



## **Issue 4b**

# **Compliance location at Contra Costa Canal at Pumping Plant #1**

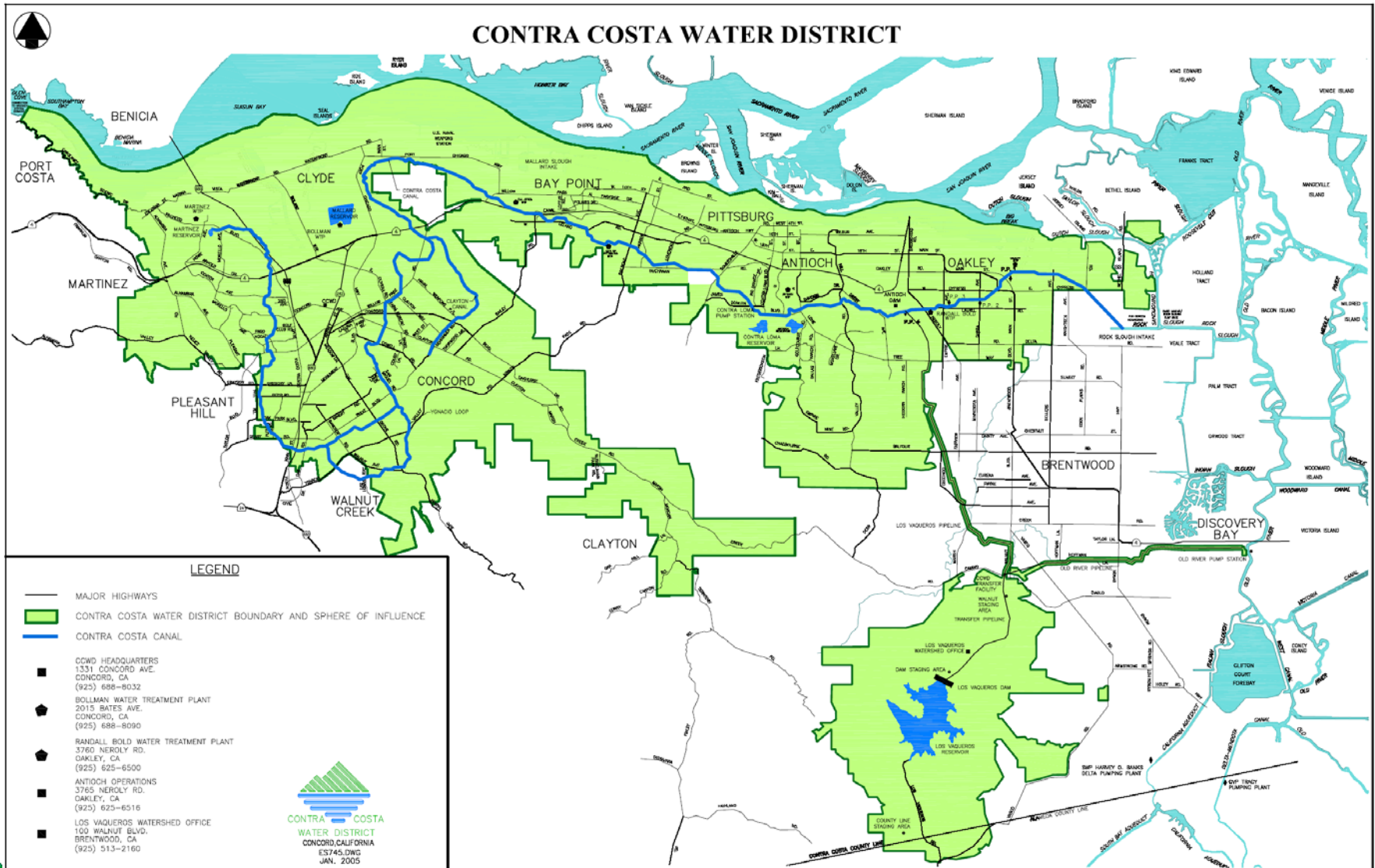
## **- Addressing Local Degradation -**

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Contra Costa Water District**

