

# ***History and Motivations for an Isolated Facility***

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# ***Alternatives Considered***

- ***Some of the alternatives considered include:***
  - ***Physical Barrier.***
  - ***Hydraulic Barrier, the existing system, enhanced.***
  - ***Delta Waterway Control Plan, a “through Delta plan.”***
  - ***Folsom South Canal Enlargement – a new, not yet fully developed, idea, at the time.***
  - ***Peripheral Canal (Isolated Facility).***

***Arnett, C.D.F.G., April 1973***

# ***Isolated Facility***

- ***History***

- ***First formally considered by the U.S. Bureau of Reclamation in 1943.***
- ***Formally included in the Burns-Porter Act authorization in 1964.***
- ***Rejected by the voters in 1982.***

- ***Motivations***

- ***To protect commercial and sport fisheries from the effects of the diversions in the south Delta.***
- ***To conserve water supply, and protect water quality.***
- ***To facilitate construction and operation.***

# *History*

- *First proposed by fisheries biologists conducting studies for the U.S. Fish and Wildlife Service, to evaluate the impacts of the Central Valley Project.*
- *Originally intended to connect the Sacramento River (above Sacramento), to Vernalis, on the San Joaquin River.*

**State of California  
Sacramento-San Joaquin Delta  
Location Map**



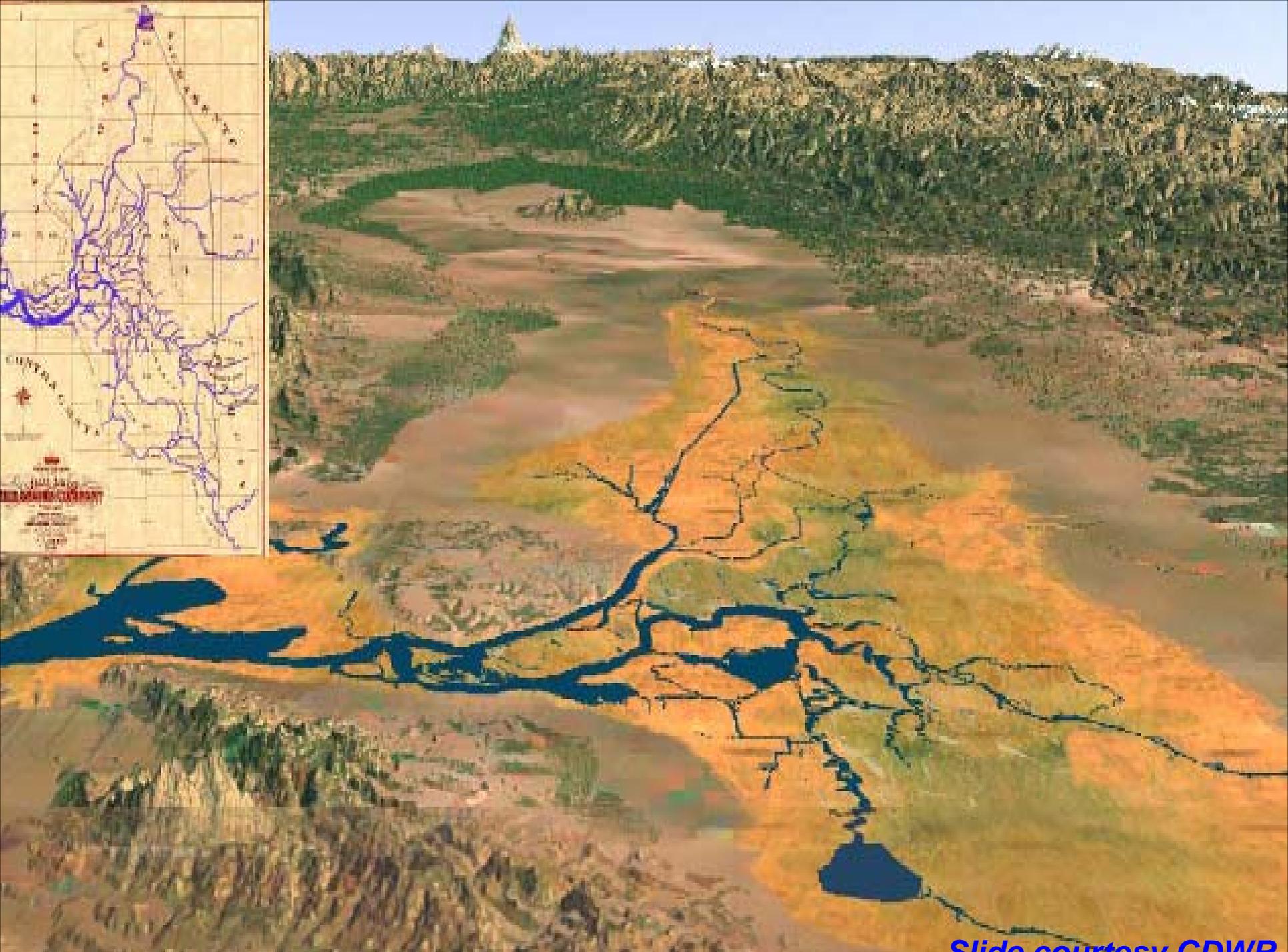
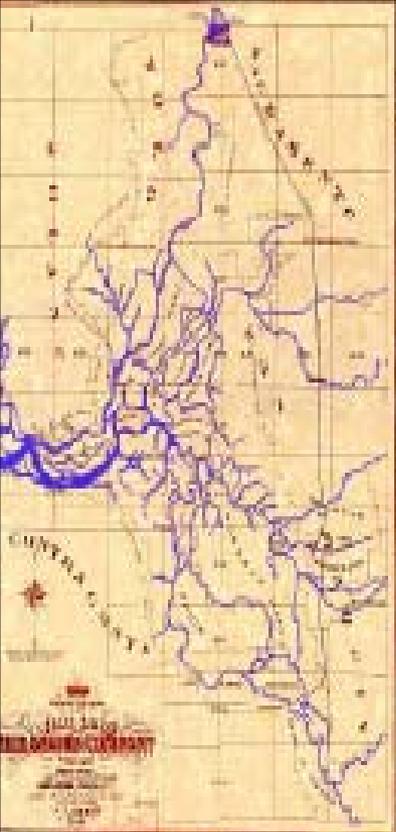
**Sacramento-San Joaquin Delta**

