

Old Lampasas Dam

TX07295

Council District 6 - Safety Meeting
January 24, 2024

Agenda

- Welcome and Introductions
- Project Background
- Project Elements & Status
- Next Steps & Impacts
- Questions

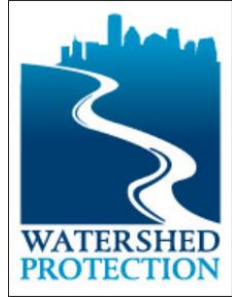


Watershed Protection Department

- Protects lives, property and the environment of our community by reducing the impact of flooding, erosion and water pollution.



Introductions



Project Sponsor Team:
Marie Lancaster, E.I.T.
Henry Price, P.E.



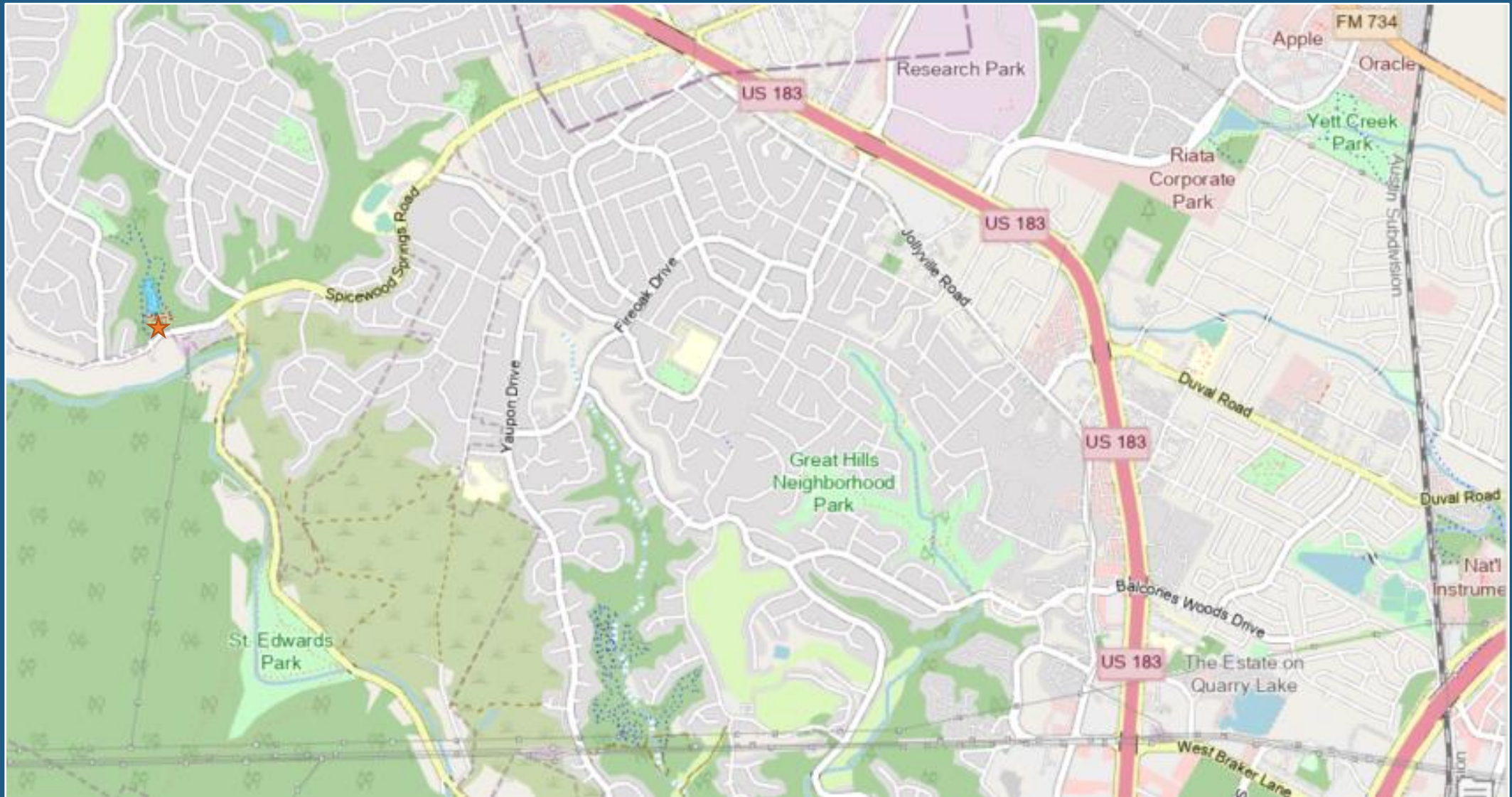
CAPITAL DELIVERY
SERVICES

Project Manager:
Minda Sarmiento, P.E.

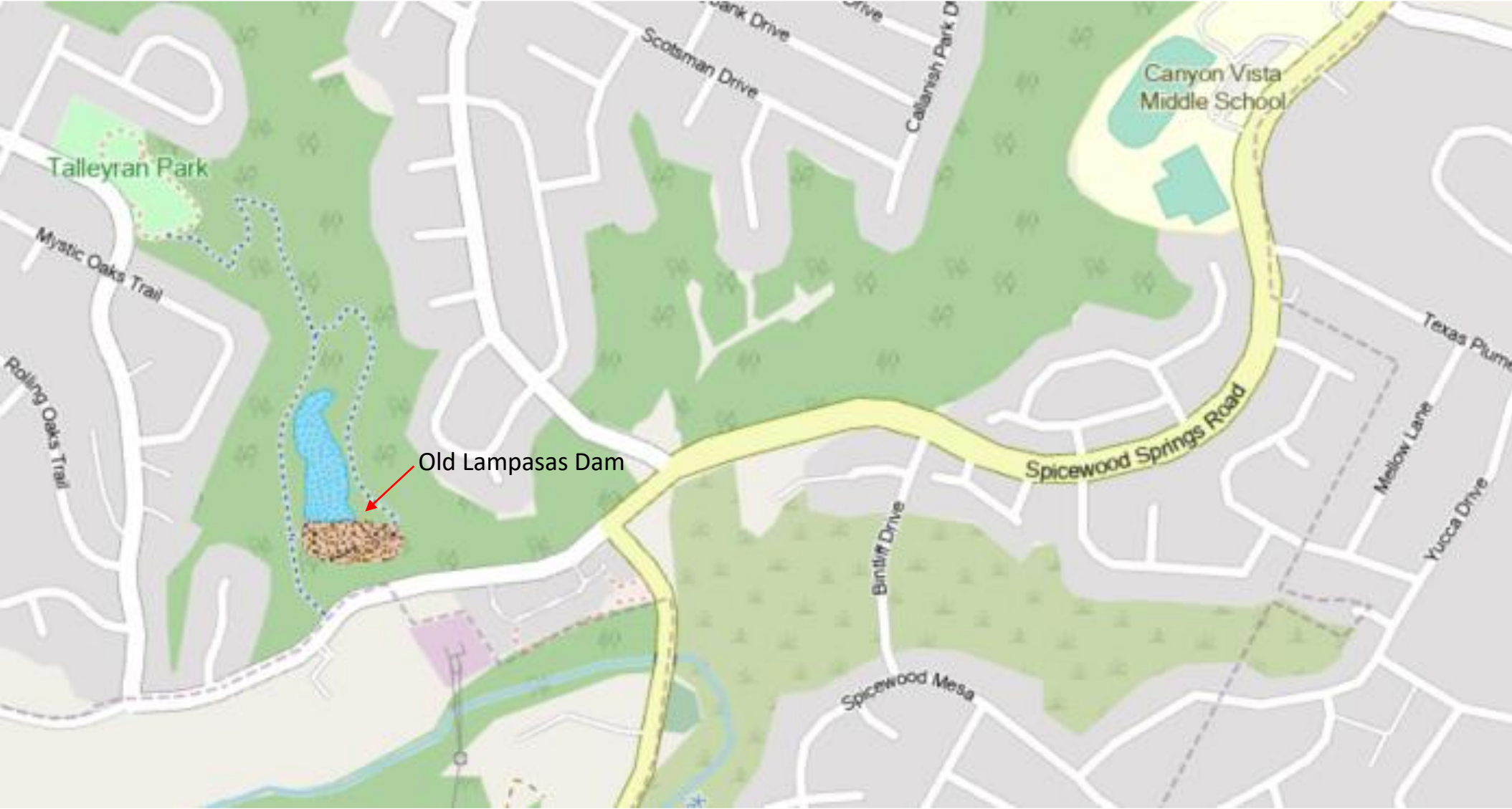


Project Consultant:
Kim Patak, P.E.

