

Low-Emission Dredging in California Harbors

Practical Experience, Challenges,
and Opportunities

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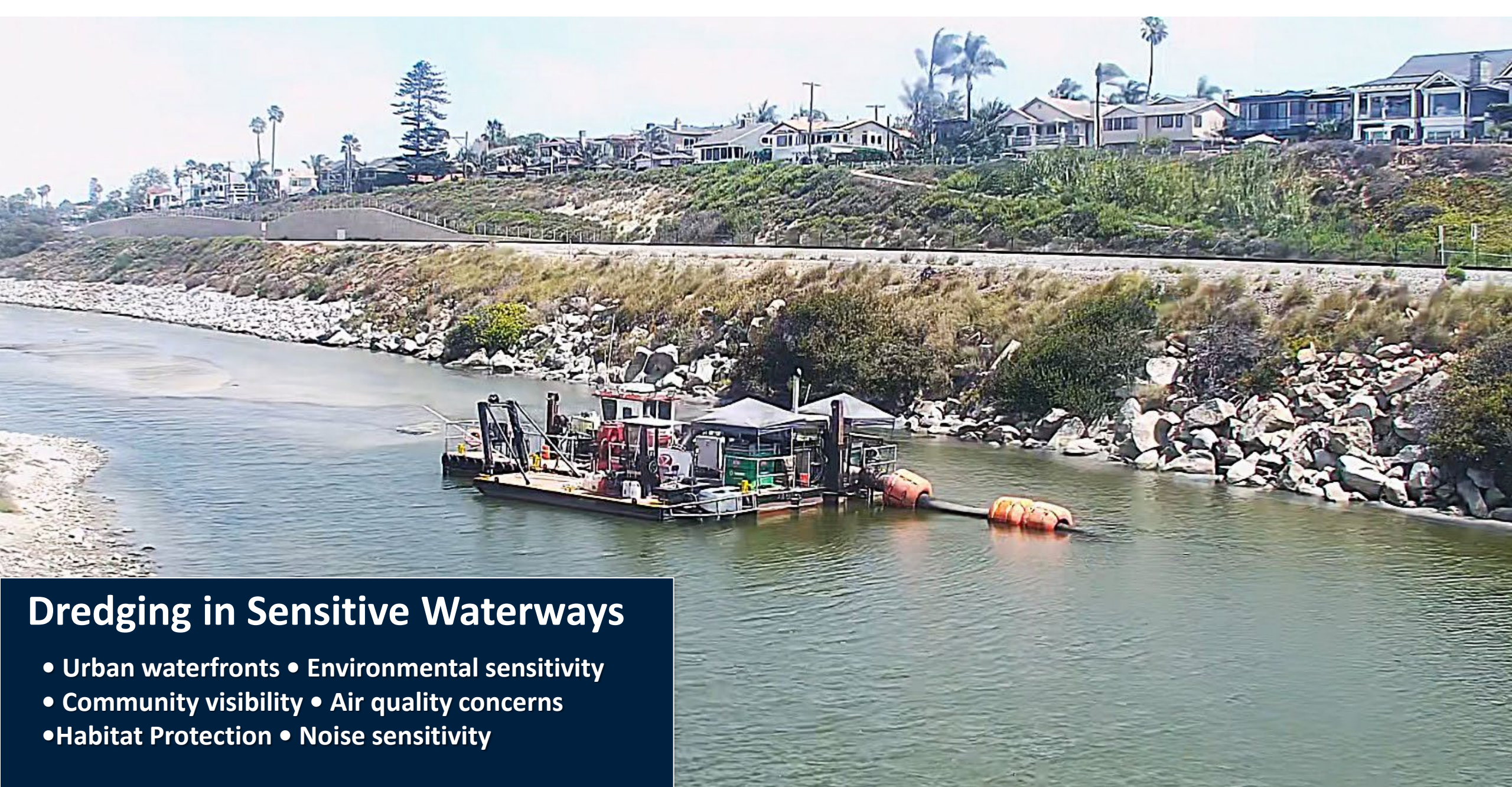
Pacific Dredge & Construction, LLC

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Dredging in Sensitive Waterways

- Urban waterfronts • Environmental sensitivity
- Community visibility • Air quality concerns
- Habitat Protection • Noise sensitivity

PDC Operational Experience

- Harbor maintenance
- Environmental dredging
- Marina dredging
- Hydraulic & mechanical dredging
- Sediment Management
- Port/ Municipal /USACE Projects





Environmental & Low-Impact Dredging Approaches

Controlled Sediment handling • Reduced turbidity operations • Equipment modernization
• Project-specific dredging solutions

Electrically Powered Dredging

- Reduced local emissions • Lower operational noise
- Ideal for fixed harbor environments



