

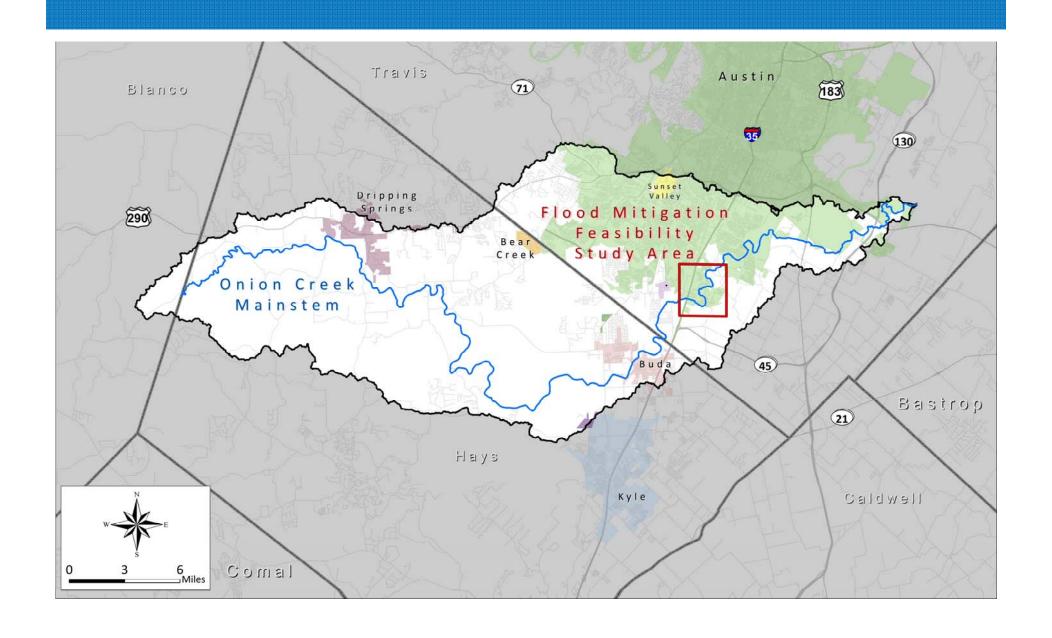
Presentation Topics

- Background & Flood Risk
- Engineering Study Results
 - Final Alternatives
 - Evaluation Criteria
 - Recommended Solution
- Next Steps

