3-7 PILE DESIGN DATA FORM (CSL)

1 Foundation Testing

Anomaly Overview
Testing Performed: X GGL X CSL
Shaft Diameter: 8 ft
Cutoff Elev: -29 ft

A

Section A-A
Elev.: -32 to -34 ft
Up to 9 % Affected

B

Section B-B
Elev.: -65 to -67 ft
Up to 8 % Affected

Tip Elev.: -113 ft

Anomaly Description
Section A-A: Anomaly was detected in one (1) GGL inspection pipe and four (4) CSL pipe pairs. May affect up to 9% of Shaft cross-section at this location.

Section B-B: Anomalies were detected in two (2) GGL inspection pipes and three (3) CSL pipe pairs. May affect up to 8% of Shaft cross-section at this location.

2 Geotechnical

Required Nominal Resistance of Shaft (per contract plans)
Compression: ______ kips Tension: ______ kips
Lowest Estimated Groundwater Elevation: ______

Remaining Required Nominal Resistance To Be Developed Below Each Anomalous Section:
Section A-A: Compression: ______ Tension: ______ kips
Soil and/or Rock Type: ______
Shaft is geotechnically Acceptable Unacceptable
Section A-A: Compression: ______ Tension: ______ kips
Soil and/or Rock Type: ______
Shaft is geotechnically Acceptable Unacceptable

Comments: ____________________________

3 Structural

As-Designed Capacity of Shaft
Section A-A: Shear: 1355 kips Moment: 23224 kip-ft
Section B-B: Shear: 1355 kips Moment: 23224 kip-ft

Maximum Demand of Shaft at Section A-A
Shear: ______ kips Moment: ______ kip-ft
Shaft is structurally Acceptable X Unacceptable

Maximum Demand of Shaft at Section B-B
Shear: ______ kips Moment: ______ kip-ft
Shaft is structurally X Acceptable Unacceptable

Comments: ____________________________

4 Corrosion

Consideration is □ Required □ Not required

For anomalies between the top of pile and 3 feet below the lowest estimated ground water level at the site, corrosion results listed in the Geotechnical report are used to assess the need for repair. For situations where results are not available, soil samples may be obtained adjacent to the anomaly and tested in accordance with California Test (CT) 643 (Parts 2, 3 and 4) and if necessary, CT 417 and CT 422 to determine soil corrosivity. For anomalies outside these limits, and where no stray current source can be identified, or for non-corrosive soil conditions, no consideration of corrosion potential is required.

Corrosion Potential at Section A-A: ______
Corrosion Potential at Section B-B: ______

5 Construction

Considering parts 2-4 of this form, Structure Rep.: SC

Sec. A-A is: □ Acceptable with Administrative Deduction □ Unacceptable, Mitigation is Required
Sec. B-B is: □ Acceptable with Administrative Deduction □ Unacceptable, Mitigation is Required

Bridge: Bridge No.: Abt./Bent:
Dist-Co.-Route: EA: Pile:
Structure Rep.: Phone: Fax: