

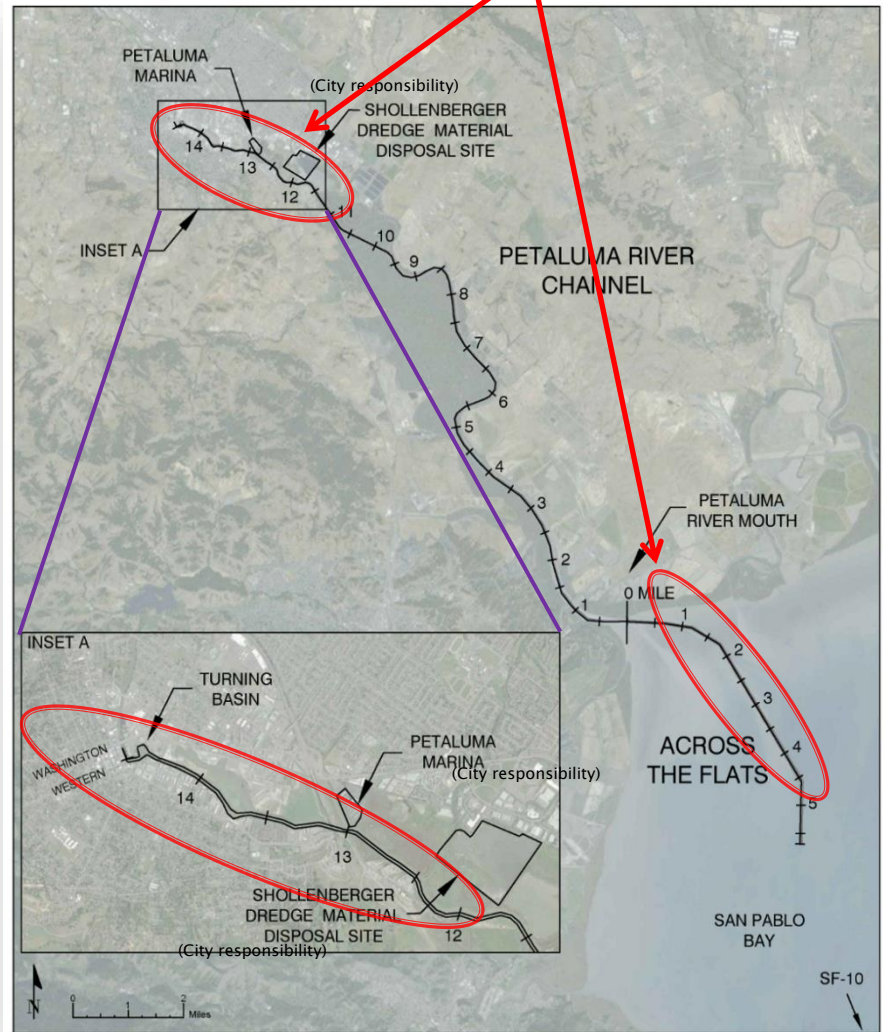
Petaluma River & Turning Basin Dredging Update

October 28, 2020


Dredging of Petaluma River Channel and Turning Basin

- ▶ 10 yr maintenance permits approved in 2020 (CA Fish & Wildlife; BCDC; State Lands; USACE; RWQCB)
- ▶ Feb 2020 City Notified–
 - USACE Receives \$9.5M in FY20 Workplan for Petaluma River Dredging
- ▶ Environmental Permitting Completed Summer 2020
- ▶ Start Date September 5, 2020
Completed October 15, 2020
- ▶ Project Duration 6 weeks!