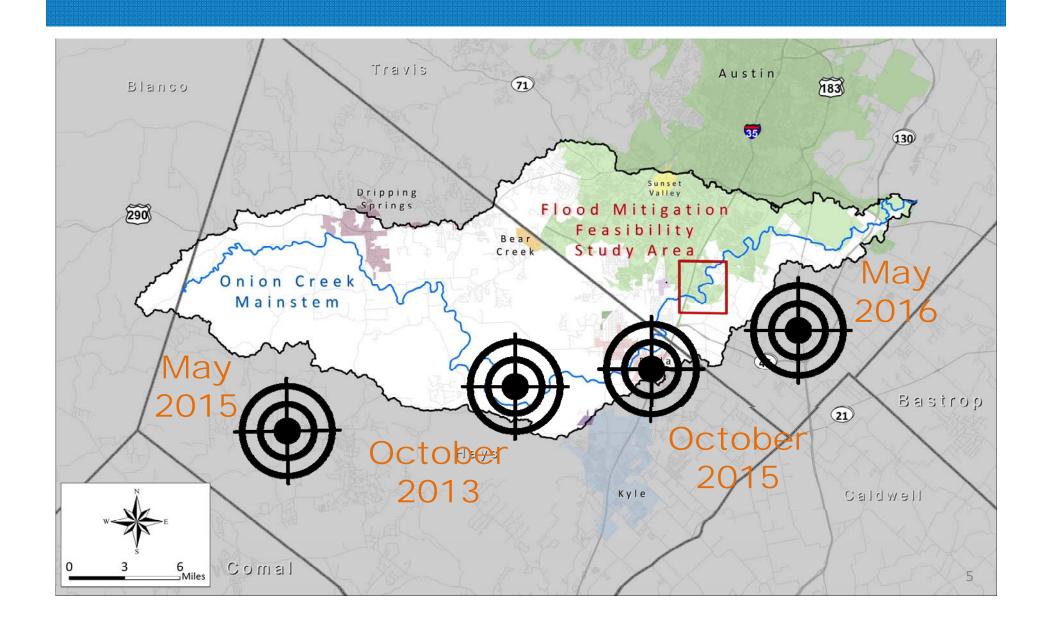




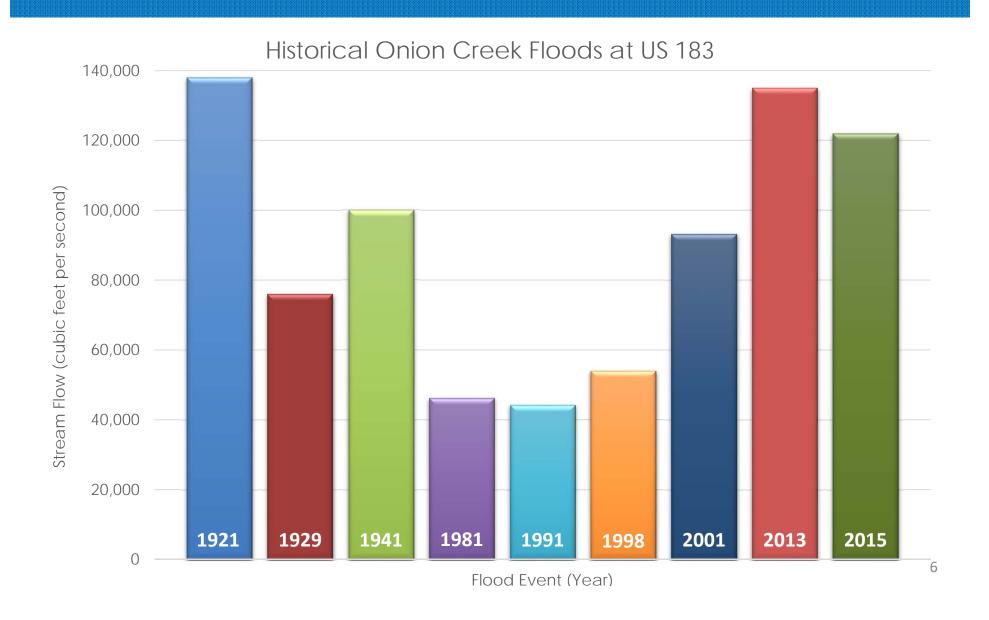
Onion Creek Watershed



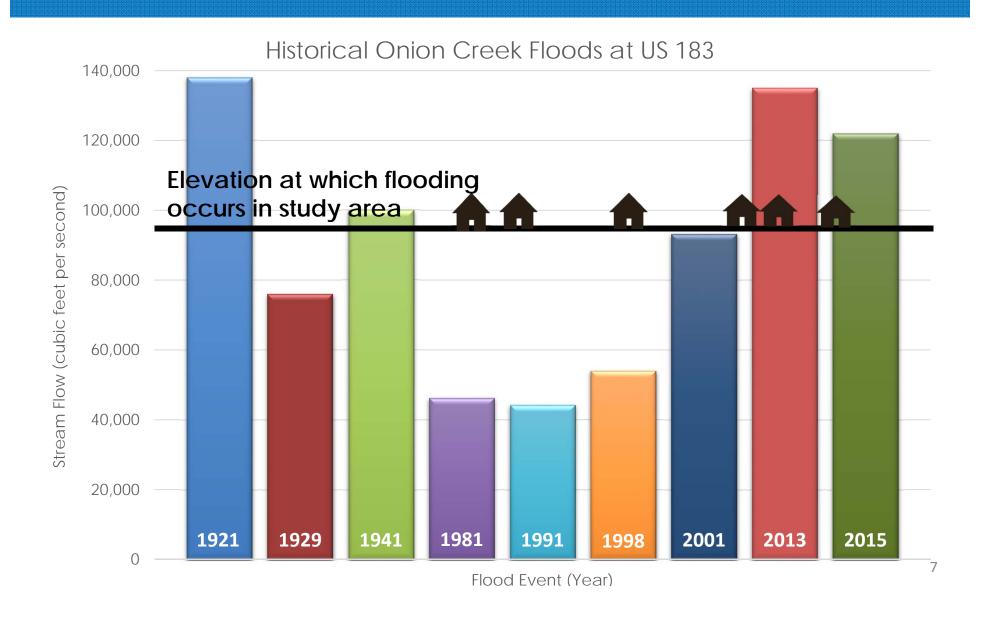
Flood Risk: Where the rain falls matters



Flood Risk: How much rain matters

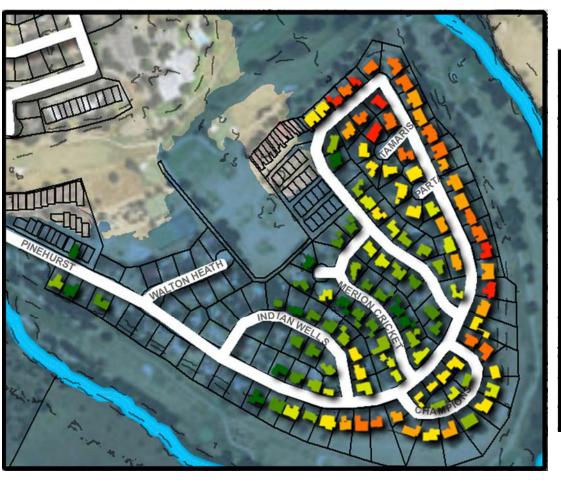


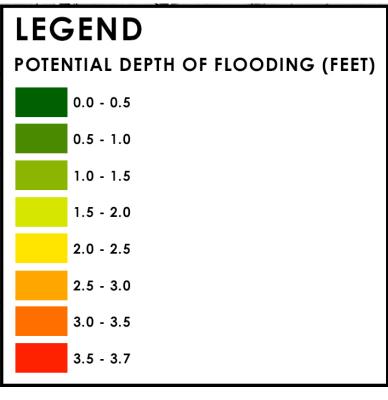
Flood Risk: How much rain matters



Existing Condition 100-year Flood Risk

Pinehurst Neighborhood (115 houses at risk of interior flooding)