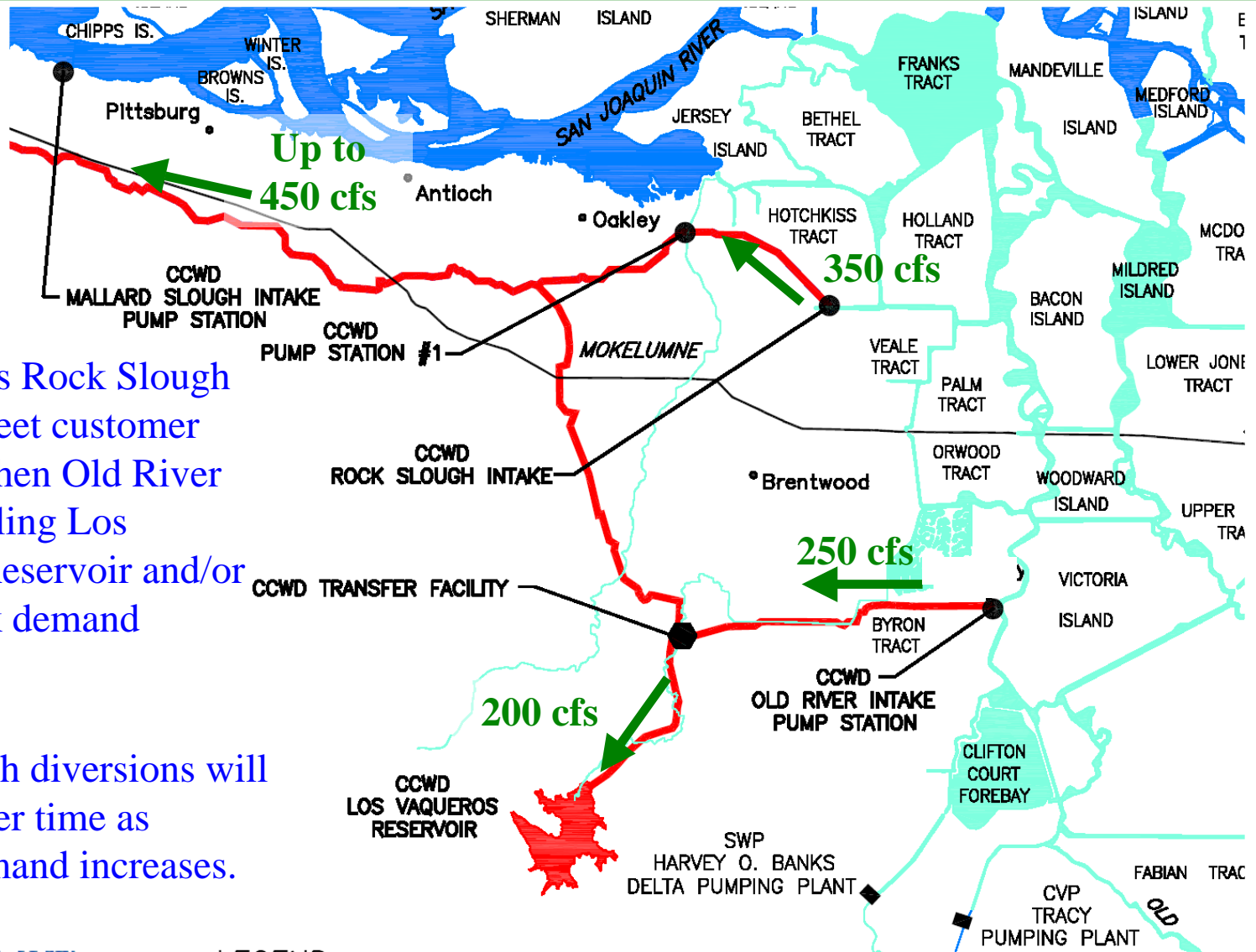


# Contra Costa Water District Service Area



**CONTRA COSTA  
WATER DISTRICT**

# Diversions from Rock Slough are critical to CCWD



CCWD uses Rock Slough Intake to meet customer demands when Old River Intake is filling Los Vaqueros Reservoir and/or during peak demand periods.

