

# East Branch

## Dam Safety Modification Project

PUBLIC INFORMATION MEETING

September 12, 2012

Johnsonburg, Pa



# Why We Are Here

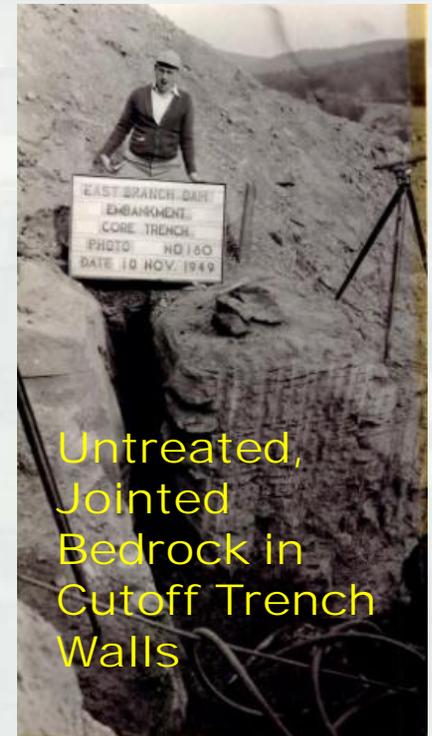
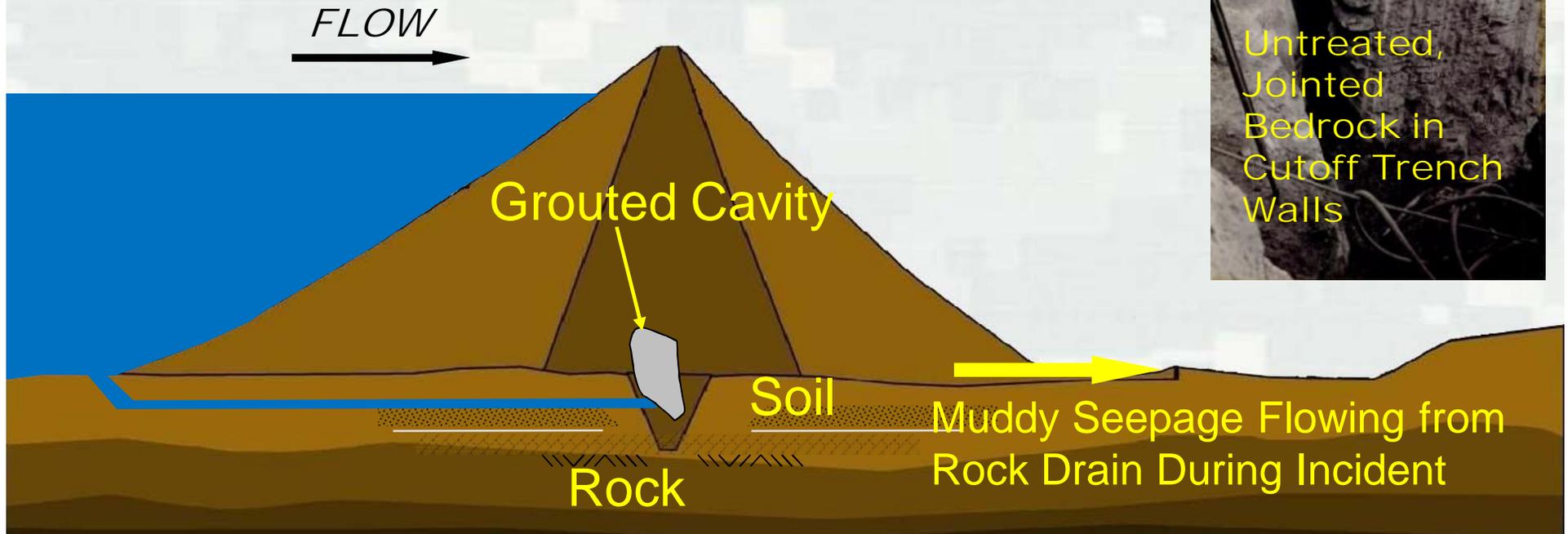
- Communicate actions to improve dam safety
  - What's The Problem
  - What's Been Done
  - The Way Ahead
  - Questions



