling to identify and define flood risk, develop conceptual alternatives to reduce flood risk, develop OPCC for conceptual alternatives, and rank projects.



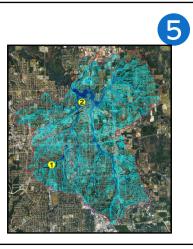
City of Tyler FME Update

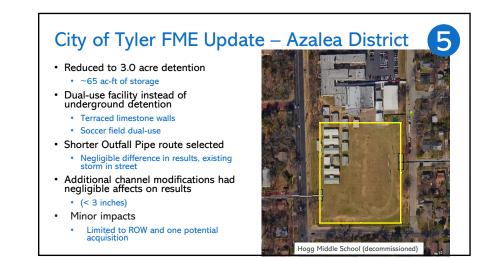
Study Area: Upper Black Fork Creek Watershed

Preliminary Modeling Results:

- Azalea District
 55 Residential Structures improved
- 24 Commercial Structures improved
 2 Gentry Regional Detention
- Gentry Regional Detention
 40 Residential Structures improved
- 16 Commercial Structures improved

(all results provided are the 100-year event)





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City of Tyler FME Update – Azalea District

- 65 ac-ft detention basin
- 8'x6' RCB diversion
- 24" RCP diversion outfall
- 0.25' 1.3' of WSEL reduction



City of Tyler FME Update - Gentry Regional Detention

- Approximately 28-Acre Detention
 Pond
 - 160 ac-ft of storage
 - Detention pond amenity with potential for recreation, trail systems, and park space



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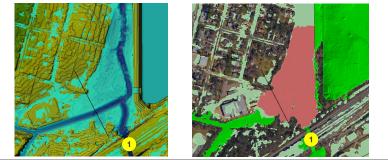
City of Tyler FME Update - Gentry Regional Detention

- Detention, roadway crossing, and channel improvements
- Three roadway crossing improvements chosen
 - Proposed culvert data provided by City of Tyler
- Channel improvements
 - 1: 1200 LF
 - 2: 1600 LF3: 700 LF
- Minor impacts
 - Limited to ROW and drainage easements



City of Tyler FME Update – Gentry Regional Detention

- Crossing #1
 - Existing 11'x6' RCB \rightarrow Proposed 2-12'x12' RCBs

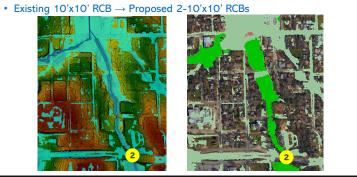


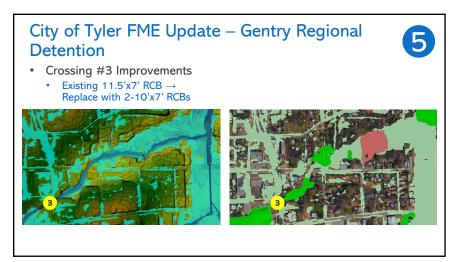
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City of Tyler FME Update – Gentry Regional Detention Crossing #2

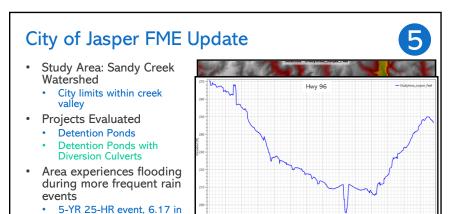




City of Jasper FME Update

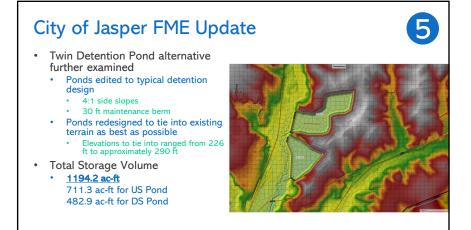
- FME ID: 051000052
- Sponsor: City of Jasper
- Perform H&H modeling to identify and define flood risk, develop conceptual alternatives to reduce flood risk, develop OPCC for conceptual alternatives, and rank projects.





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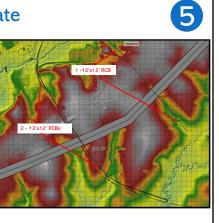
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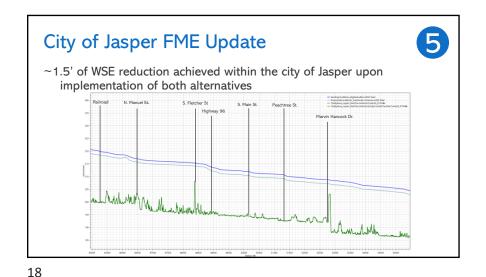