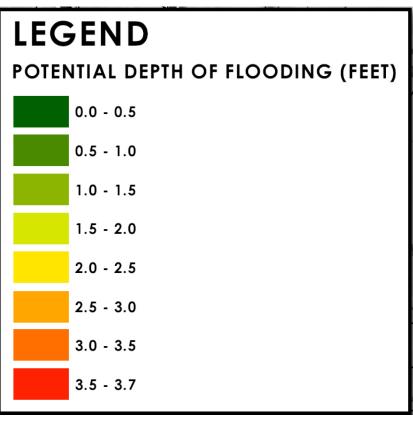




Existing Condition 100-year Flood Risk

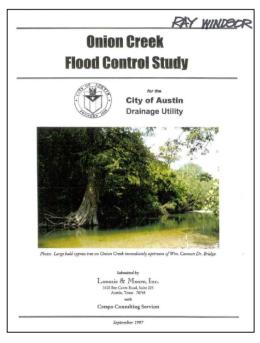
Wild Dunes Neighborhood (23 houses at risk of interior flooding)

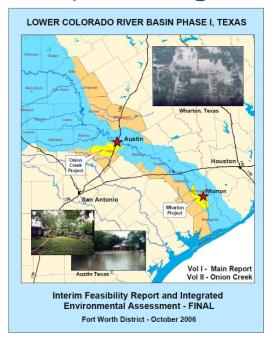


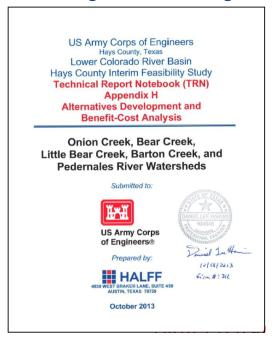


Previous Studies

- 1997 Loomis and Moore (City of Austin)
- 2006 U.S. Army Corps of Engineers (Travis County, City of Austin)
- 2013 U.S. Army Corps of Engineers (Hays County)









Final Alternatives

Stand-Alone Options

- Centex West Detention Pond
- Channel Clearing
- Buyouts
 - Pinehurst Neighborhood
 - Wild Dunes Neighborhood

Combined Options

- Centex West Detention Pond with Channel Modifications
- Pinehurst Flood Protection Wall with Channel Modifications
- Pinehurst Flood Protection Wall with Wild Dunes Buyouts

Evaluation Criteria

- Flood Risk Reduction Benefits & Costs
- Time of Implementation
- Neighborhood Input
- Funding Constraints
- Environmental Impacts
- Land & Easement Acquisition Required
- Complexity of Permitting

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100-year Flood Risk Reduction

Buyouts	138 houses
Floodwall with Wild Dunes Buyouts	138 houses
Floodwall with Channel Modifications	138 houses
Centex Pond with Channel Modifications	Up to 110 houses*
Centex Pond	Up to 78 houses*
Channel Clearing	51 houses

^{*} Dependent upon rainfall being located upstream of pond

Time of Completion Once Funded

Buyouts	2 years
Channel Clearing	2 to 5 years
Floodwall with Wild Dunes Buyouts	5 to 7 years
Floodwall with Channel Modifications	7 to 10 years
Centex Pond with Channel Modifications	Over 10 years
Centex Pond	Over 10 years

Final Evaluation Scores

Alternative	Score
Buyouts	455
Pinehurst Floodwall & Wild Dunes Buyouts	350
Channel Clearing	270
Pinehurst Floodwall & Wild Dunes Channel Modifications	245
Centex West Regional Pond	235
Centex West Pond & Wild Dunes Channel Modifications	180

Final Evaluation Scores

Alternative	Score
Buyouts	455
Pinehurst Floodwall & Wild Dunes Buyouts	350
Channel Clearing	270
Pinehurst Floodwall & Wild Dunes Channel Modifications	245
Centex West Regional Pond	235
Centex West Pond & Wild Dunes Channel Modifications	180

Recommended Solution – Buyouts

- 138 houses at risk of interior flooding in a 100-year event
 - 10 buyouts currently underway per Council direction
 - 128 houses remaining at risk
- Contingent upon Council approval of use of funding
- Funding is available to begin buyout process for 45-50 additional houses in 2018 (Phase 1)
- Prioritization based on flood risk



Next Steps

Neighborhood Meeting November 14 Update to
Environmental
Commission
December 6*

City Council
Discussion &
Consideration
TBD

