HEARING IN THE MATTER OF CALIFORNIA DEPARTMENT OF WATER RESOURCES AND UNITED STATES BUREAU OF RECLAMATION’S REQUEST FOR A CHANGE IN POINT OF DIVERSION FOR CALIFORNIA WATER FIX

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BACKGROUND

• CWF Imposes Temporary Dewatering Impacts

• Mitigation Includes Slurry Cutoff Walls
  – Intakes
  – Pumping Plants
  – Forebay Embankments
  – Tunnel Shafts

• Permanent Solution to Temporary Impact
BACKGROUND

- Complex Delta Geology
- Active Holocene Process
- Many Concealed Former Channels
BACKGROUND

• Complex Delta Geomorphology

• Gradual and Abrupt Stratigraphy Changes

• 3-Dimensional Variations
  – Permeable Sands
  – Low Permeable Clays
  – Highly Variable Peat
TUNNELS
**Slurry Cutoff Walls** *(Exhibit DWR-218, p. 4)*

- “Groundwater that previously moved horizontally through the soil toward the excavation location would then be redirected by the slurry cutoff wall to move around the wall and construction site.”

![Diagram of Slurry Cutoff Walls and Groundwater Elevation](image-url)
IDENTIFICATION OF POTENTIAL INJURY

- Groundwater Supply Depletion
- Groundwater Recharge Interference
- Groundwater Well Capacity Reduction.