# ***Isolated Conveyance***

- ***Separates the export water from the waters of the Delta.***
- ***Circumvents the Delta (on the east or west side), or could pass through the Delta in a pipeline.***
- ***Could be combined with various other projects. Like a branch to feed the Calaveras River (and the Stockton East Water District) at or near Bellota.***
- ***What are we evaluating today?***
  - ***A 23,000 cfs Peripheral Canal, or***
  - ***A 4,000 cfs Isolated Facility.***
  - ***A canal or a pipeline?***

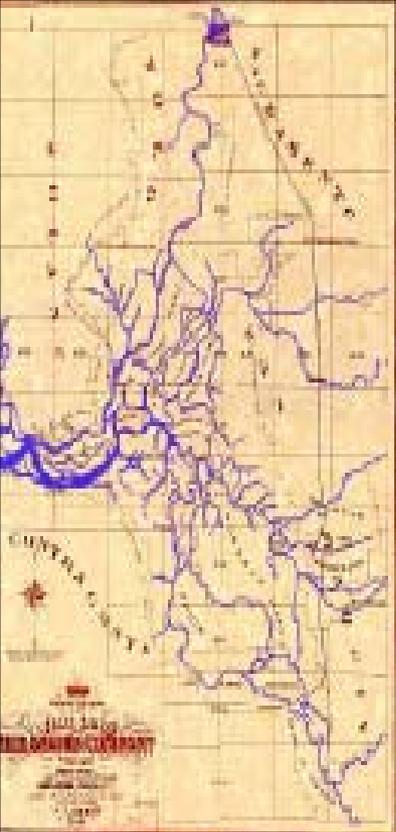
# ***Peripheral Canal (circa 1982)***

- ***Canal from Hood, on the Sacramento River, to the south Delta, CVP and SWP facilities (43 miles).***
- ***Intake capacity 22,800 cfs, delivered a total of 16,800 cfs to Clifton Court Forebay.***
- ***Turnouts along the right of way used to modify (improve) water quality in eastside Delta streams and sloughs.***
- ***Siphons (5) under major stream channels including the San Joaquin River.***



