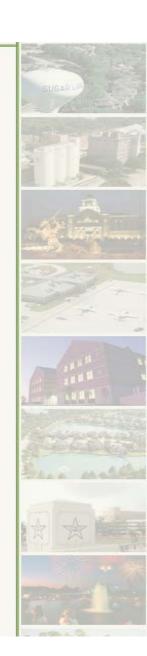
Agenda

- Background
- Implementation
- Funding & Reimbursement
- Recommendation
- Questions



Background – What is a Tiger Dam

- Water Filled Bladder
- Multiple Brands Tiger Dam, Aqua Dam, Portadam, etc
- Utilized to divert or contain floodwaters

The "Sandbag Replacement Option"







Background – What is a Tiger Dam

- 1 Tiger Dam replaces 500 sandbags
- 19" Tall, 50' long
- Life span of 17-20 years vs 8-12 months for sandbags
- Takes 4-6 minutes to fill
- Can be deployed as single dam or stacked to produce increased height

Single Tiger Dam	Height	1' 6.5" (18.5")	
	Base Width	1' 9" (21")	
2-1 Configuration	Height	2' 10" (34")	&
	Base Width	3' 7" (43")	8

3-2-1 Configuration	Height	4'1 " (49")	
	Base Width	5' 9" (69")	
4-3-2-1 Configuration	Height	5' 4" (64")	
	Base Width	7' 11" (95")	



Background – Benefits

- Reduces time to deploy
- Reduces time to clean-up
- Eliminates waste









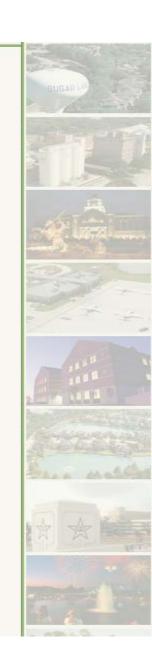
- Areas to Protect based on Engineering Analysis of Brazos River at 59'
 - Ditch "H" Diversion
 - Backwater Effects from Ditch H
 - SH6 North of 90A (Evacuation Route)
 - Backwater Effects from Ditch H & Oyster Creek
 - SH6 & University Intersection
 - Backwater Effects from Ditch H



- Areas to Protect based on Engineering Analysis of Brazos River at 59'
 - Protection would require the need of 100 Tiger Dams/50,000 Sandbags
 - Staff requested assistance from Fort Bend County and State
 - County provided 2 Tiger Dams and 500 Sandbags



- Purchasing
 - Staff researched types of Dams available
 - Attempted to contact multiple vendors to locate materials
 - Based on availability, location, and quantity this vendor was selected
 - Staff purchased an initial 50 Tiger Dams and then an additional 50 with associated equipment for \$141,450



- Ditch H Diversion
 - Did not implement based on revised river levels
 - Flows from Oyster Creek still entering Ditch H







- SH6 North of 90A (Evacuation Route)
 - Did not implement dam based on revised river level forecast



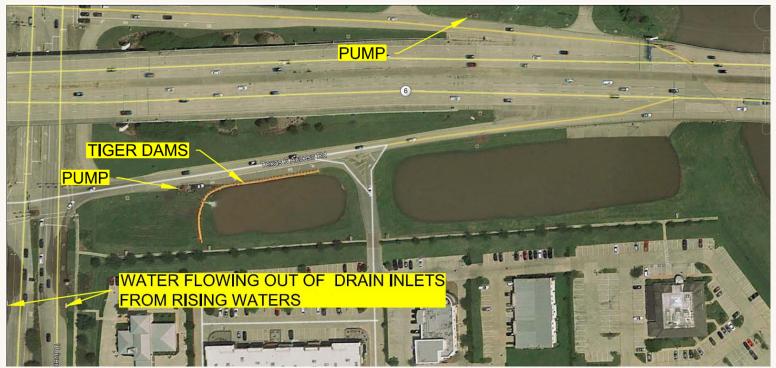


- SH6 & University Intersection
 - Backwater Effects from Ditch H
 - We did implement this mitigation measure
 - Maintained the Intersection to be passable





• SH6 & University Intersection





• SH6 & University Intersection







• SH6 & University Intersection







- SH6 & University Intersection
 - Total of 4 hours from setup to completion
 - 12" and 6" Pump to redirect water
 - 18 Tiger Dams
 - Equivalent of 9000 Sandbags
 - Reduced Lanes on University but intersection was kept open
 - No impact to SH6 Feeder Road



- LID 7 Assistance
 - Purchased by LID 7
 - Delivered Tiger Dams from North Houston
 - Provided a light tower for night work
 - Provided a fire apparatus to help install the dams





Funding & Reimbursement

- Budget Amendment of \$141,450
- Reimbursement from FEMA
 - Emergency Preparedness
 - Typical: 75% reimbursement
 - Harvey: 100% reimbursement
 - Reimbursement Forms have been submitted



Recommendation

 Staff recommends City Council ratify the emergency purchase of Tiger Dams from U.S. Flood Control Corp. in the amount of \$141,450.00 and approval of a budget amendment in the amount of \$141,450.00 in revenue and expenses.



Questions/Comments









