

## Progress Report on Implementation of Credited Plan

Date this Report was Prepared: July 15, 2021

Name of Community: City of El Lago

Name of Plan: Harris County Multi-Hazard Mitigation Action Plan

Date of Adoption of Plan: May 20, 2020

5 Year CRS Expiration Date: 2025

1. How can a copy of the original plan or area analysis report be obtained:

Volumes 1 (“Area-Wide Elements”) and 2 (“Planning Partner Annexes”) of the 2020 Harris County All Hazard Mitigation Plan are accessible on the Harris County website at [www.readyharris.org](http://www.readyharris.org) (specifically at <https://www.readyharris.org/Contact/After-Action-Reports-And-Other-Resources/Mitigation-Planning>). A summary of the All-Hazards Mitigation Plan and a link to the above page are also on the City of El Lago’s website at <http://www.ellago-tx.com/157/Emergency-Management-Resources>.

2. Describe how this evaluation report was prepared and how it was submitted to the governing body, released to the media, and made available to the public.

This evaluation report was prepared by the City’s Floodplain Administrator with assistance from the City’s CRS consultant. The progress report was submitted to the governing body via email to the mayor and council members. It was released to the media by public notice and upon request, and was uploaded to the City’s website.

3. Provide a description of the implementation of each recommendation or action item in the action plan or area analysis report, including a statement on how the project was implemented or not implemented during the previous year.

- **Action #1: Improve code/ordinances to require vegetation management and install drought resistant landscape.**  
STATUS: Completed in 2017. This action item will be removed from the next progress report.
- **Action #2: Harden water piping lines and systems to prevent loss of water due to breaks in coordination with Water Control and Improvement District #50 (WCID 50).**  
STATUS: Carried over to 2020 Plan update.
- **Action #3: Improve code/ordinances to require minimum burial depth below 6 feet.**  
STATUS: No longer relevant; the City is 98% built out. This action item will be removed from the next progress report.

- **Action #4: Establish code/ordinance to require shutoff valves at entry and exit point of city limits for new construction.**  
 STATUS: No longer relevant; no new pipelines will be constructed in the city. This action item will be removed from the next progress report.
- **Action #5: Install new emergency generator at City Hall.**  
 STATUS: Carried over to 2020 Plan update.
- **Action #6: Expand mass communication warning system to include notifications and alerts for all-hazards to provide automated landline and cellular calling, email notification as well as automatic posting to the city website.**  
 STATUS: Completed over a period of several years. This action item will be removed from the next progress report.
- **Action #7: Acquisition of flood prone properties.**  
 STATUS: Ongoing. Some property has been acquired; additional acquisitions anticipated.  
 Carried over to 2020 Plan update.
- **Action #8: Expand city warning system to include flood stage warning.**  
 STATUS: Carried over to 2020 Plan update.
- **Action #9: Harden protective structures to minimize damage to critical structures.**  
 STATUS: Ongoing. Improvements were made for 98 Lakeshore, current courthouse, and police department headquarters. Carried over to 2020 Plan update.
- **Action #10: Harden existing city building to mitigate damages by installing protective barriers and shatter resistant glass.**  
 STATUS: Ongoing. Improvements were made to current City Hall. Carried over to 2020 Plan update.
- **Action #11: Improve detection systems for monitoring alerts.**  
 STATUS: Completed in 2016. This action item will be removed from the next progress report.
- **Action #12: Elevate new public safety building above base flood elevation and harden to withstand high winds and flooding.**  
 STATUS: Carried over to 2020 Plan update.
- **Action #13: Provide electrical surge protection for electrical systems in critical facilities.**  
 STATUS: Carried over to 2020 Plan update.
- **Action #14: Establish buffer zones/defensible space around critical infrastructure.**  
 STATUS: Completed in 2016. This action item will be removed from the next progress report.
- **Action #15: Develop ordinance requiring underground utilities on new structures or replacement of existing utilities.**  
 STATUS: Carried over to 2020 Plan update.

