

February 19, 2026
Project No: 23-15427

Jessica Rivas
COWI
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**Subject: Berkeley Water Transportation Pier Ferry Project, Alternatives Considered but Rejected,
Berkeley Waterfront, Berkeley, California 94710**

Rincon Consultants, Inc. is providing this memorandum to document information received from COWI regarding project alternatives considered but rejected for the Berkeley Waterfront Transportation Pier Ferry Project. This information was provided by Jessica Rivas, Senior Marine Engineer at COWI, via email correspondence between October 10 and October 13, 2025, in response to Rincon's questions regarding the feasibility of (1) repairing the existing pier in lieu of replacement and (2) a monopile foundation concept.

- **Alternative 1 Considered but Rejected (Pier Repairation).** Ms. Rivas indicated that repairing the existing pier is not feasible due to the advanced deteriorated state of the structure, including widespread concrete spalling that has exposed reinforcing steel, severe reinforcement corrosion, and localized collapse of pier elements. The deterioration is attributed to the age of the structure and high chloride content in the concrete, the latter of which promotes corrosion and spalling, and cannot be removed from the concrete. Based on these conditions, the existing structure has reached the end of its service life, and accordingly, demolition and reconstruction represent the only feasible solution.
- **Alternative 2 Considered but Rejected (Monopile Foundation).** Ms. Rivas indicated that a monopile concept would not reduce the project's environmental footprint or impacts relative to the proposed double-row pile system because seismic demands would necessitate a large-diameter monopile, the cross-sectional area of which exceeds that of two smaller piles (approximately 1,017 square inches compared to 952 square inches combined), and it would also be cost-prohibitive. Accordingly, the monopile alternative would not lessen impacts and is not practicable from an engineering and cost perspective.

Sincerely,
Rincon Consultants, Inc.