# What's The Problem

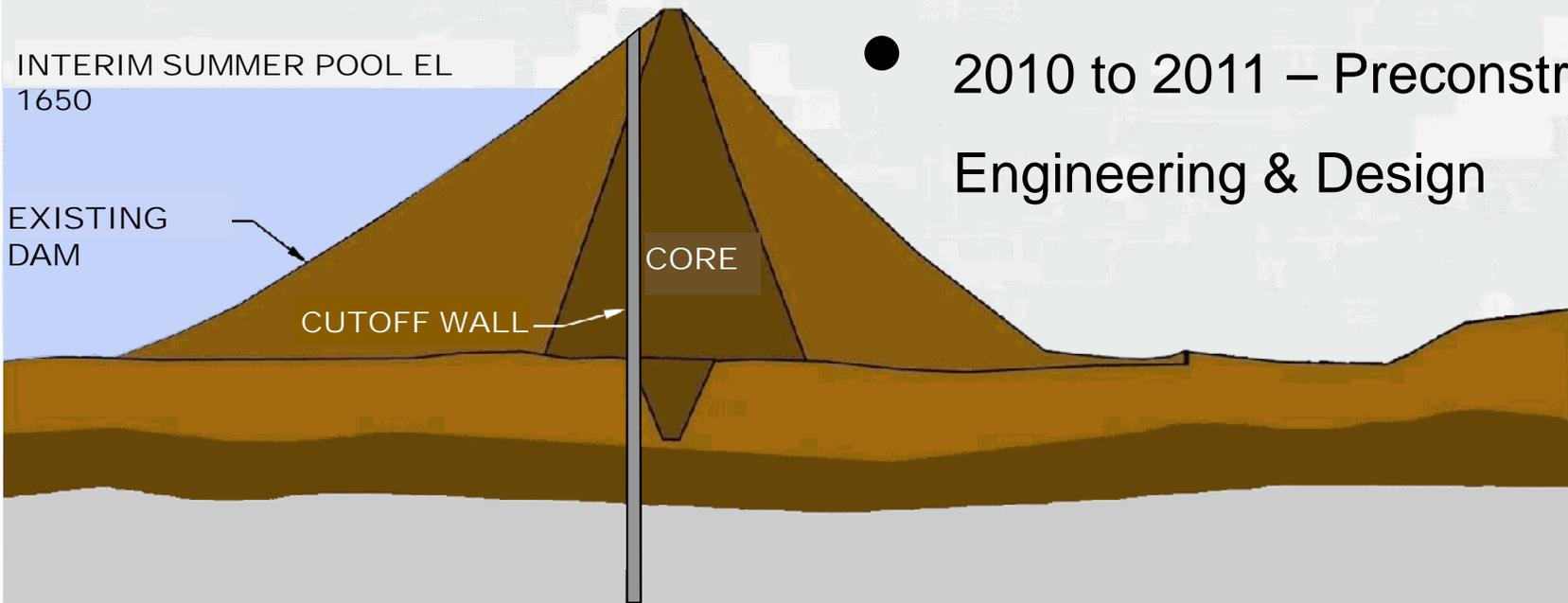
## Risk of Internal Erosion

Dam failure averted in 1957,  
but risk for re-initiation of  
internal erosion remains.



