



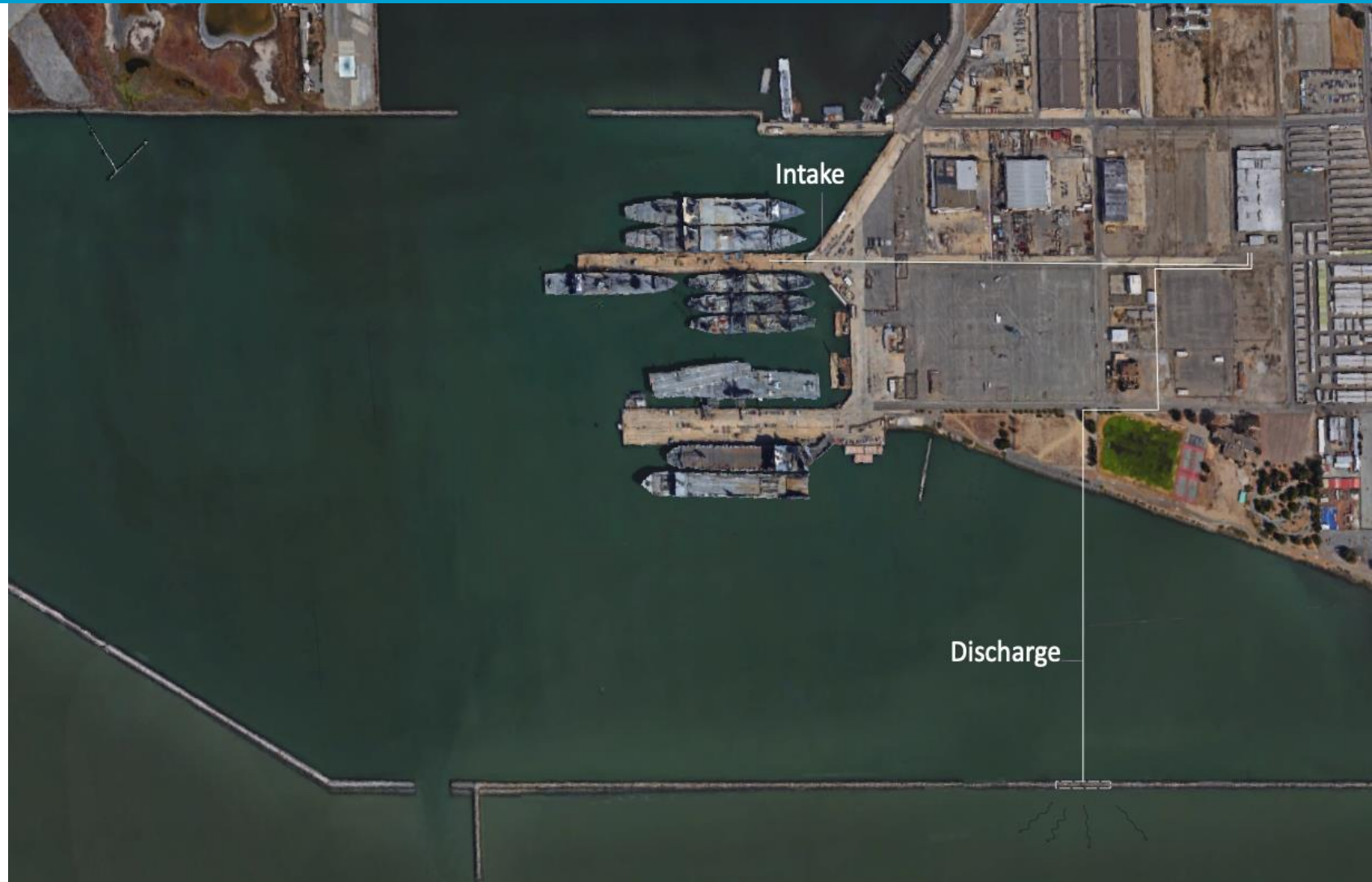
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Alameda City Council Meeting
April 2, 2019