Rock Slough diversions will increase over time as CCWD demand increases.



## 1. Diversion rate at PP1 affects local circulation:

In July 1997, CCWD began using the Old River intake which reduced diversions from Rock Slough.

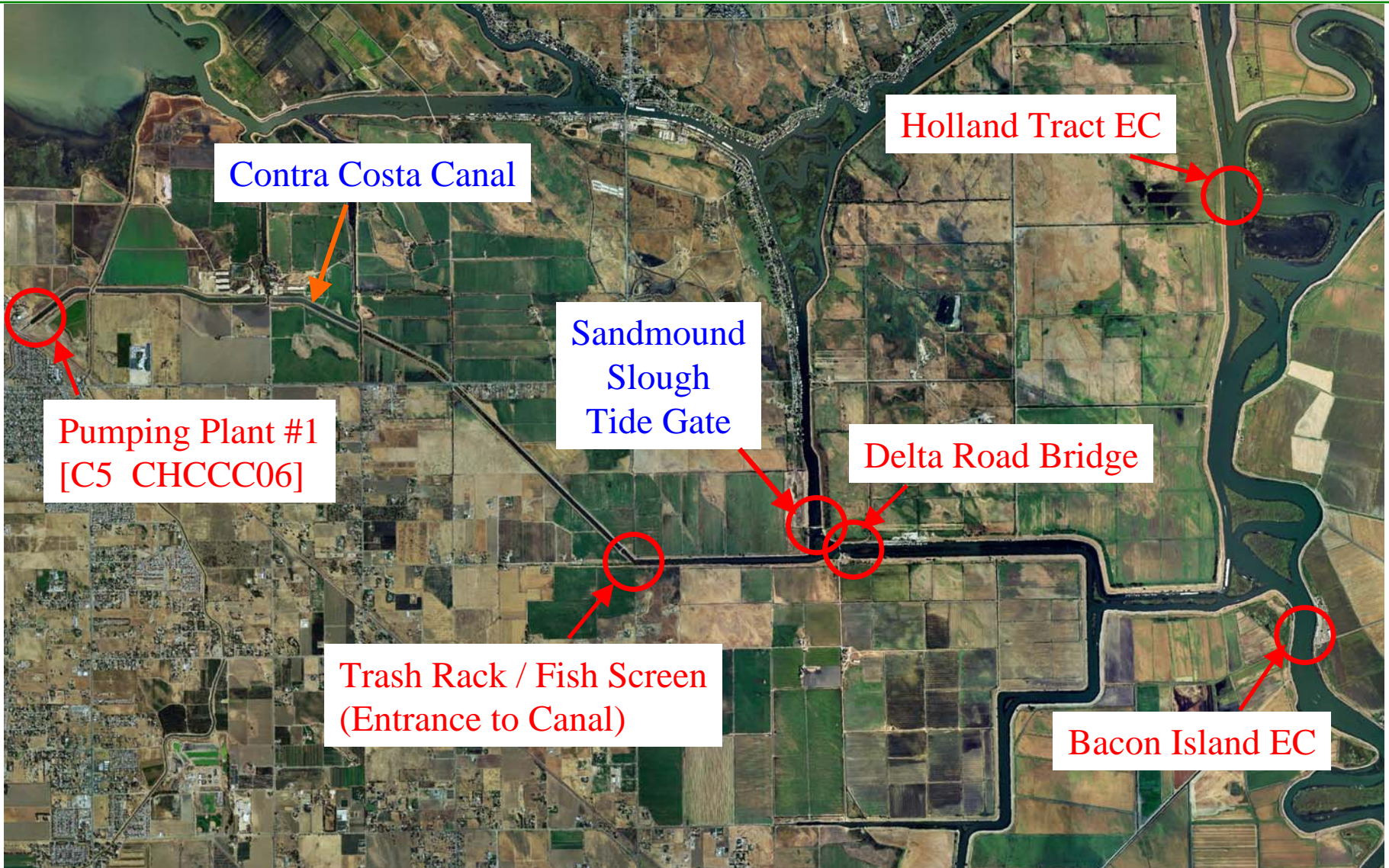
- However, Rock Slough use will increase as CCWD demand increases because diversions from the Old River Pump Station are already maximized.