- **Action #16: Inflow prevention utilizing a back-flow preventer.**  
STATUS: Also investigating physical barriers. Carried over to 2020 Plan update.
- **Action #17: Weather Head Reduction Partial Reimbursement Program adopting ordinance requiring all power service lines to residences and businesses be routed underground and cooperative effort to re-route existing power services.**  
STATUS: Carried over to 2020 Plan update.
- **Action #18: Harden city infrastructure to protect against damages caused by lightning and power surges.**  
STATUS: Carried over to 2020 Plan update.
- **Action #19: Implement program to relocate and shelter vulnerable populations during extreme heat events at designated facilities.**  
STATUS: No longer relevant. The program is handled by CERT and other agencies. This action item will be removed from the next progress report.
- **Action #20: Develop and establish community wide water smart program.**  
STATUS: Completed. WCID #50 maintains a water conservation system during draughts. This action item will be removed from the next progress report.
- **Action #21: Ordinances for burning restrictions and storage/disposal of flammable materials.**  
STATUS: Completed – adopted in Ordinance #184 and Ordinance #263. This action item will be removed from the next progress report.
- **Action #22: Construct shelter for critical city vehicles and equipment.**  
STATUS: Completed. Critical vehicles and equipment can be relocated to a safe location. This action item will be removed from the next progress report.

4. Discuss why any objectives were not reached or why implementation is behind schedule.

Staffing, resources, and budget are limited in a city of this size. Much of the cost required for completion of these projects involves competitive grant funding. The city does not have the staffing, resources, and budget to assemble the grant application and the local match requirements.

5. What are the recommendations for new projects or revised recommendations?

The Harris County All Hazard Mitigation Plan was updated in 2019, and officially adopted by FEMA in April 2020. The City of El Lago City Council adopted the Plan on May 20, 2020 (resolution attached). The following are revised and/or new mitigation actions included in the updated Plan:

- **Action LAG1: Where appropriate, support elevating, floodproofing (retrofitting), purchase or relocation of structures located in hazard areas, prioritizing those that have experienced repetitive losses and/or located in high- or medium-risk hazard areas.**

- **Action LAG2: Integrate the hazard mitigation plan into other plans, ordinances, and programs that dictate land use decisions in the community, including emergency air evacuation and response from McNair Park.**
- **Action LAG3: Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.**
- **Action LAG4: Continue to maintain good standing and compliance under the NFIP through implementation of floodplain management programs that, at a minimum, meet the NFIP requirements:**
  - **Enforce the flood damage prevention ordinance.**
  - **Participate in floodplain identification and mapping updates.**
  - **Provide public assistance/information on floodplain requirements and impacts.**
- **Action LAG5: Harden water piping lines and systems to prevent loss of water due to breaks in coordination with Water Control and Improvement District #50 (WCID 50).**
- **Action LAG6: Install new emergency generator at city hall.**
- **Action LAG7: Expand city warning system to include flood stage warning – signs or water level indicators at three boat launches, Boondoggles restaurant, and boat repair yard.**
- **Action LAG8: Harden courthouse/LVPD headquarters structure to minimize damage to a critical structure.**
- **Action LAG9: Harden existing City Hall building to mitigate damages by installing protective barriers and shatter resistant glass.**
- **Action LAG10: Replace courthouse/LVPD headquarters structure with a new emergency operations facility designed to withstand multiple hazards and electrical outages.**
- **Action LAG11: Provide electrical surge protection and lightning rods for electrical systems in critical facilities including harden city infrastructure to protect against damages caused by lightning and power surges.**
- **Action LAG12: Develop ordinance requiring underground utilities on new structures or replacement of existing utilities and Weather Head Reduction Partial Reimbursement Program adoption ordinance requiring all power services lines to residences and businesses be routed underground and cooperative effort to re-route existing power services.**
- **Action LAG13: Inflow prevention utilizing back-flow preventers and/or physical barriers.**
- **Action LAG14: Investigate and install active pumped storm drainage systems.**
- **Action LAG15: Increase fire water system capacity, piping, pumps, hydrants, etc. to provide increased water flow in emergencies.**

- **Action LAG16: Review and update as needed, city ordinances, and building codes to ensure compliance with current Federal, State, and local regulatory agencies.**
- **Action LAG17: Complete WCID 50 project to improve storm water drainage capabilities involving many south side lines and the main headers on Whitecap and Crestwood.**
- **Action LAG18: Track natural hazard events and the damage caused, including substantially damaged properties.**
- **Action LAG19: Remediate homeowners' sanitary sewer lines to prevent storm water from entering the system.**
- **Action LAG20: Actively participate in and support the implementation of the six area-wide actions identified in Volume 1 of this plan.**