# What's Been Done

- 1957 to 2008 – Monitor Dam
- 2008 – Interim Risk Reduction
- 2008 to 2010 – Dam Safety Study
- 2010 to 2011 – Preconstruction, Engineering & Design



# What's Been Done

- Mar 2012 – Geotech Investigations Complete
- Jul 2012 – 9 New Piezometers Installed



# What's Been Done

## Initiate Construction - Site Development

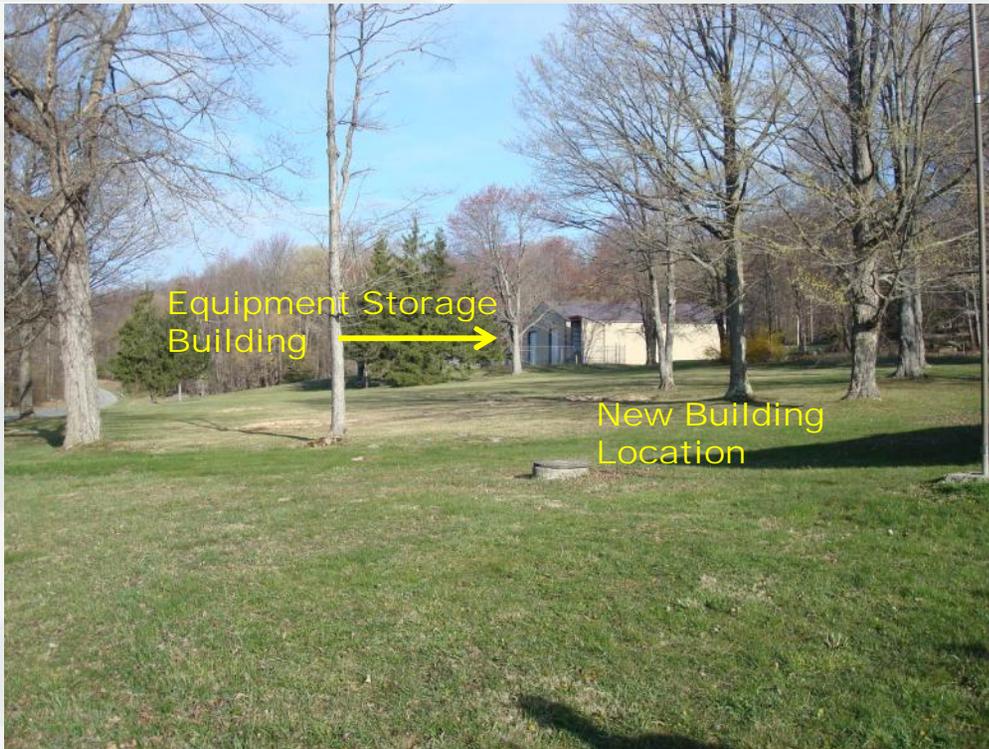
- Sep 2011 – Award Site Development Contract
- April 2012 – Contractor Mobilized





# The Way Ahead

## New Office Building



- March 29, 2012 - Proposals requested
- May 2, 2012 – Proposals due
- Sep 2012 – Award contract
- Aug 2013 – Construction Complete



# The Way Ahead

## Instrumentation Automation

- Automate readings of:
  - water levels within the dam
  - movements within the dam
  - pool and tail water levels
  - outflow turbidity, temperature, pH, etc.

Installation planned in this winter 2012 to obtain baseline readings before construction