## 2. Local degradation increases salinity under some conditions:

Monitoring and field investigations in Rock Slough and Contra Costa Canal confirmed Veale Tract drainage and seepage near PP1 are the two major local sources

- CALFED projects will address sources by 2007.

# Rock Slough and Contra Costa Canal



Contra Costa Canal

Holland Tract EC

Sandmound Slough Tide Gate

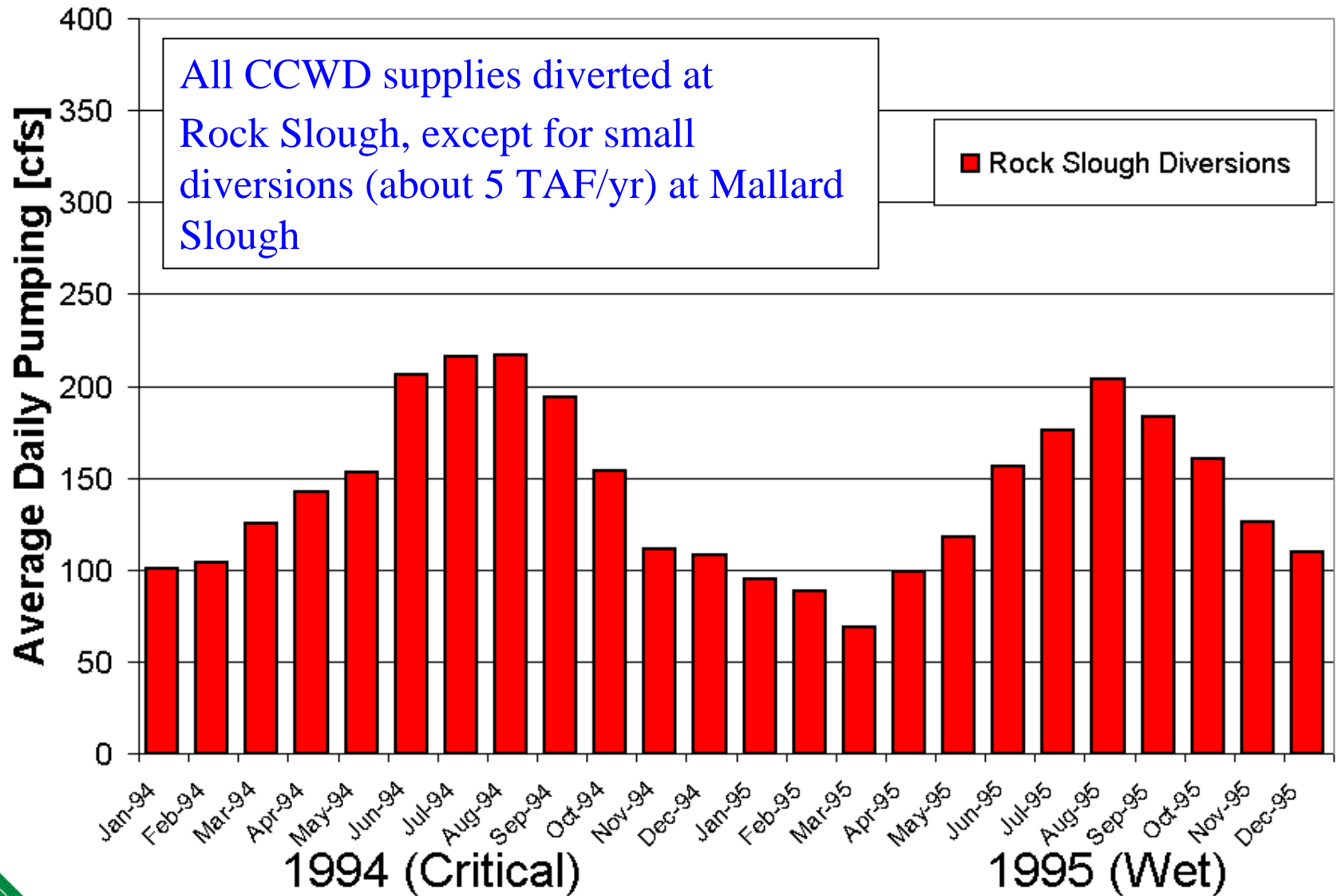
Pumping Plant #1 [C5 CHCCC06]

