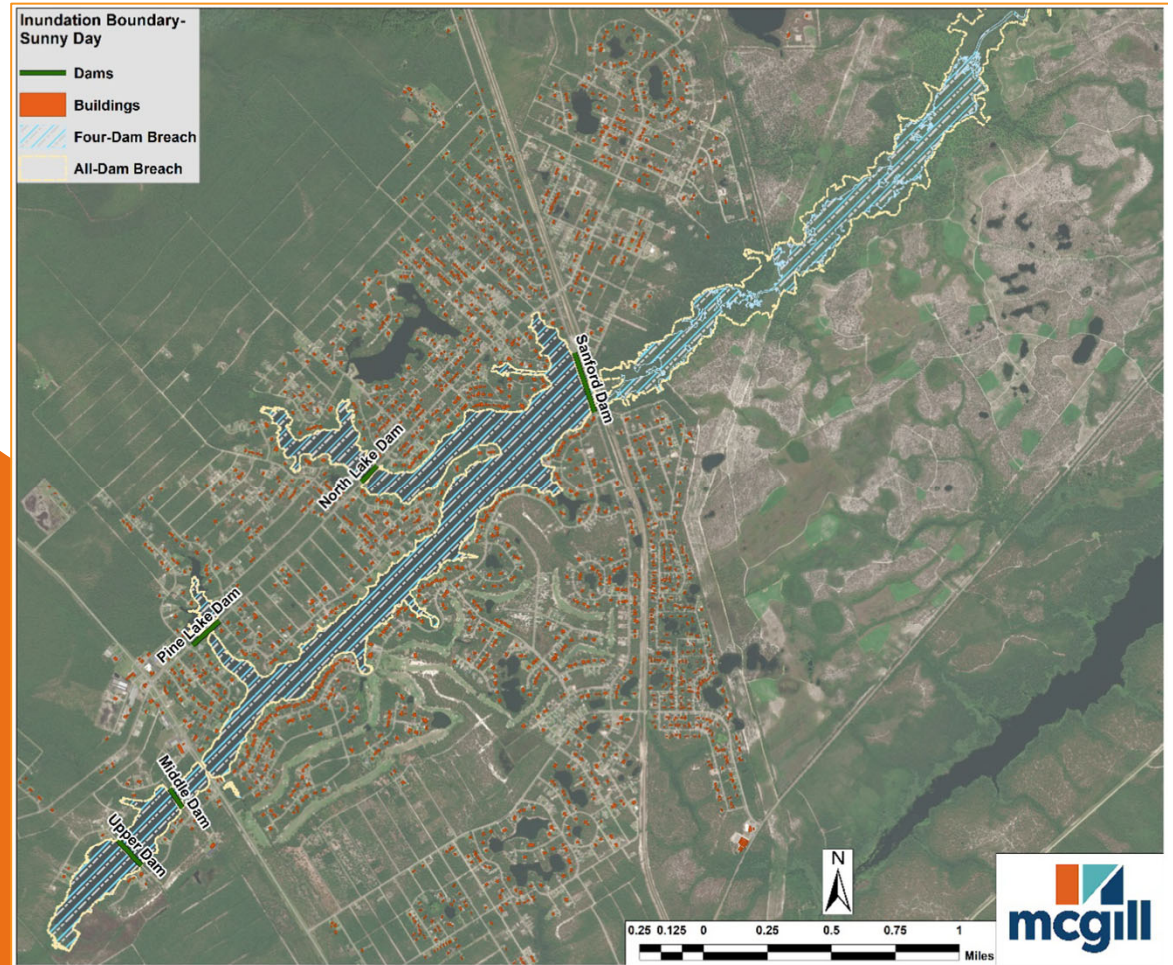




## BOILING SPRING LAKES DAMS CONSTRUCTION/RECONSTRUCTION

90% Board Update

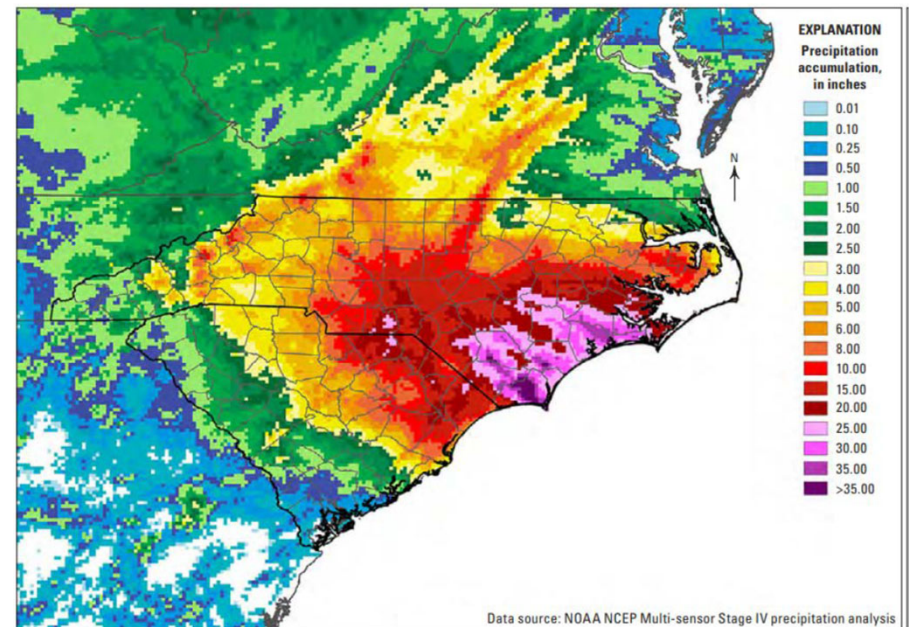
January 24, 2021





## Agenda

- 90% Design Update
- FEMA
- City's Potential Cost Share
- RFQ (Prequalification)
- Next Steps