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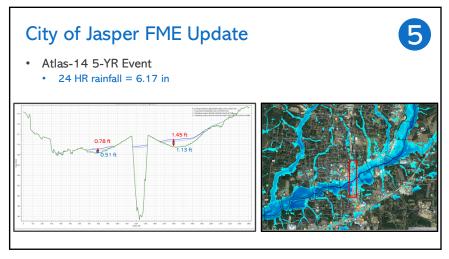
City of Jasper FME Update

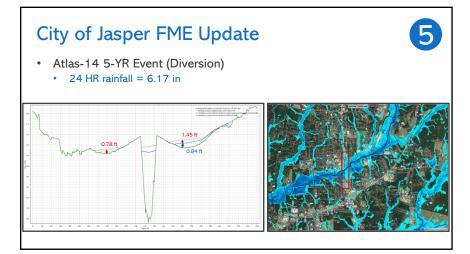
- Diversion from Sandy Creek to Big Walnut Run
 - 3 12'x12' RCB
- Diversion intended to be implemented in conjunction with dual detention pond layout



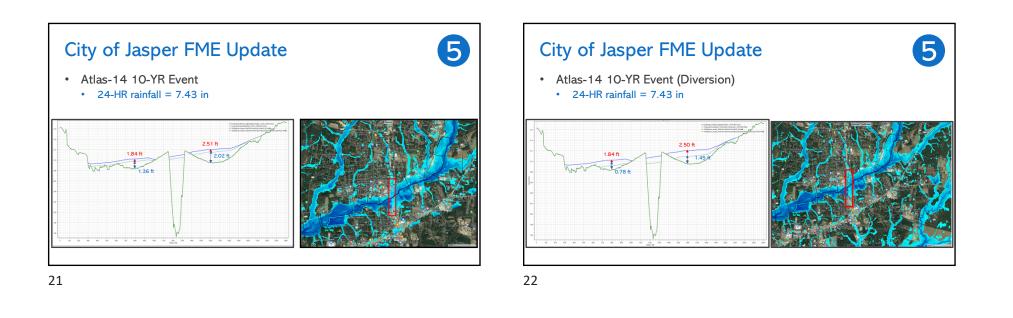


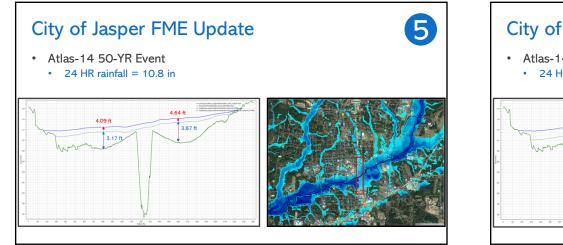
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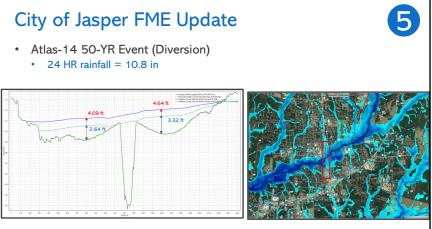


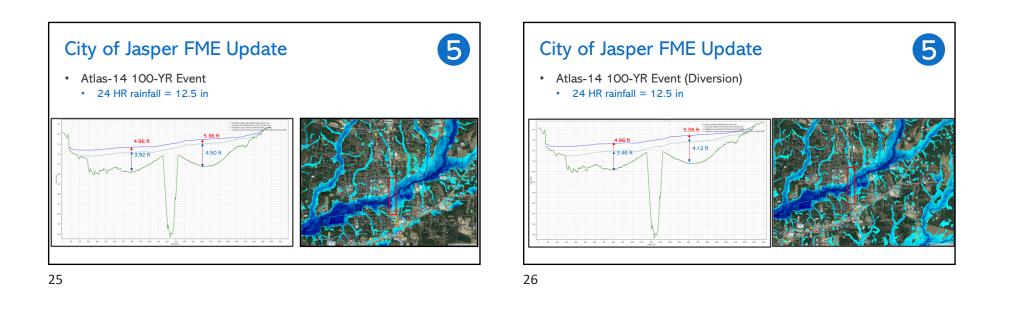


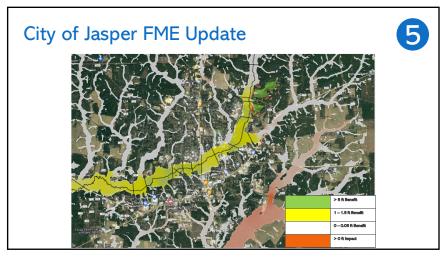
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5 Task 12 - FMX Updates • Continued coordination with stakeholders in the region to obtain necessary information • For all Flood Mitigation Actions (FMEs and FMPs): Compile Project Information including Flood Exposure Data Develop planning-level Cost Estimates Flood Exposure Data · Identify a willing Project Sponsor (100-yr Flood) Structures Identify Funding Sources Population • For FMPs (and some FMSs): Critical Facilities Perform Benefit-Cost Analysis Low Water Crossings Provide No Negative Impact Certification Agricultural Areas Roads