Delta Road Bridge

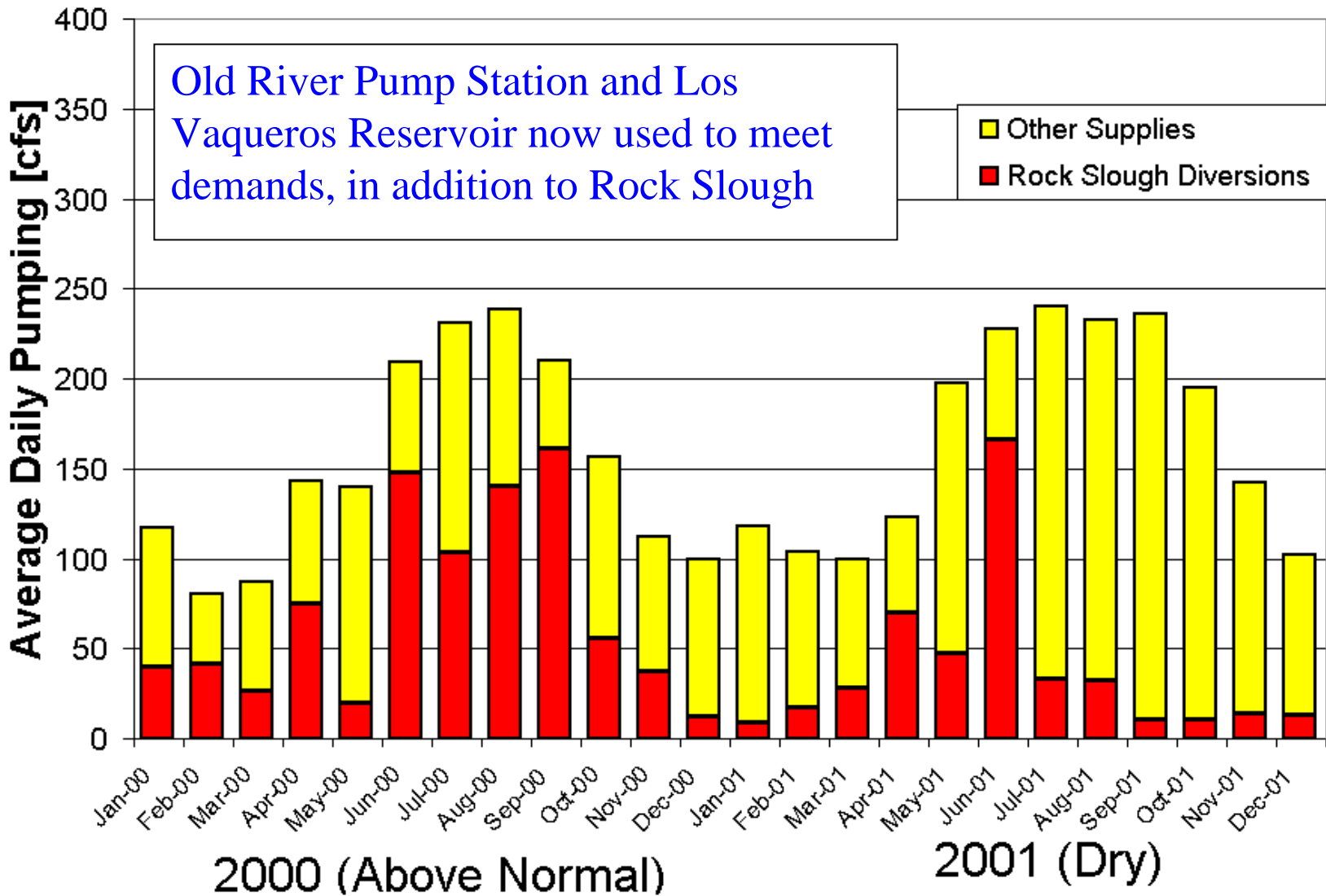
Trash Rack / Fish Screen (Entrance to Canal)