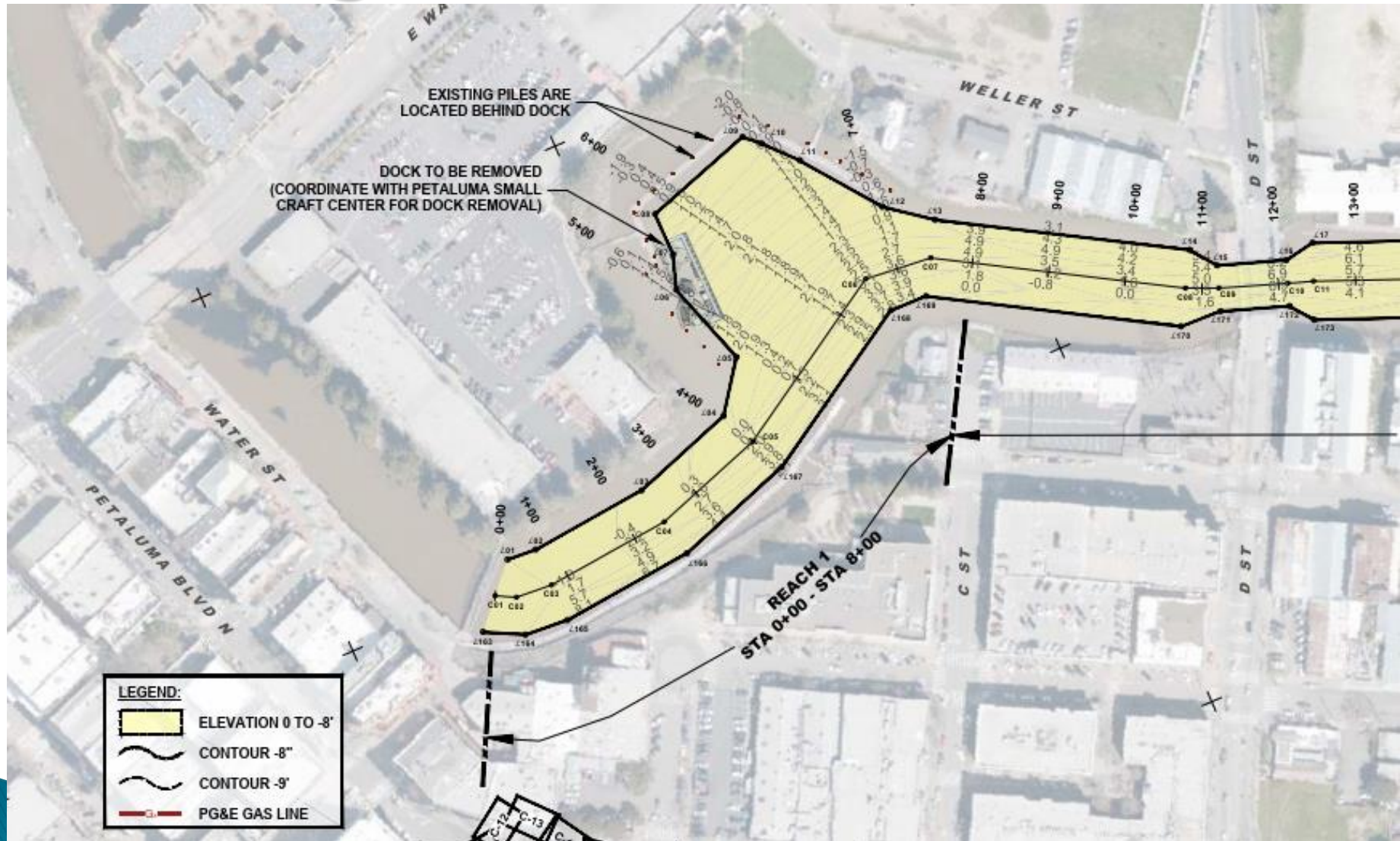
Scope



Pre-Dredge Conditions

- ▶ Last “Full” Dredge: 2003
 - ▶ Emergency Dredge of Turning Basin: 2006
 - ▶ Significant Commercial Tonnage Decrease due to diminished access
 - ▶ Yacht Club & Petaluma Downtown Assoc. cancel multiple annual events: Lighted Boat Parade; Santa Arrival; Memorial Day event...
 - ▶ Increased Siltation Increased Flooding Potential
 - ▶ Significant Financial Impact on the Downtown and City Marina from lost business \$\$
- 