Task 12 – FMX Updates

FMEs to be removed after stakeholder feedback:

Ditch 100A (East Caldwood) Improvements (FME ID 051000097)

Shreveport Additional Pumping Equipment (FME ID 051000141)

Improvements (FME ID 051000118) to remain FMEs

Upper Johns Gulley Upgrade Drainage Channel (FME ID 051000112)

· Further detailed analysis necessary to accurately measure project benefit

Channel 100-A Concrete Repair (FMP ID 053000003) to be re-classified as an FME

Crane Bayou Channel Improvements (FME ID 051000124) and Main A Channel

• Funding will not be acquired in time for actions to be included in the Amended Flood Plan

Existing FMP/FME Update

Additional FMP/FME Update
 Two new FMEs identified

Delaware Detention

Calder Diversions Connections



Task 12 – Recommendation of FMXs

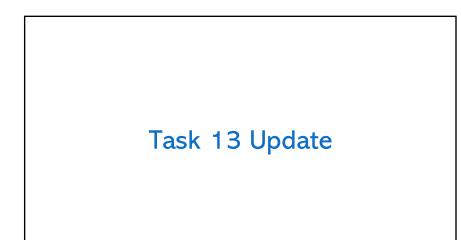


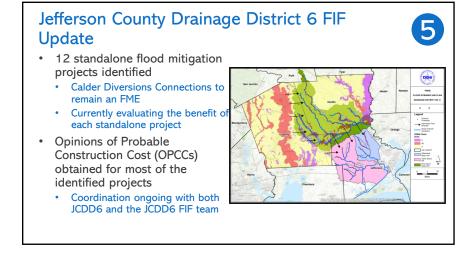
- Determine if there are any actions on the list of identified FMEs and FMPs that the RFPG should not support
- Encourage the RFPG to favor inclusion of FMXs while understanding that there is no obligation to take action and no financial commitment associated with FMX sponsorship

Final Recommendations Will:

- Align with TWDB requirements and regional goals
- Address areas of greatest need (risk and/or knowledge gaps)
- Demonstrate potential for benefit
- Have sponsor support

30





			lPs	
	FMP Name	Project Type	Sponsor(s)	Cost
1	City of Tyler Improvements*	Comprehensive	City of Tyler	TBD
2	City of Jasper Improvements*	Comprehensive	City of Jasper	TBD
з	Hardin County SE Area Drainage System*	Comprehensive	Hardin County	TBD
4	Bridge City Drainage Outfall Improvement Project*	Channel	Orange County Drainage District	TBD
5	Pevitot Gully Improvement System	Comprehensive	Jefferson County Drainage District 6	\$333,636,509
6	Willow Marsh Bayou Phenlan Blvd Detention	Comprehensive	Jefferson County Drainage District 6	\$210,664,840
7	Willow Marsh Main Improvement System	Comprehensive	Jefferson County Drainage District 6	\$1,174,212,087
8	Willow Marsh Downstream Improvement System	Comprehensive	Jefferson County Drainage District 6	\$122,080,814
9	Tyrell Park Improvements	Channel	Jefferson County Drainage District 6	\$25,095,036
10	Rosedale Improvement System	Comprehensive	Jefferson County Drainage District 6	\$333,908,394
11	Nome Conveyance Improvements	Comprehensive	Jefferson County Drainage District 6	\$163,293,623
12	Sour Lake Channel Improvements	Channel	Jefferson County Drainage District 6	\$962,391
13	Green Pond Flow Diversion	Comprehensive	Jefferson County Drainage District 6	\$7,779,028

as	ask 13 Update – New FMPs				
No.	FMP Name	Project Type	Sponsor(s)	Cost	
15	North Taylors Regional Detention Facility	Detention	Jefferson County Drainage District 6	\$35,782,849	
16	South Taylors Bayou Regional Detention	Detention	Jefferson County Drainage District 6	TBD	
17	Tevis Diversion	Channel	Jefferson County Drainage District 6	\$97,327,200	
18	South Park Diversion*	Channel	Jefferson County Drainage District 6	\$99,908,750	
19	Blanchette Diversion*	Channel	Jefferson County Drainage District 6	\$99,173,000	
20	Tyrell Park Detention	Detention	Jefferson County Drainage District 6	TBD	
21	East China Relief	Comprehensive	Jefferson County Drainage District 6	TBD	
22	South Nome Relief	Comprehensive	Jefferson County Drainage District 6	TBD	
23	Ditch 505 Detention	Detention	Jefferson County Drainage District 6	TBD	
24	Virginia Street Detention	Detention	Jefferson County Drainage District 6	\$9,751,456	
25	Delaware Diversion (II)*	Channel	Jefferson County Drainage District 6	TBD	
26	Borley Heights Relief	Comprehensive	Jefferson County Drainage District 6	TBD	