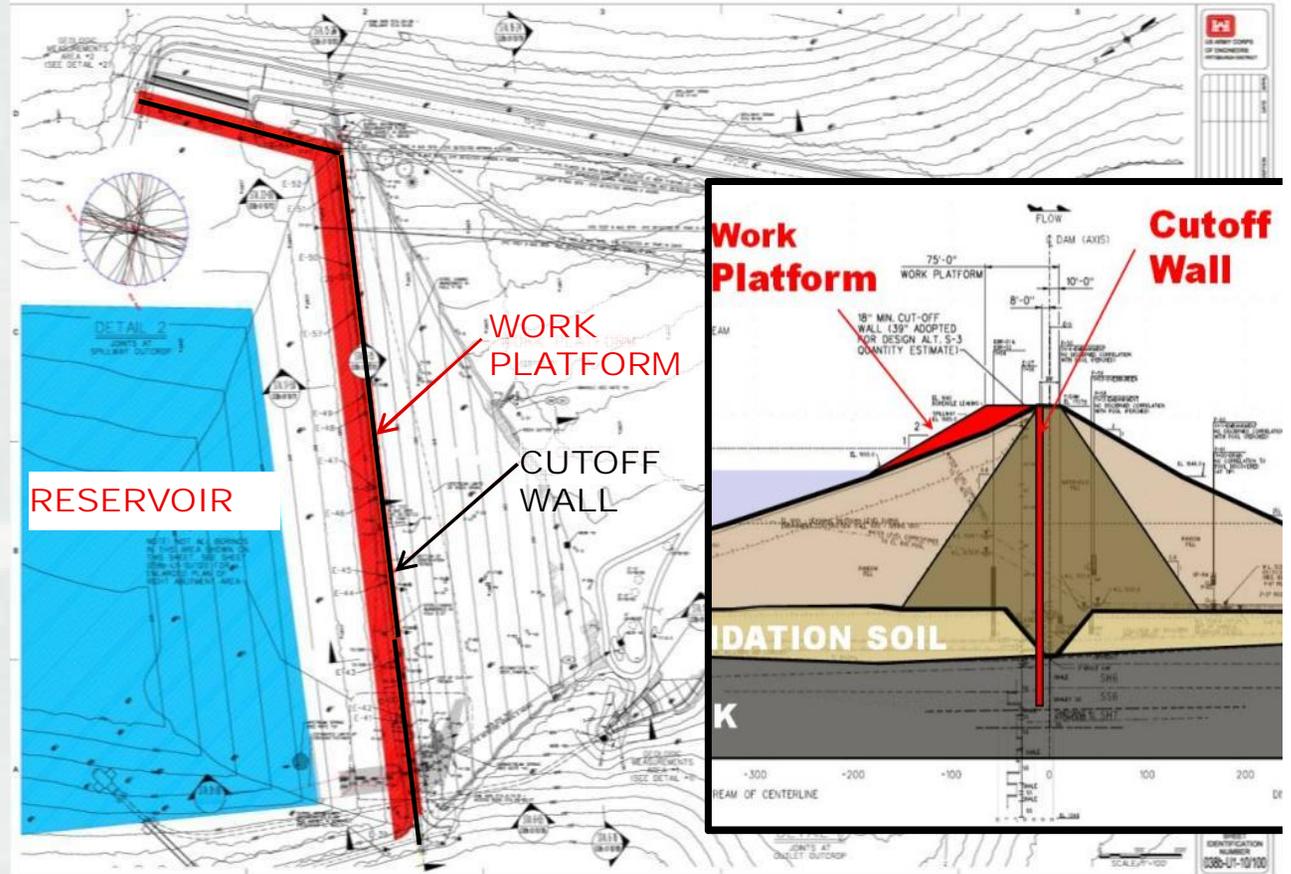


New Downstream  
Piezometer (PZ)

# The Way Ahead

## Cutoff Wall Construction

- March 2012 – Market Research
- Apr – Sep 2012 Continue Design
- Sep 2012 – Draft contract documents complete
- Winter 2012 – Advertise cutoff wall contract (Funding Dependent)
- Summer 2013 - Award cutoff wall contract