Turning Basin



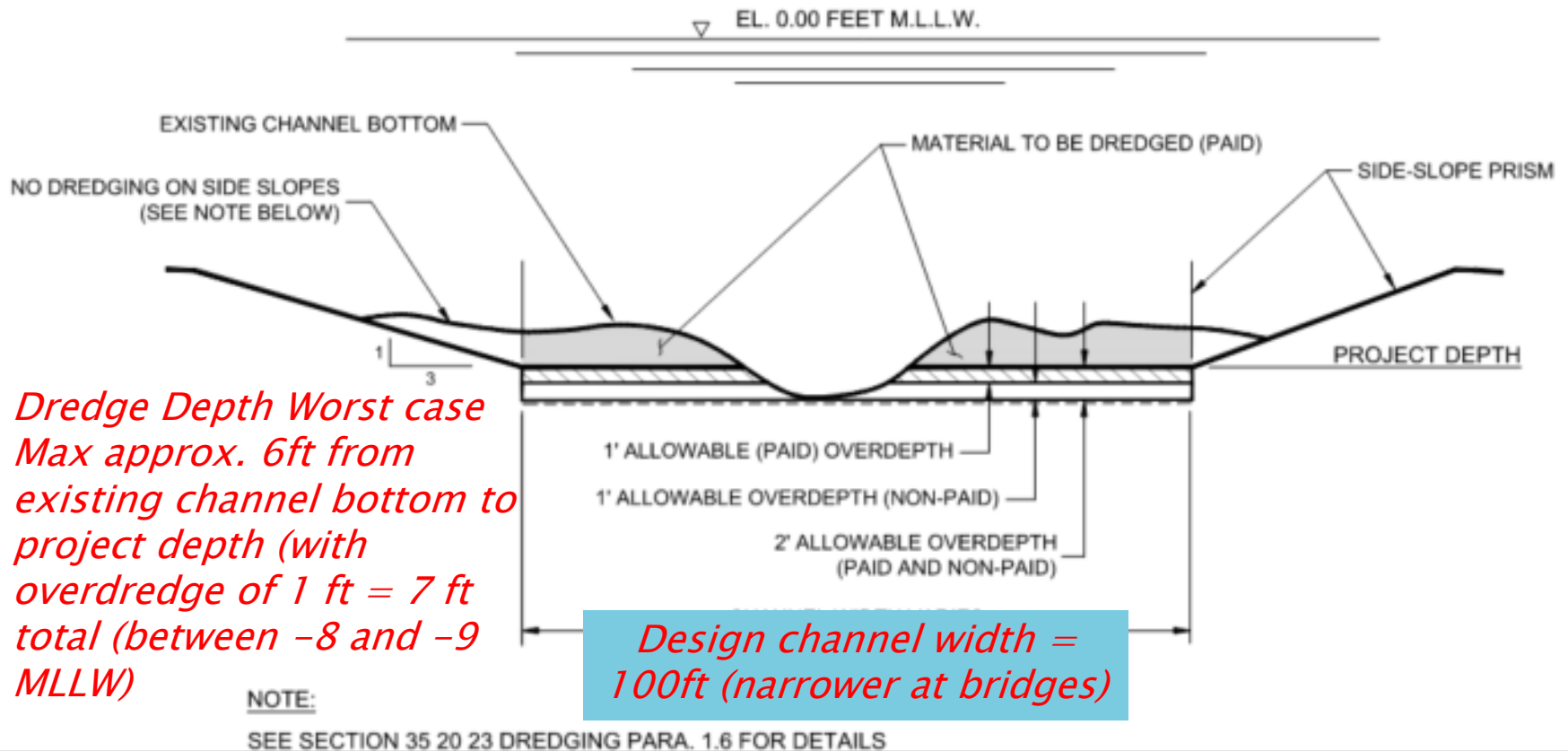
Turning Basin



Sandpiper Cutter Suction Dredge



Dredge Section (typ.)



