

# **APPENDIX E**

**UPDATE TO THE GEOTECHNICAL EVALUATION**  
Christian Wheeler Engineering, May 27, 2008

**PRELIMINARY GEOTECHNICAL EVALUATION**  
**PROPOSED INDUSTRIAL PARK**  
Christian Wheeler Engineering, January 21, 2005



**UPDATE TO THE GEOTECHNICAL EVALUATION**  
**Christian Wheeler Engineering, May 27, 2008**





CHRISTIAN WHEELER  
ENGINEERING

May 27, 2008

Legacy Building Services, Inc.  
2905 Congress Street  
San Diego, California 92110

CWE 2080349.02

Attention: Gary Watts

**SUBJECT: SEISMIC DESIGN PARAMETERS, PROPOSED FORRESTER CREEK INDUSTRIAL PARK, WELD BOULEVARD AND CUYAMACA STREET, EL CAJON, CALIFORNIA.**

Reference: Report of Preliminary Geotechnical Investigation, Proposed Industrial Park, Weld Boulevard and Cuyamaca Street, El Cajon, California, *prepared by* Christian Wheeler Engineering, *dated* January 21, 2005.

Ladies and Gentlemen:

In accordance with your request, we have prepared this letter to present revised seismic design parameters for the proposed development. The following seismic design parameters are based on the California Building Code (CBC) 2007 edition, Chapter 16.

**CBC 2007 EDITION – SEISMIC DESIGN PARAMETERS**

CBC – Chapter 16 Section	Seismic Design Parameter	Recommended Value
Table 1613.5.2	Soil Profile Type	C
Figure 1613.5 (3)	Mapped Spectral Acceleration for Short Periods (0.2 sec), $S_s$	0.981 g
Figure 1613.5 (4)	Mapped Spectral Acceleration for 1.0 Sec Periods (1.0 sec), $S_1$	0.347 g
Table 1613.5.3 (1)	Site Coefficient, $F_a$	1.008
Table 1613.5.3 (2)	Site Coefficient, $F_v$	1.453
Section 1613.5.3	$S_{MS}$ = MCE Spectral Response at 0.2 sec. = $(S_s)/F_v$	0.988 g
Section 1613.5.3	$S_{M1}$ = MCE Spectral Response at 1.0 sec. = $(S_1)/F_v$	0.504 g
Section 1613.5.4	$S_{S0.2}$ = Design Spectral Response at 0.2 sec. = $2/3(S_{MS})$	0.658 g
Section 1613.5.4	$S_{S1.0}$ = Design Spectral Response at 1.0 sec. = $2/3(S_{M1})$	0.336 g

If you have any questions after reviewing this report, please do not hesitate to contact our office.  
This opportunity to be of professional service is sincerely appreciated.

Respectfully submitted,

CHRISTIAN WHEELER ENGINEERING



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