# The Way Ahead

## Summer 2013 – 2017 Complete Cutoff Wall (funding dependent)



**Wolf Creek Dam  
Work Platform**



**Hydromill**

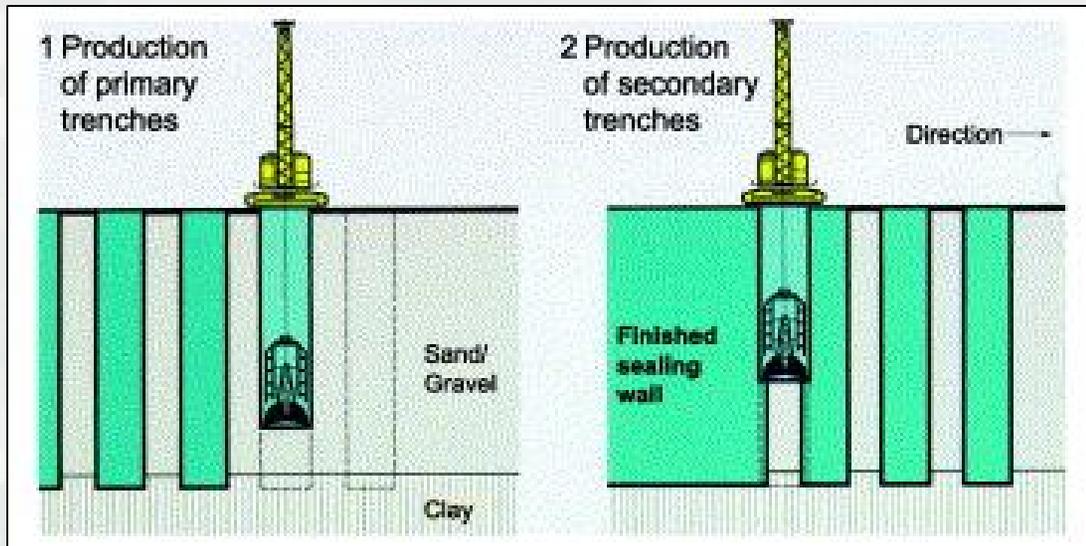


**Reverse  
Circulation  
Drill**

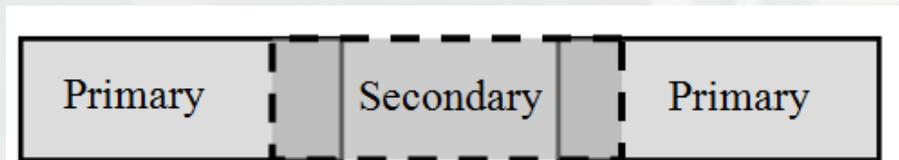
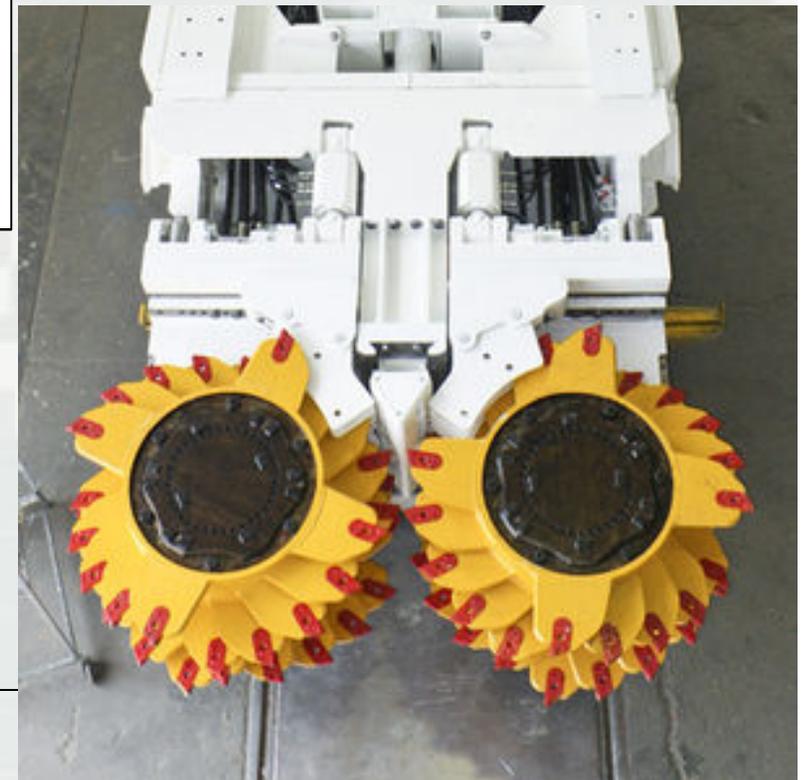