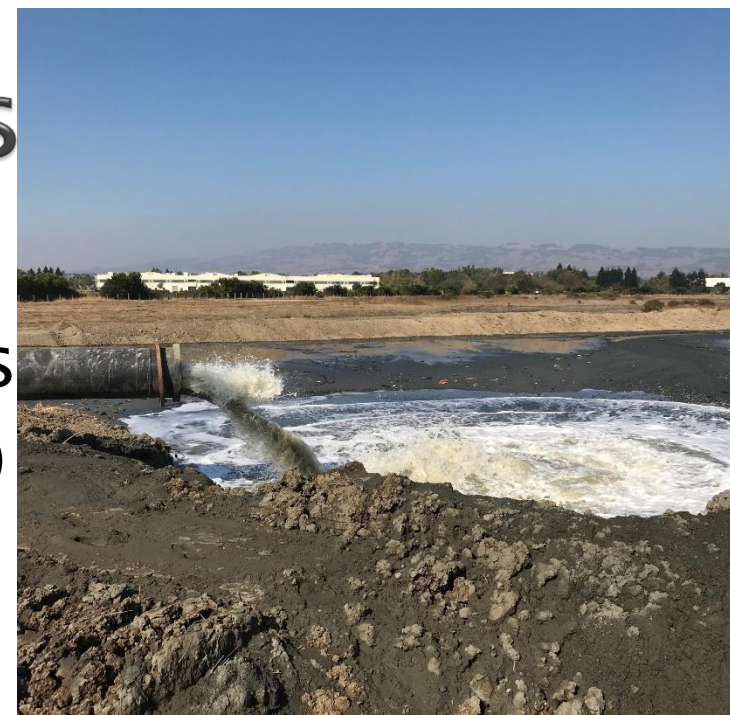
CHALLENGES

- ▶ Problem: Low/Non-existent DO (dissolved Oxygen) levels in the discharge water.
 - Target typ river DO = approx. 5 mg/L
- ▶ Solution: Aerators installed at two weirs (one on east one; on south side of Schollenberger)
- ▶ Debris in the river lengthening the dredge time and creating equipment havoc
- ▶ Solution: D St. Bridge lifted for 11 days to avoid delays