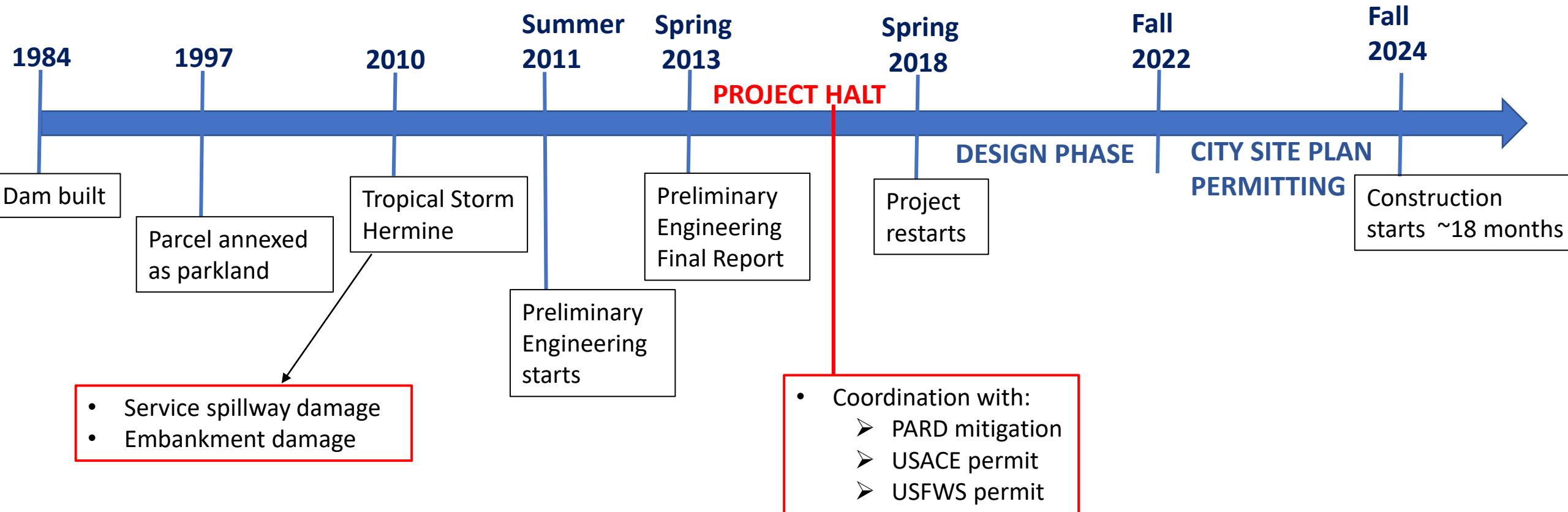
Project Location



Project Location



Project History



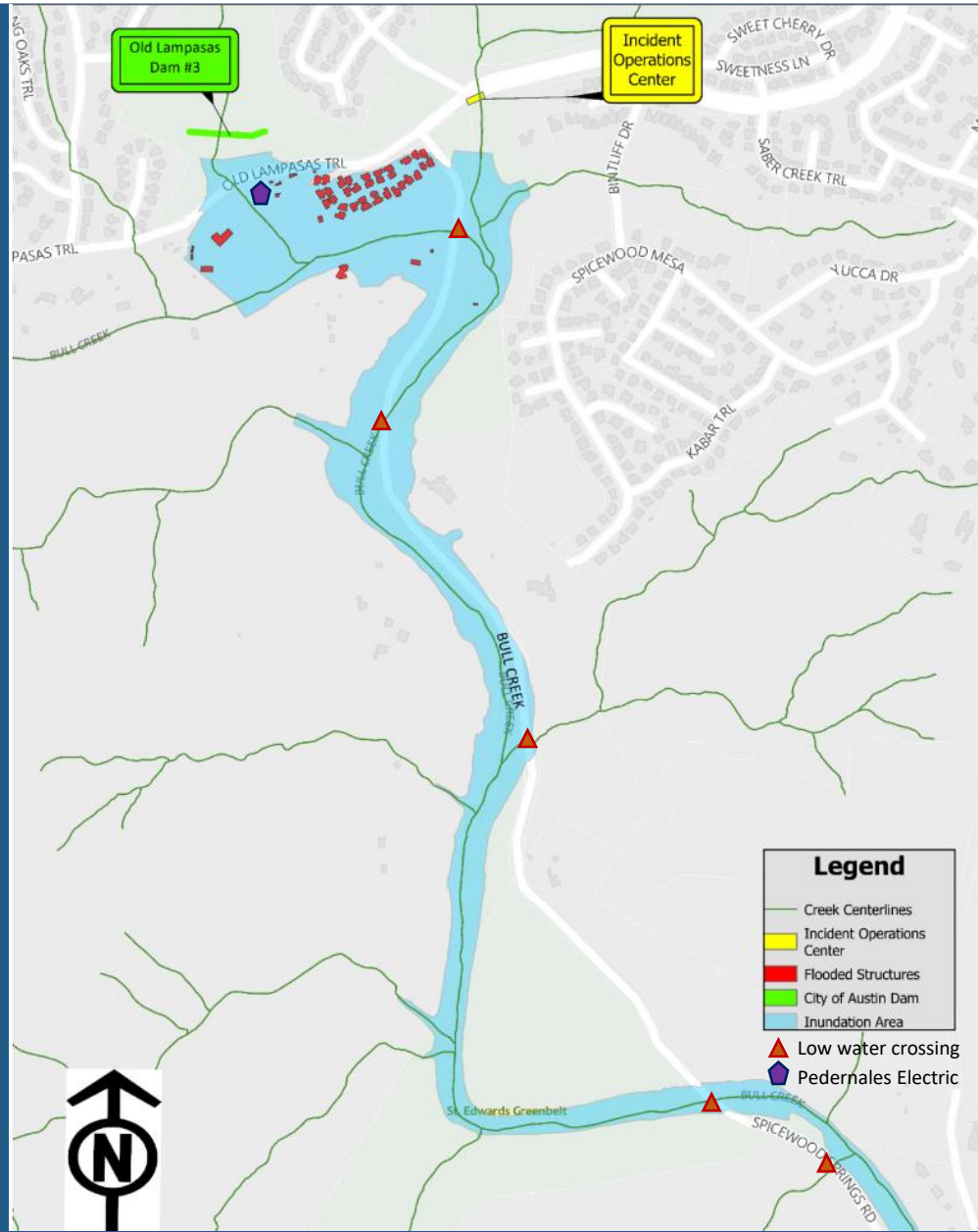
TCEQ Dam Safety Program

Texas Administrative Code Title 30, Part 1, Chapter 299: Dams and Reservoirs

- Old Lampasas is a high hazard dam in poor conditions



Inundation Map



- Over 30 downstream structures at risk of flooding
- 2 roads at risk of flooding
- 6 low water crossings at risk of flooding
- Pedernales Electric substation



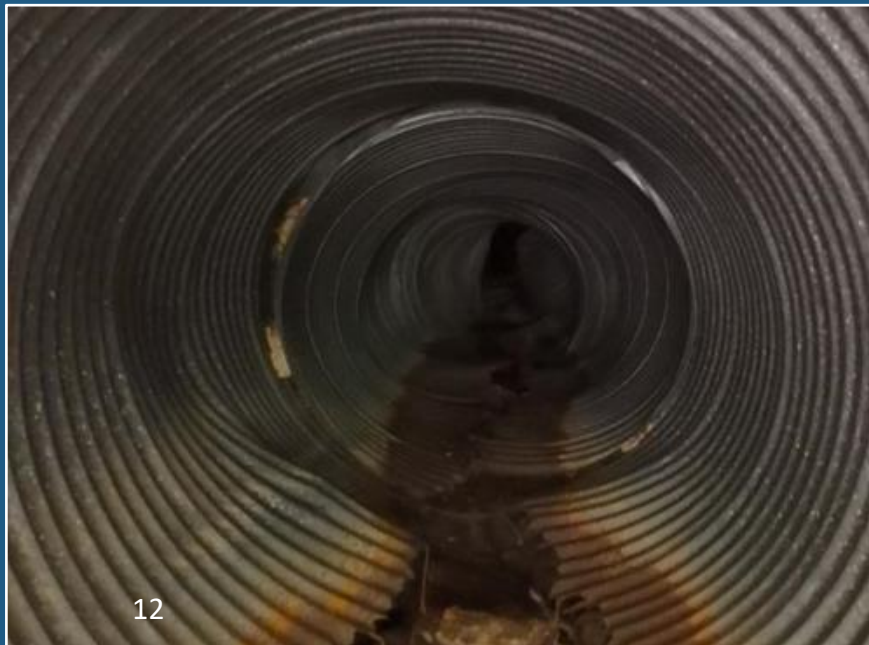
Erosion on slope





Project Scope

- Replace damaged, existing principal spillway with new 42-inch diameter pipe
- Replacement of the existing wastewater line through the embankment of the dam
- Removal of existing trees and boulders on dam footprint
- Installation of a new Flood Early Warning System instrumentation



Project Scope

- Armoring of the existing plunge pool to reduce future erosion impacts
- Construction of a new auxiliary spillway
- New maintenance drive to give the City access to maintain the dam
- Raise and reinforce dam structure to contain the worst case scenario flood and meet City and State Dam Safety criteria



Project Scope



- Propose new outflow structure that provides extended detention for additional water quality benefits
- Estimated construction time 18 months
- Estimated construction cost \$12.8M

