

APPENDIX C2

**Review of Updated Traffic Volumes
and Associate Noise Levels for the
Fiddymment Ranch Environmental
Noise Assessment, j.c brennan &
associates, 2013**



P.O. Box 6748 • Auburn, California 95604
1287 High Street • Auburn, California 95603
p.530.823.0960 • f.530.823.0961 • www.jcbrennanassoc.com

July 24, 2013

Ms. Katherine Waugh
DUDEK
853 Lincoln Way, Suite 208
Auburn, CA 95603

Subject: Review of Updated Traffic Volumes and Associated Noise Levels for the Fiddymment Ranch EIR Environmental Noise Assessment

Dear Ms. Waugh:

Previously j.c. brennan & associates, Inc. conducted an Environmental Noise Assessment for the Fiddymment Ranch EIR, in Roseville, California (*Environmental Noise Assessment, Fiddymment Ranch EIR, Roseville, California, Prepared for: Northfork Associates, Prepared by: j.c. brennan & associates, Inc., Job # 2010-121, September 15, 2011*).

As a part of that analysis, noise impacts associated with roadway traffic was assessed. Since the preparation of the Environmental Noise Assessment, the existing and existing plus project traffic volumes have changed. At the request of DUDEK, we have been requested to evaluate whether the revised traffic volumes will affect the results of the traffic noise assessment in the report.

Revised traffic volumes have been provided by DKS Traffic Consultants. j.c. brennan & associates, Inc., has reviewed the revised traffic volume data and has determined that the revised volumes do not vary by more than 10%. A 10% change in traffic volumes results in less than a 0.5 dB change in traffic noise. j.c. brennan & associates, Inc. utilized the Federal Highway Administration (FHWA RD77-108) Traffic Noise Model for the traffic noise assessment. The tolerance factors of the model are generally within 1 dB. Therefore, any changes of 0.5 dB would not seem significant with respect to the validity of the traffic noise model.

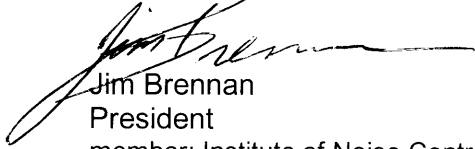
Generally, humans respond to changes in noise levels depending upon the relative increase or decrease in noise. A 3 dB change in noise levels is considered to be barely perceptible to the human ear. A minimum change in noise levels of 1.5 dB must occur before it is perceptible to the human ear.

Therefore, we have concluded that the revised traffic volumes will not affect the overall analysis of traffic noise levels for the Fiddymment Ranch EIR.

If you have questions, please contact me at 530-823-0960, or at
jbrennan@jcbrennanassoc.com.

Respectfully submitted,

j.c. brennan & associates, Inc.

A handwritten signature in black ink, appearing to read "Jim Brennan", is written over the printed name.

Jim Brennan

President

member: Institute of Noise Control Engineering

file: 2013-162 Fiddymment Ranch Traffic Noise Assessment Memorandum