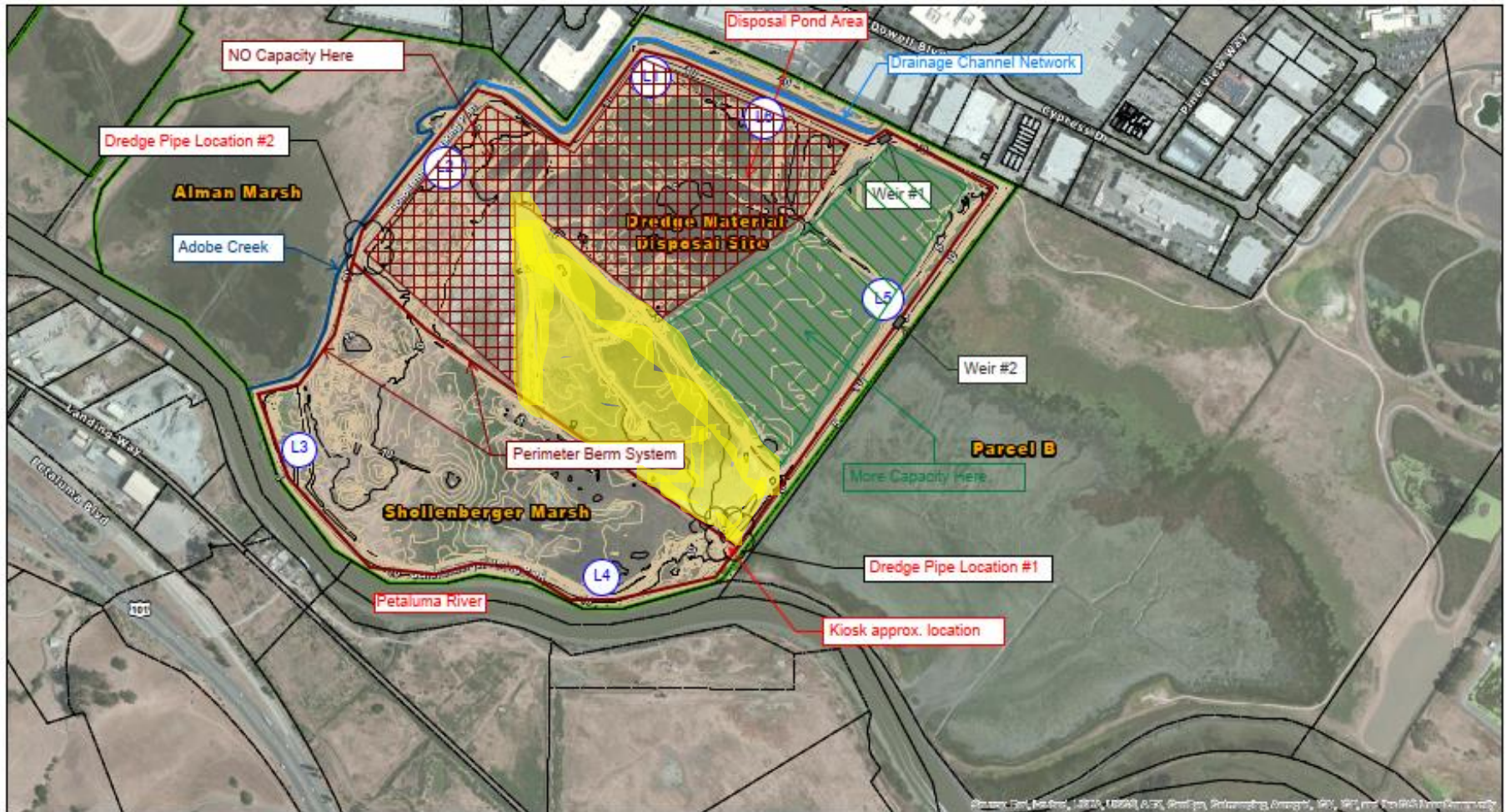


Additional Challenges

- ▶ Safety concerns with trail users
(Solution: Fencing and noticing)
- ▶ Stolen City vehicle
(Solution: Implemented two-person environmental team)
- ▶ PG&E truck sent down levee by dredge pipe
(Solution: Contractor secured pipe)



Shollenberger Spoils Site



Debris

- Shopping Carts
- Bicycle parts
- 6+ bowling balls
- Car Parts
- Tools
- Concrete
- Asphalt cuttings
- Logs
- General trash/debris



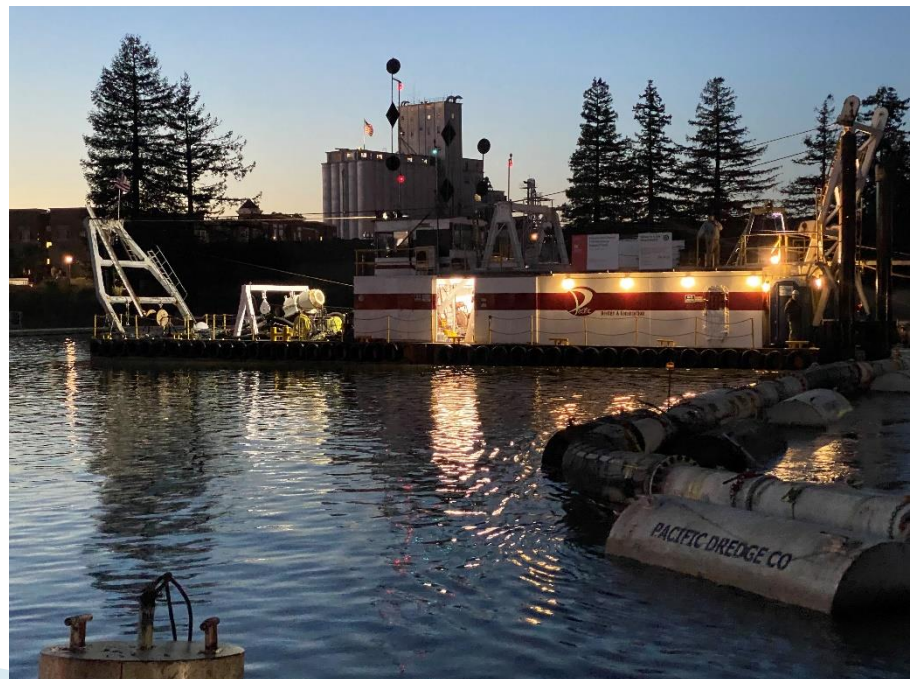
Post Dredge Clean-Up Efforts

Organizing Schollenberger Clean-up workdays with volunteers and stakeholders
Point Blue, Friends of the Petaluma River, Petaluma Wetlands Alliance, Rebuilding Together Petaluma, Daily Acts

DETAILS

- ▶ Bid Volume 147,000 cy
- ▶ Actual: 194,000 cy
- ▶ Contract Award:
\$4,014,410 + CO's

(Award to Pacific Dredge & Construction; all paid by the USACE)



The dredging is complete!