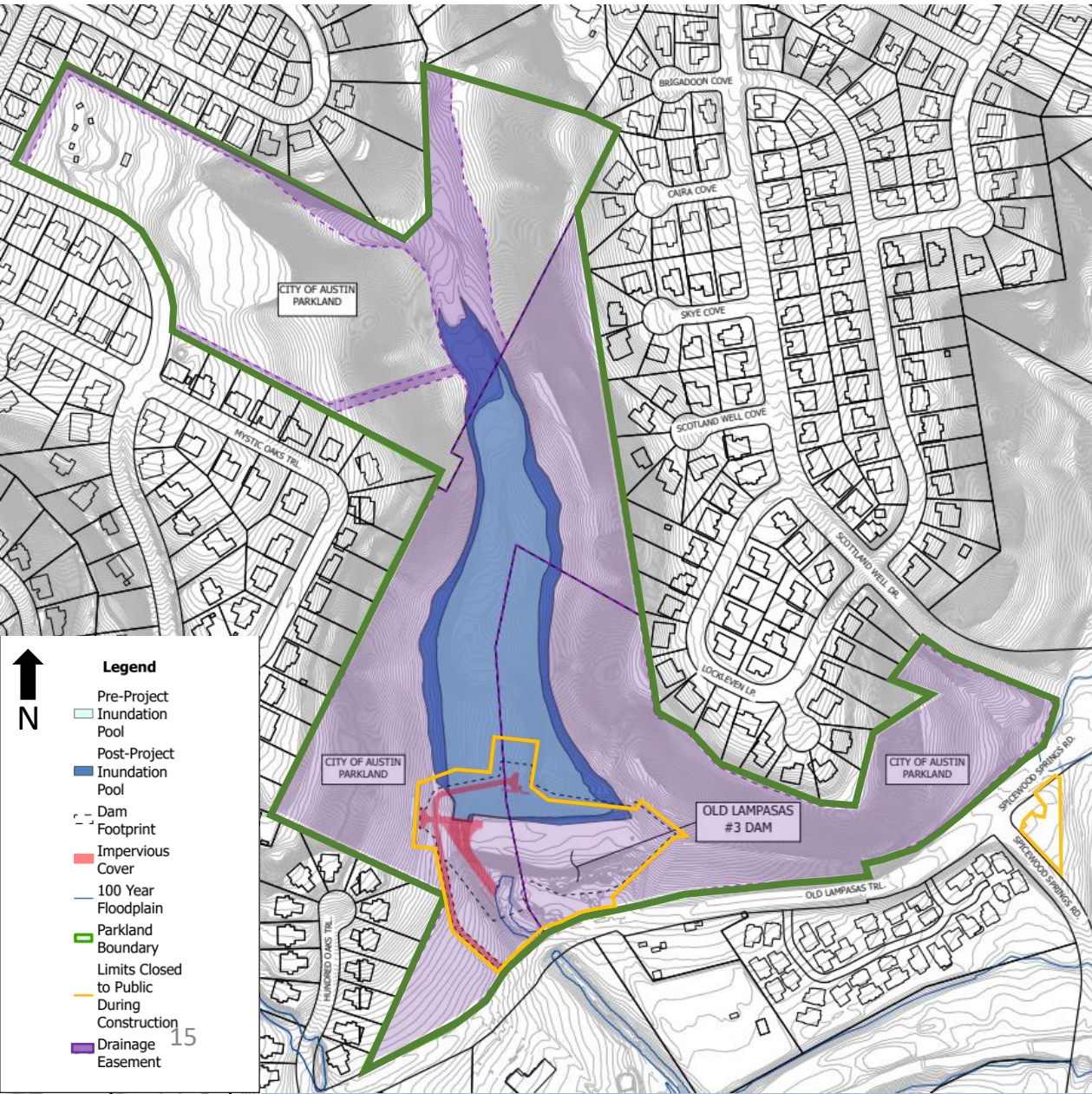
Possible Construction Impacts and Project Benefits

➤ Impacts:

- Trail closures (detours)
- Truck staging and traffic (no closure)
- Boulder and tree removal
- Material and equipment staging areas

➤ Benefits:

- Reduced flood risk
- Modernization and rehabilitation of City infrastructure on parkland
- Improvements to the dam to meet City and State criteria
- Reuse of tree material and boulders for City parks



Next Steps

- Finalize City Permit
- Advertise for Bid/Award
- Conduct Meet the Contractor Meeting
- Start Construction- Fall 2024
- Construction length: ~18 months



Questions?

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Watershed Protection Department Project Sponsor:

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Project website:

www.austintexas.gov/department/old-lampasas-dam-modernization