Bacon Island EC

# CCWD operations: Prior to 1997

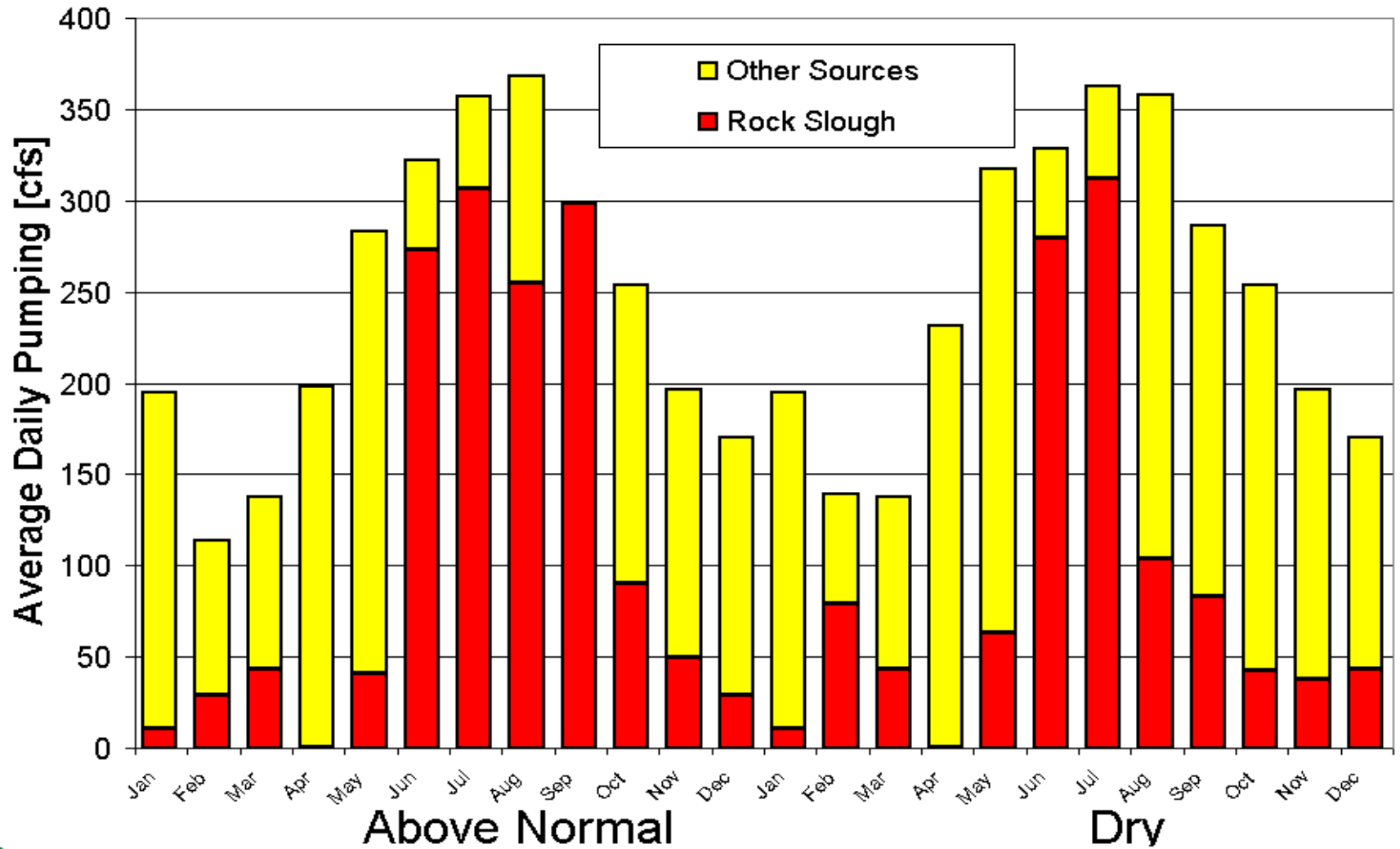


# CCWD operations: 1997 to present



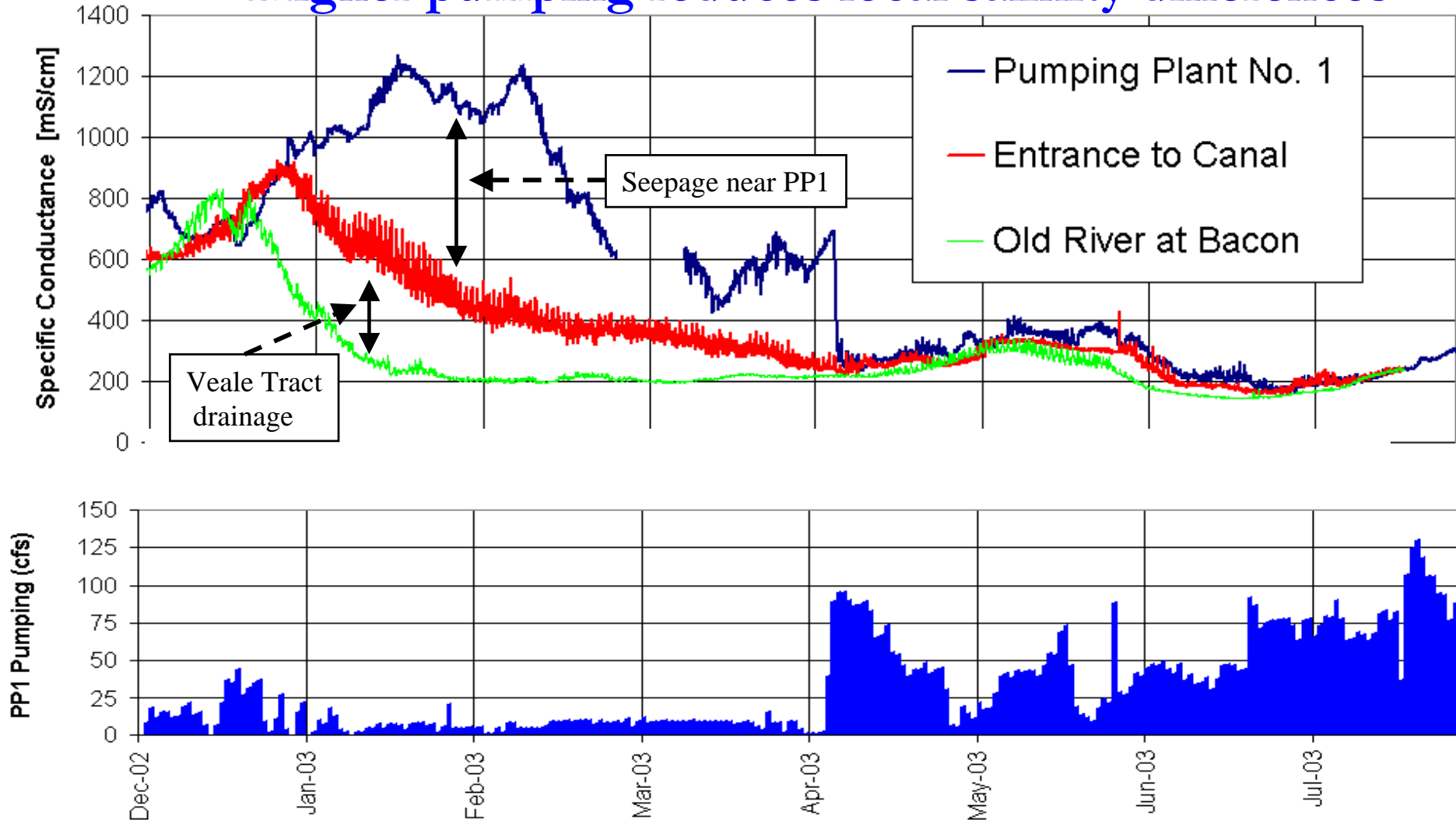


# Future CCWD Operations: 2020 forecast





# Higher pumping reduces local salinity differences





# CALFED Projects provide sustainable solutions

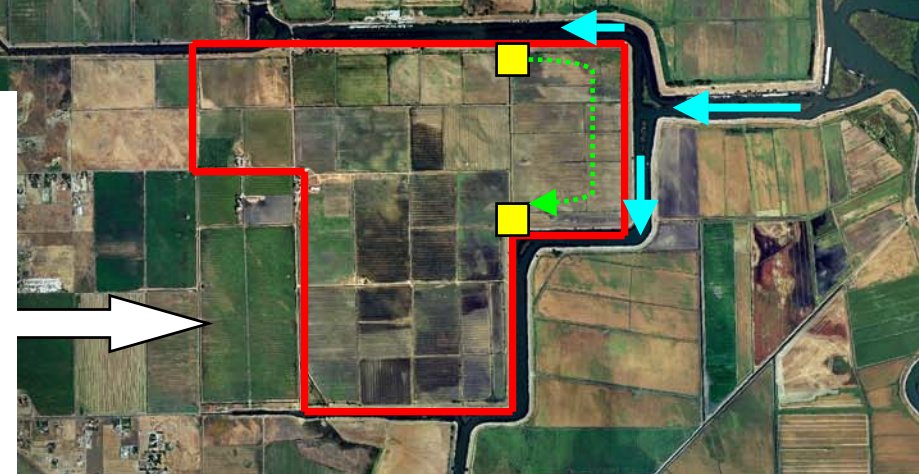
## Canal Improvement Project

Protects CCWD's water supply from groundwater seepage (project will be operational in June 2007)



## Veale Tract Project

Re-locates existing Veale Tract drainage to area with higher flow and more favorable mean current (project will be operational in June 2005)





# Conclusions

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## **Approach suggested by CCWD and DWR is sustainable:**

- No re-directed impacts, no change in protection of beneficial uses;
- Reduces conflicts;
- Reliance on alternative location will likely decrease in future because:
  - ❖ CALFED projects will be on-line in 1-3 years, reducing the two major sources of degradation in Rock Slough and Contra Costa Canal;
  - ❖ CCWD's demand and use of Rock Slough will increase in future. Increased circulation in Rock Slough will reduce need to use alternative compliance location.