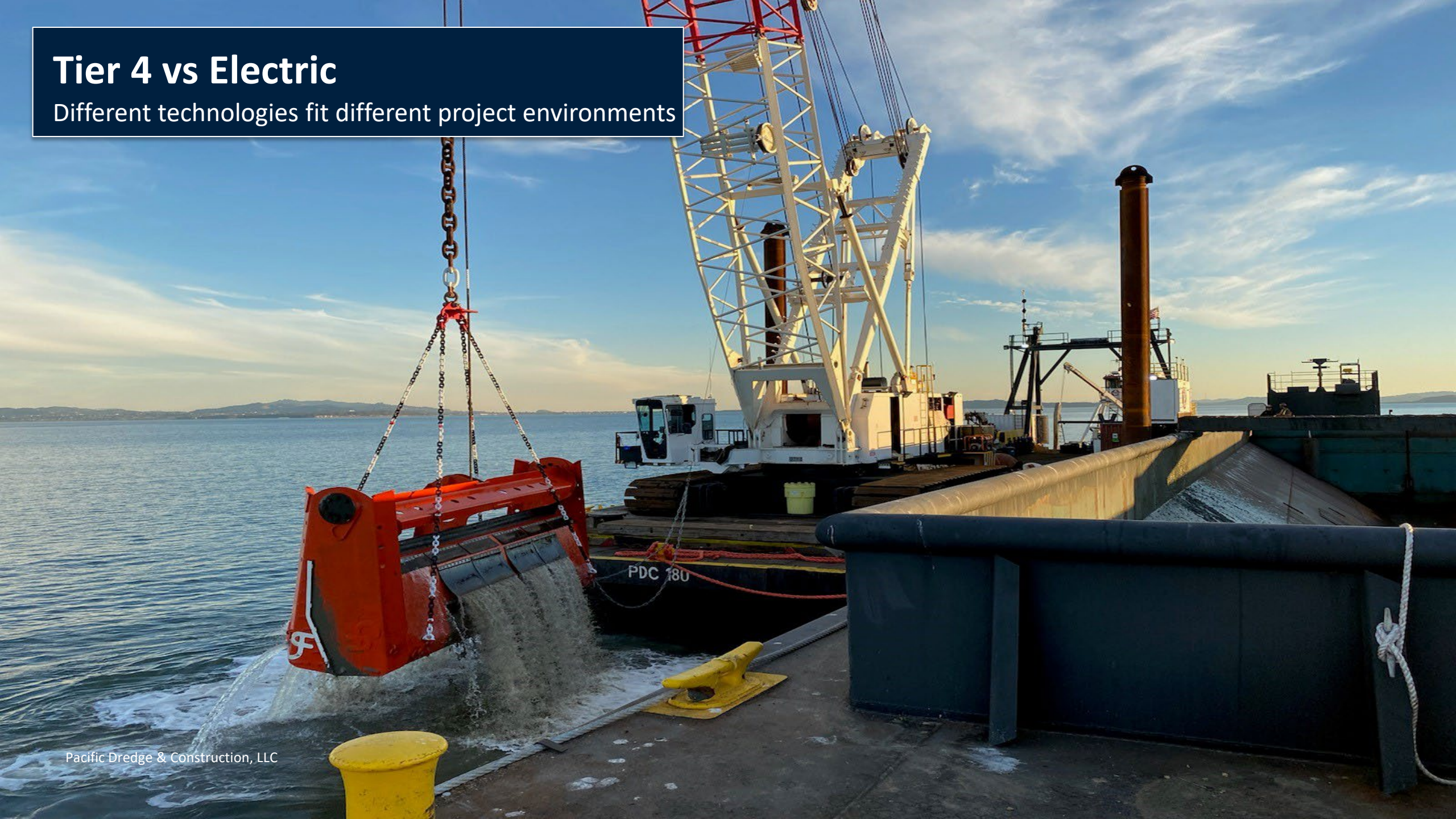


Operational Realities in Sensitive Waterways

- Environmental permitting requirements • Limited work windows • Community visibility
- Equipment access constraints • Sediment handling requirements
- Balancing operational efficiency with environmental protection

Tier 4 vs Electric

Different technologies fit different project environments





Environmental & Community Benefits

- Reduced emissions
- Lower noise
- Better marina compatibility

“Some of the biggest benefits are often realized in highly visible urban waterfront environments.”

What Ports & Agencies Can Do

- Infrastructure investment • Utility coordination
- Realistic timelines • Grant opportunities



Lessons Learned

Low-emission dredging is achievable with planning, flexibility, and collaboration

“The industry is moving toward cleaner dredging operations, but implementation must remain operationally practical and economically achievable.”



Questions

Thank you

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