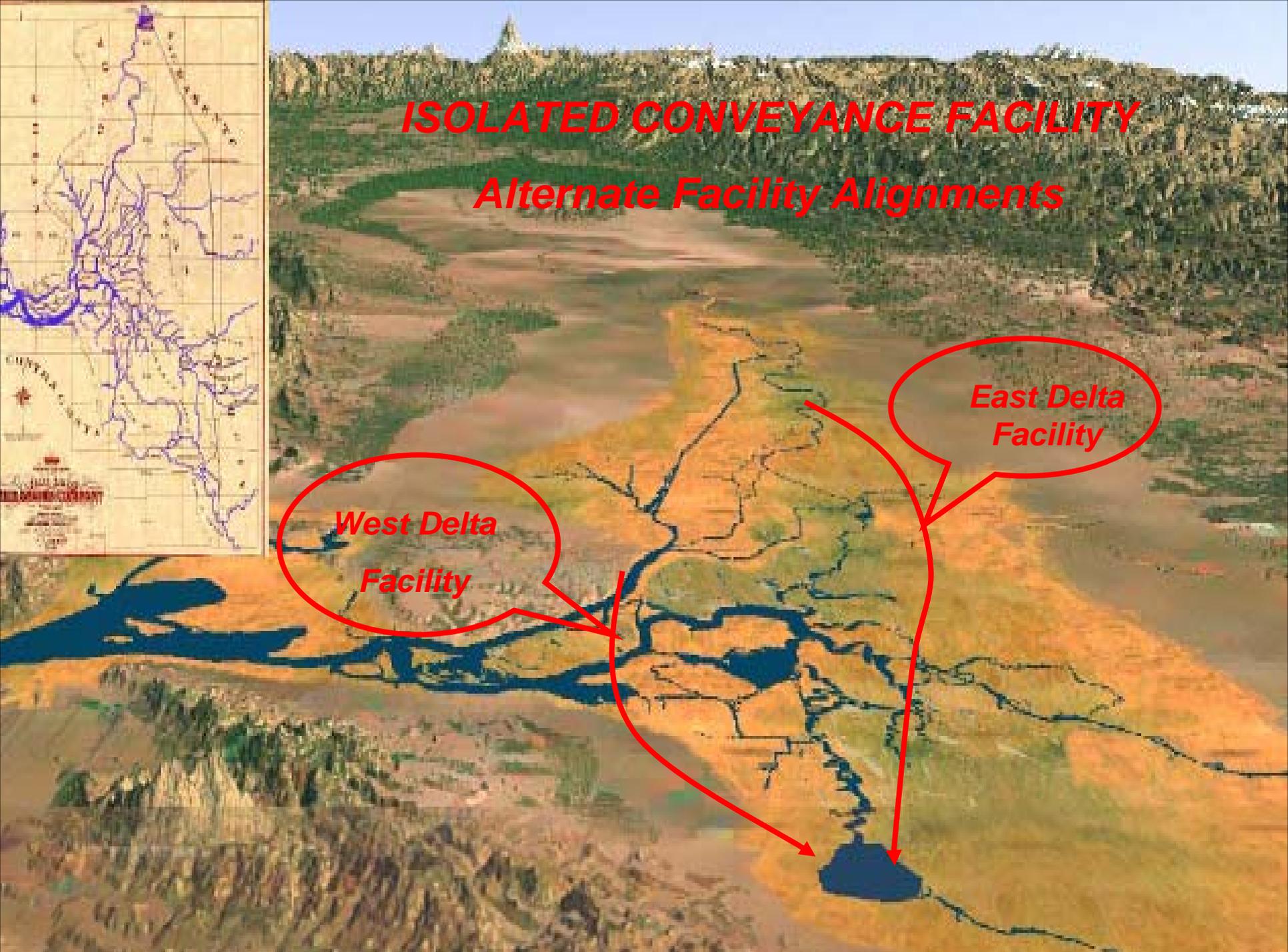
# ***ISOLATED CONVEYANCE FACILITY***

## ***Alternate Facility Alignments***



***West Delta Facility***

***East Delta Facility***



# ***Motivation***

- ***Water conservation (capture carriage water)***
- ***Reliability (avoid the peat soils and subsidence)***
- ***Water quality (deliver high quality water from the Sacramento River)***
- ***Fish and wildlife (restore productivity of the Delta)***
- ***Recreation***
- ***Agriculture***
- ***Municipal and industrial***

*Draft P.C. EIS, U.S.B.R. May 1977*

# ***Motivation***

- ***Restore normal direction of water flow in the Delta***
- ***Restore normal tidal action to the Delta***
- ***Maintain (and where possible, restore) outflow from the Delta***

***Arnett, C.D.F.G., April 1973***

# ***Direction of Water Flow***

- ***Reduce loss of fish eggs and young at diversions***
- ***Restore moderate net flow rates in Delta channels***
- ***Restore positive downstream flows in Delta channels***
- ***Minimize mixing of Sacramento River and San Joaquin River water in the Delta.***

# ***Normal Tide Action***

- ***Restore the long salinity gradient in the Estuary,***
- ***Retain and restore tidal currents in the Delta***

# ***Outflow from the Delta***

- ***Restore suitable salinities in the San Joaquin River for striped bass spawning***
- ***Restore suitable flows in spring and early summer for striped bass survival***
- ***Maintain suitable salinities for Neomysis survival***
- ***Suitable flows for salmon migrations***
- ***Maintain sufficient turbidity***
- ***Maintain soil salinity in the Suisun Marsh***
- ***Flushing of pollutants***

# ***Alternative Selection***

- ***The Peripheral Canal, an Isolated Conveyance alternative, was selected.***
- ***Each of the alternatives could provide some of the desired outcomes.***
- ***The Isolated Conveyance was the most capable alternative.***

# ***The Last 25 Years***

- ***Several efforts to move ahead in the Delta were attempted, unsuccessfully.***
- ***Three additional Isolated Facility iterations were studied:***
  - ***The North Stub, South Stub, and the San Joaquin River siphon configuration.***
  - ***The Rio Vista (West Delta Alignment).***
  - ***The Isleton Canal***
- ***None were developed due to political opposition.***

# ***The CalFed Era***

- ***The Peripheral Canal was set aside in Phase I, but kept as a fallback solution to the Delta issues in Phase II.***
- ***The CalFed Record of Decision speaks to the alternative.***
- ***And here we are today!***



# ***The End, or the Beginning?***

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