



FY22 Kickoff Meeting

Caney, KS

Flood Hazard
Mapping Project

May 22, 2023



Introductions

- Kansas Department of Agriculture
- FEMA
- Stantec
- Montgomery County
- City of Caney



Agenda

- 1. Background
- 2. Project Scope
- 3. Path Forward

Background

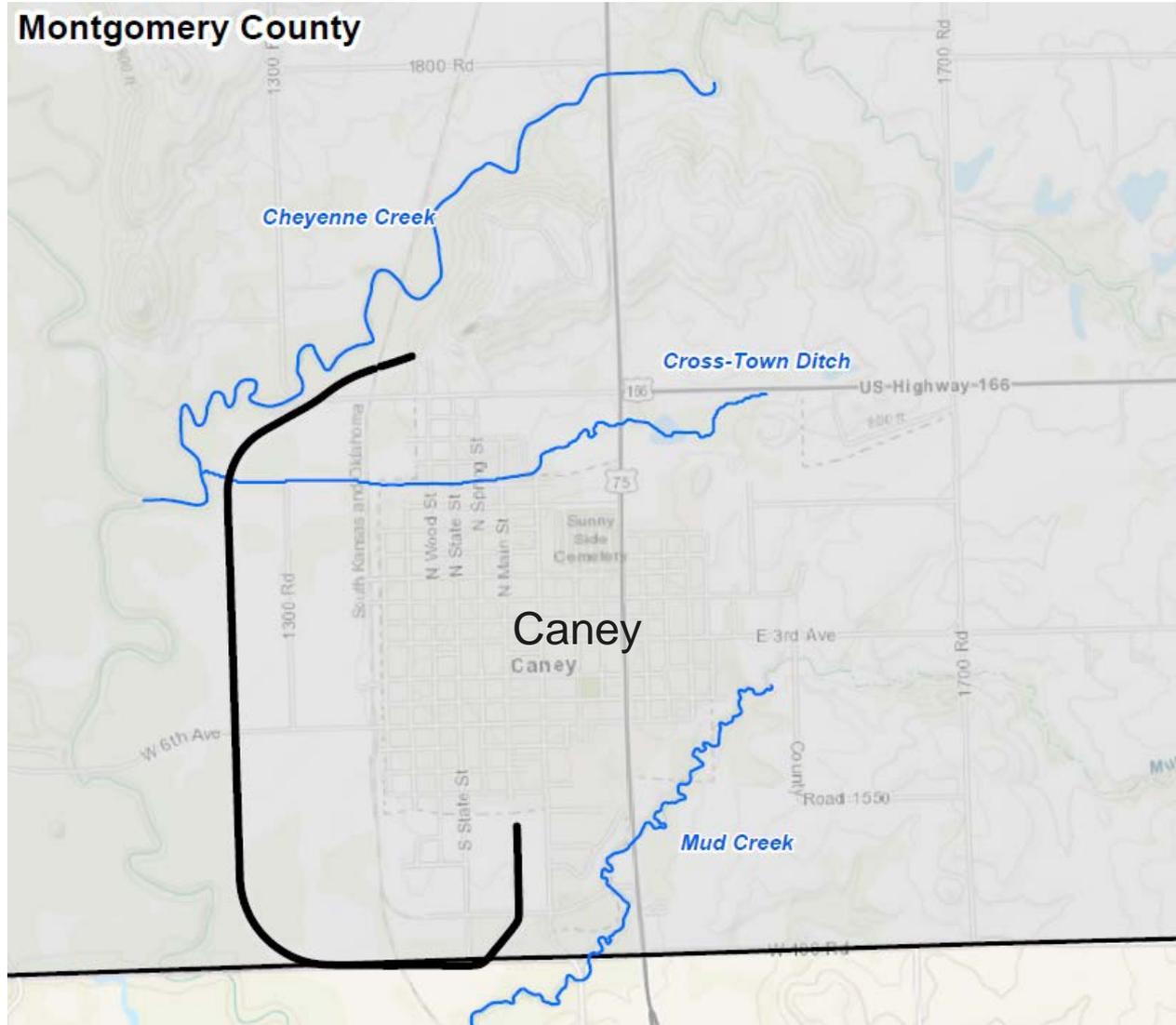
Timeline

- October 1977: Effective FIRM for Montgomery County, KS
- May 1980: Construction of Caney Levee
- September 2009: Montgomery County DFIRM initiated
- March 2010: Montgomery County Preliminary DFIRM
- July 2013: FEMA introduced Analysis and Mapping Procedures for Non-Accredited Levee Systems (LAMP)
- June 2015: New Hydrologic and Hydraulic analysis of the Little Caney River
- January 2017: Revised Preliminary DFIRM showing Seclusion
- August 2018: Local Levee Partnership Team (LLPT) meeting

Background (cont.)

- September 2018: LAMP Plan completed = USACE to pursue NFIP Levee System Evaluation
- May 2020: FEMA receives USACE Levee System Evaluation Report (LSER) submission for Caney Levee
- July 2020: FEMA requests additional information from USACE regarding the LSER
- October 2020: KDA funds new data development study to incorporate the 2015 hydrologic and hydraulic analysis and implement the LAMP Plan of accreditation
- February 2023: KDA initiates a new data development study, filling gaps identified during the 2020/2021 study
- Today (May 22, 2023): Kickoff of FY23 data development project

Project Scope



Project Scope

- Period of Performance is 2/1/2023 – 4/30/2024
- Survey Data Capture
 - Structures Survey
 - 5 structures along the Cross-Town Ditch
 - Format to meet FEMA's Data Capture Standards (DCS)
- Hydrology Data Capture
 - Develop flows for the 10-, 2-, 4-, 1-, 1plus-, and 0.2-percent annual chance flood events for the Cross-Town Ditch
 - HEC-HMS
 - No new hydrology for Mud Creek or Cheyenne Creek
 - Format to meet FEMA's Data Capture Standards (DCS)

Project Scope

- Hydraulics Data Capture
 - Cross-Town Ditch
 - Develop new 1D, unsteady HEC-RAS model
 - Perform Floodway Analysis
 - Develop flood profiles and floodway data table
 - Cheyenne Creek
 - Leverage hydraulic model developed by USACE as part of the 65.10 data submitted to FEMA
 - Mud Creek
 - Leverage existing hydraulic model
 - Update structure at Highway 75 crossing (KDOT)
- Develop Hydraulic DCS Deliverable and submit to MIP

Project Scope

- Draft DFIRM Database
 - 1% and 0.2% flood boundary delineations
 - Floodway delineation
 - BFEs and cross-sections mapped
 - Flood Risk Review (FRR) meeting with community showing mapping results for community review
- Flood Risk Products
 - Develop Flood Risk Products for new studies
 - Water Surface Elevation Grids
 - Flood Depth Grids
 - Percent Annual Chance & Percent 30-year Chance

Path Forward

Schedule

- June 2023 – Complete Survey Data
- July 2023 – Complete Hydrologic Data
- November 2023 – Complete Hydraulic Data
- March 2024 – Complete Flood Risk Products
- March 2024 – Complete DFIRM
- April 2024 – Flood Engineering Review Meeting



Data will be hosted on KDA's web viewer as it becomes available

Questions?



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