Water Intake/Discharge System
Byron Taylor, Nautilus

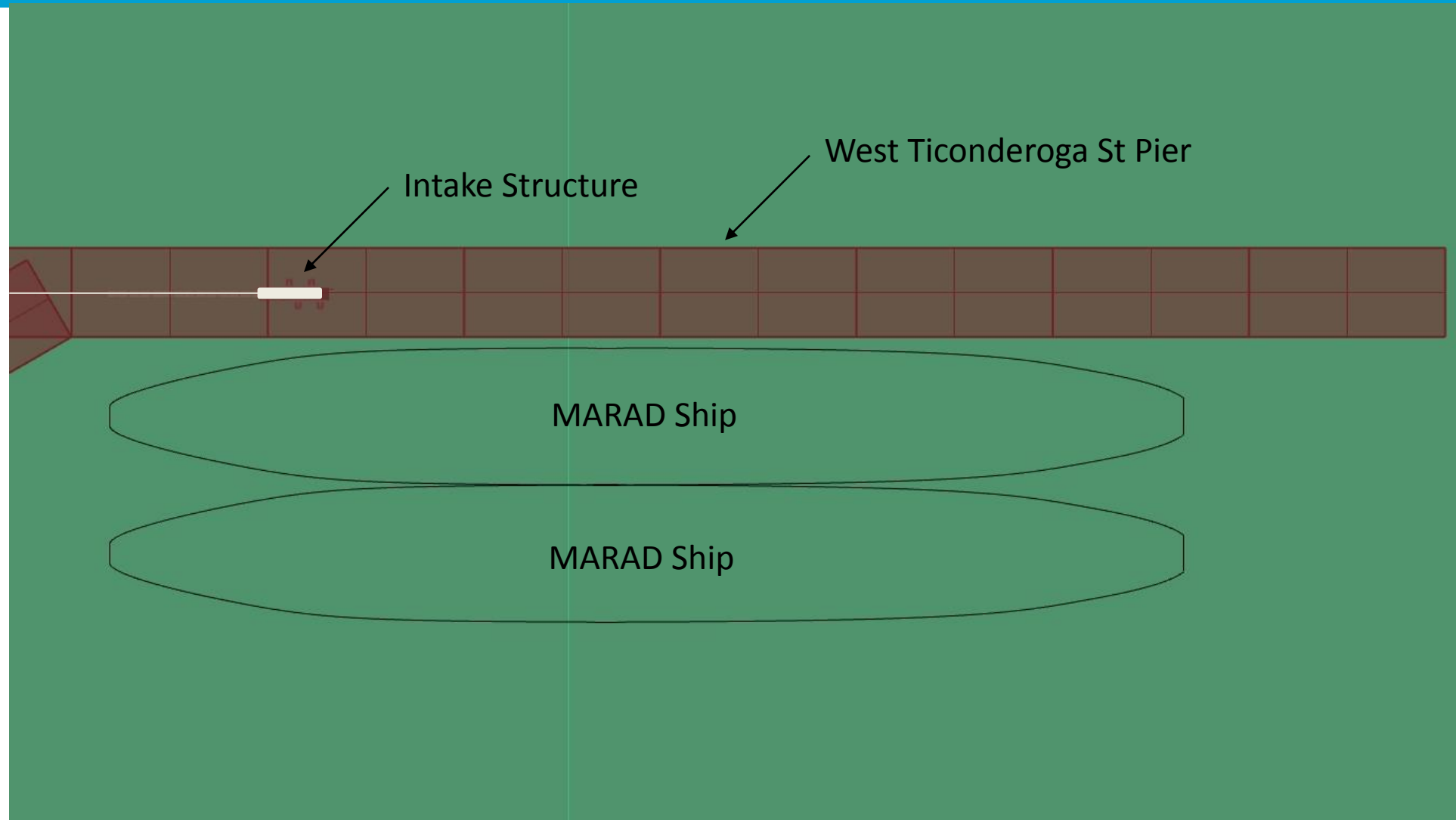
Intake and Discharge Routes

- Open Loop: no consumption of water, same volume in and out
- Intake at Ticonderoga Street Pier
- Underground pipe to and from Building 530; clean (inert) materials
- Underwater pipe on seafloor out to seawall; clean (inert) materials
- Discharge underwater through dispersion system under seawall
- Less than 4-degree change in water temperature at point of discharge; significantly lower beyond that