## Project Status

Notable Events Since 60%	
• PLD/NLD Eligible Cost Submittal	9/28/20
• RFQ Issued	10/14/20
• Pre 90% call with Dam Safety	10/20/20
• SD/ULD Eligible Cost Submittal	12/22/20
• <del>Start Construction</del> <small>NCDEQ 90% Submittal Date</small>	1/14/21
• Qualified Bidder's List and Easements	1/22/21



## Recent FEMA Coordination

- **Date:** 9/28/2020
- **Topics**
  - ✓ PLD, NLD and EBSR
  - ✓ NCDOT project
- **Results**
  - ✓ FEMA sent to CRC on 1/22/2021
- **Date:** 12/20/20
- **Topics**
  - ✓ SD and ULD
- **Results**
  - ✓ CRC review nearing approval

Discussions on Mitigation for all Dams will commence once we have base costs approved. Anticipate up to 100% of base cost



## Projected City Cost Share

Dam	Improved Project Cost <sup>1</sup>	FEMA Eligible Base Cost	FEMA CEF	Potential Mitigation <sup>3</sup>	City's Share
SD	\$28,046,648	\$ 5,725,308	\$ 3,391,909	\$ 5,725,308	\$13,204,124
ULD	\$1,994,921	\$356,351	\$ 298,288	\$356,351	\$983,932
NLD <sup>2</sup>	\$1,524,667	\$483,077	\$ 400,954	\$1,758,077	\$0
PLD <sup>2</sup>	\$1,246,648	\$293,847	\$ 243,893	\$703,847	\$5,061
<b>TOTAL</b>	<b>\$32,812,884</b>	<b>\$6,858,582</b>	<b>\$4,335,044</b>	<b>\$7,268,582</b>	<b>\$14,193,116</b>
1 Based on Engineer's 90% Estimate of Probable Construction Cost					
2 Based on prelim submittal and CEF from ULD, actual eligible cost may vary					
3 Mitigation limited 100% FEMA Base SD/ULD, Includes NCDOT costs for PLD/NLD					

**Note: All amounts are still tentative pending FEMA approval**

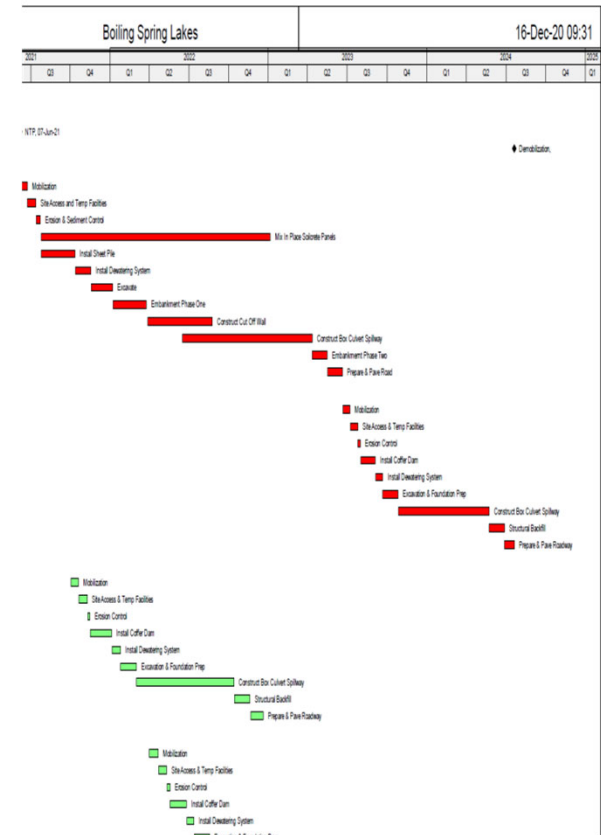




# Schedule



- Durations from Contractors ranged from 2.5 to 4 years with an average of 3 years
- Engineer's estimate is 3-4 years
- Cost will increase as duration limit reduces
- Example: Paving Drayton Road (est. \$550K) would allow PLD and NLD to proceed in parallel which could save 3-4 months. This is currently an Alternate Bid Item.
- Consider adding incentives







## Next Steps

Critical Dates	
• Submittal to Dam Safety	12/23/20
• Coordinate FEMA Eligible Costs and Mitigation	12/20/20 - 3/1/21
• Dam Safety Review and Approval	1/14/21 to 4/14/21
• Bidding and Contractor Selection	4/14/21 to 6/15/21
• Start Construction	7/1/21