**Clearwater Dam  
Work Platform**

# Cutoff Wall Construction Techniques

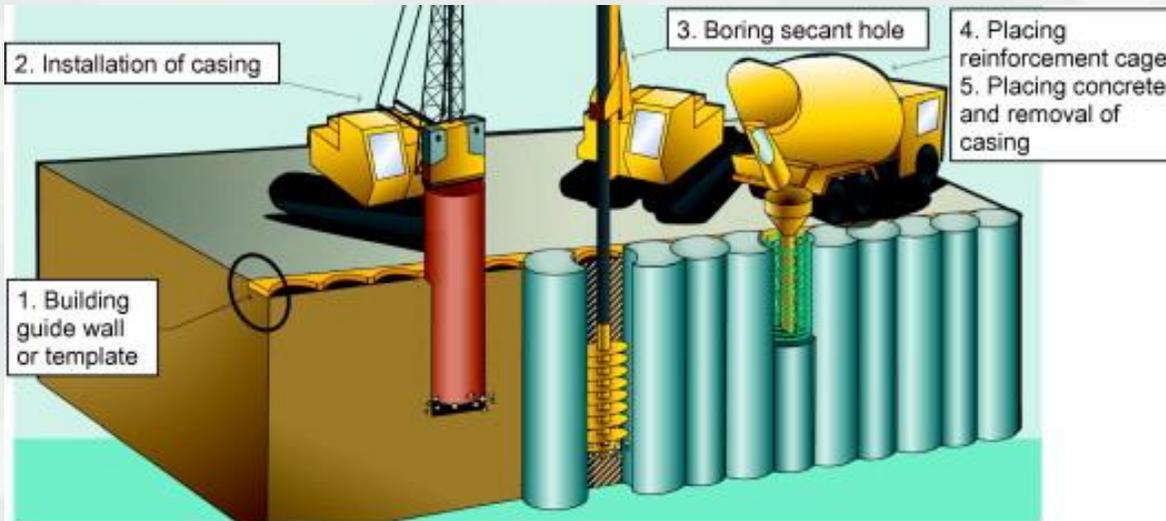


Hydromill

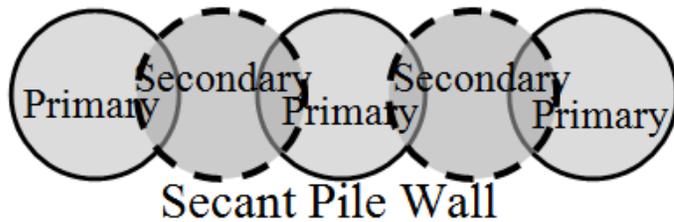


Overhead View

# Cutoff Wall Construction Techniques



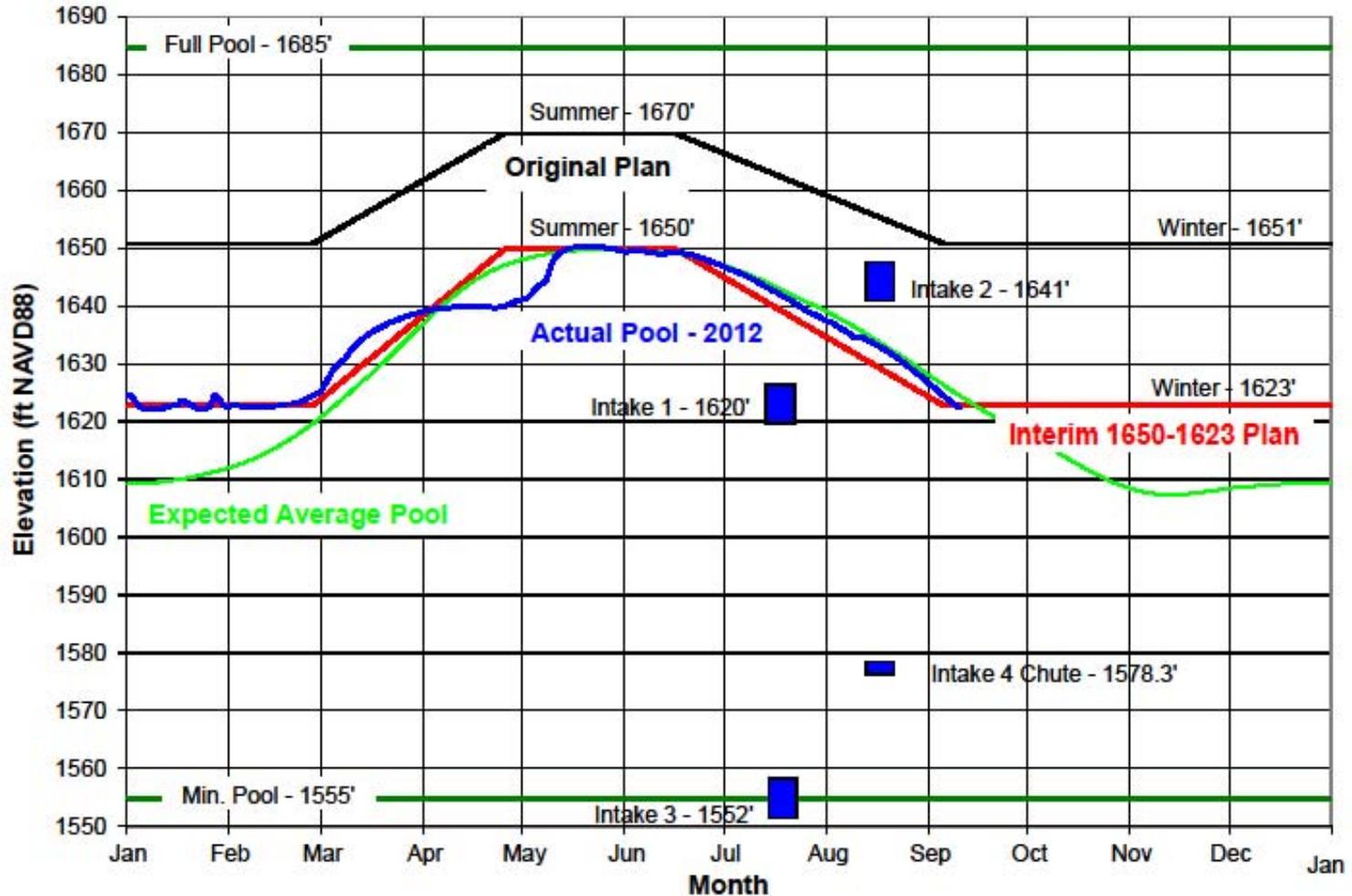
## Secant Pile Wall



# Dam Safety During Construction

East Branch Clarion River Lake  
1650-1623 Interim Water Control Plan

10 September 2012



# Dam Safety During Construction

- **Instrumentation**
  - Automated readings will trigger alerts within USACE if thresholds are exceeded
  - Emergency Response Plans will be in place throughout construction
- **Visual Inspection**
  - Continued 24-hour presence throughout construction
  - Trained surveillance crews
  - Notification plans will be revised as appropriate during construction
- **Incident Response Plan**
  - Slurry Loss
  - Hydrofracture
  - Slope Movement

Additional monitoring and care will be taken in the area of historic problems



# Environmental Safety During Construction

- National Pollutant Discharge Elimination System (NPDES) Permit
- Monitor Lake
  - Temperature
  - Water Quality
- Outflow Monitors
  - Turbidity
  - Temperature
  - pH





# Public Safety During Construction Access To Maple Lane



**BUILDING STRONG®**

# Public Safety During Construction

- Risk Based Assessment
- Traffic control plan
- Maintain access to Maple Lane from Government Road
- Federal boat launch restrictions may apply starting in 2014
- Overlook picnic area closed after Labor Day 2013 thru completion of construction
- Campground closed after Labor Day 2013 thru completion of construction



# Contact Information

## Resources

### East Branch Dam Operations

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# Questions ?