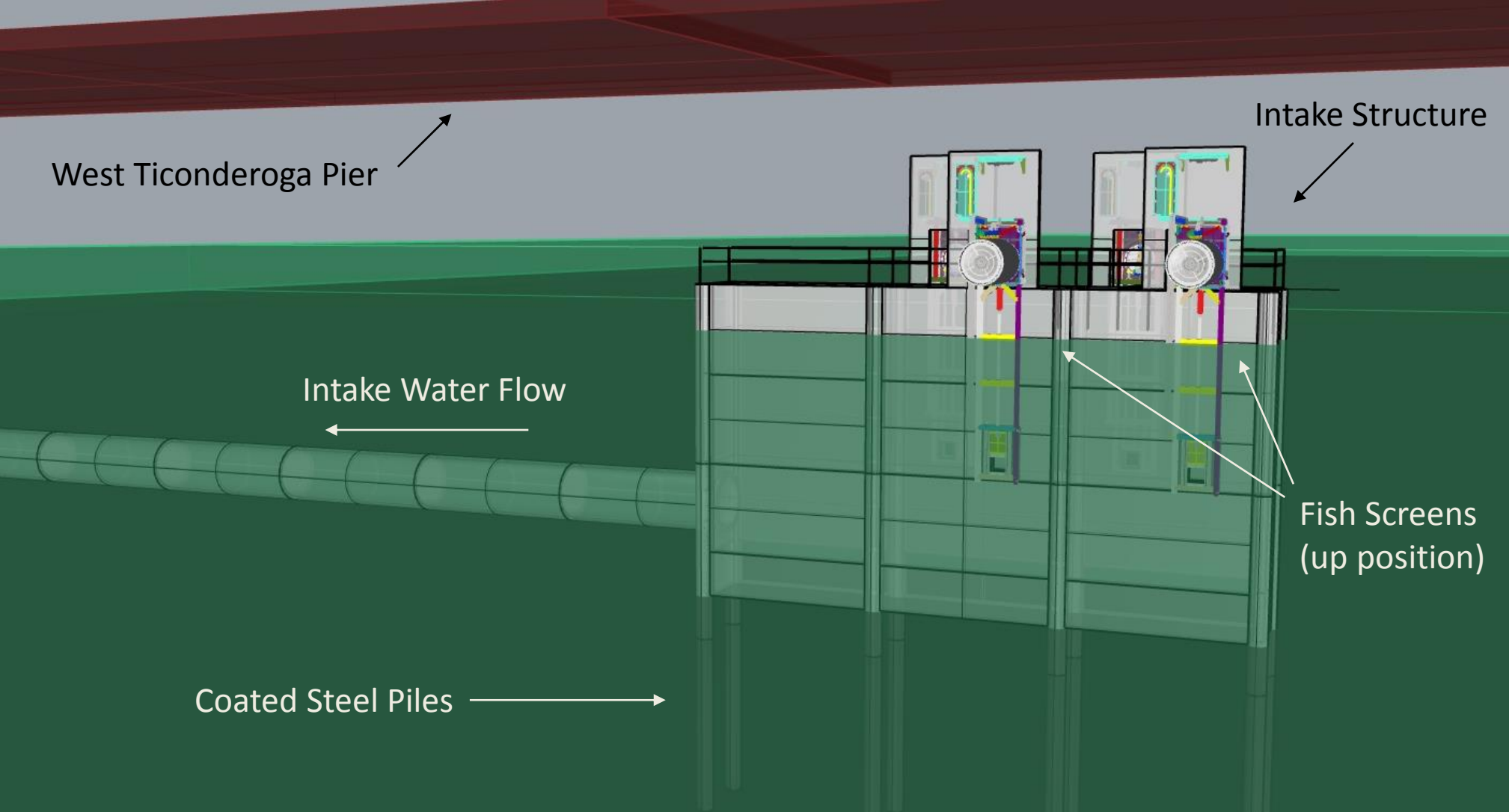


Intake Structure Location: Overhead View

- Underneath wharf
- Below water surface
- Small compared to wharf: 60x6 feet vs 800x80 feet
- Very low flow, fish protective intake screens
- Clean (inert) materials: Clean concrete and stainless steel



Intake Structure Detail: Subsurface Side View





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Permits and Approvals
Katie Chamberlin, Anchor QEA

Permits/Approvals Required for Port of Stockton Project

- ✓ California Environmental Quality Act Compliance (Initial Study/Mitigated Negative Declaration)
- ✓ U.S. Army Corps of Engineers Section 10 Permit
- ✓ Federal ESA Consultations:
 - Concurrence Letter from National Marine Fisheries Service
 - ESA Biological Opinion from U.S. Fish and Wildlife Service
- ✓ Central Valley Regional Water Quality Control Board Water Quality Certification and Industrial NPDES Permit
- ✓ California Department of Fish and Wildlife Section 1600 Approval
- ✓ California State Lands Commission Lease
- P NPDES Construction Stormwater Permit
- P San Joaquin Valley Air Pollution Control District Permit
- P Reclamation District 403
- P Port Development Standard Plan Compliance
- P City of Stockton Building Permits

Permits/Approvals Required for Alameda Project

Anticipated Environmental Permits/Approvals

- California Environmental Quality Act Compliance
- U.S. Army Corps of Engineers Section 10/404 Permit
- Federal ESA/EFH/MMPA Consultations with National Marine Fisheries Service and U.S. Fish and Wildlife Service
- San Francisco Bay Regional Water Quality Control Board Water Quality Certification, Industrial NPDES Permit, and NPDES Construction Stormwater Permit
- California State Lands Commission Lease/Approval
- CESA Consultation with California Department of Fish and Wildlife

Anticipated Additional Permits

- BAAQMD Permit
- City Building and Grading Permits
- Fire and Police Department Approvals



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