

Appendix D

Noise Mitigations Analysis Memo



September 29, 2017

Elizabeth Boyd, AICP
Ascent Environmental
455 Capitol Mall, Suite 300
Sacramento, CA 95814

Subject: Review of Noise Mitigation for the Russell Ranch Project Entitlements

Dear Ms. Boyd,

j.c. brennan & associates, Inc. has reviewed the mitigation measures contained in the Russell Ranch EIR, as they apply to Phases 3 and 4. The format of this letter / review will be to quote each mitigation measure and provide any supplemental mitigation measures, or provide a discussion on the mitigation.

Impact 4.6-1 - Mitigation Measure 3A.11-1: Implement Noise-Reducing Construction Practices, Prepare and Implement a Noise Control Plan, and Monitor and Record Construction Noise near Sensitive Receptors.

To reduce impacts associated with noise generated during project related construction activities, the project applicant(s) and their primary contractors for engineering design and construction of all project phases shall ensure that the following requirements are implemented at each work site in any year of project construction to avoid and minimize construction noise effects on sensitive receptors. The project applicant(s) and primary construction contractor(s) shall employ noise-reducing construction practices. Measures that shall be used to limit noise shall include the measures listed below:

- ▶ Noise-generating construction operations shall be limited to the hours between 7 a.m. and 7 p.m. Monday through Friday, and between 8 a.m. and 6 p.m. on Saturdays and Sundays.
- ▶ All construction equipment and equipment staging areas shall be located as far as possible from nearby noise-sensitive land uses.
- ▶ All construction equipment shall be properly maintained and equipped with noise-reduction intake and exhaust mufflers and engine shrouds, in accordance with manufacturers' recommendations. Equipment engine shrouds shall be closed during equipment operation.
- ▶ All motorized construction equipment shall be shut down when not in use to prevent idling.
- ▶ Individual operations and techniques shall be replaced with quieter procedures (e.g., using welding instead of riveting, mixing concrete offsite instead of on-site).

- ▶ Noise-reducing enclosures shall be used around stationary noise-generating equipment (e.g., compressors and generators) as planned phases are built out and future noise sensitive receptors are located within close proximity to future construction activities.
- ▶ Written notification of construction activities shall be provided to all noise-sensitive receptors located within 850 feet of construction activities. Notification shall include anticipated dates and hours during which construction activities are anticipated to occur and contact information, including a daytime telephone number, for the project representative to be contacted in the event that noise levels are deemed excessive. Recommendations to assist noise-sensitive land uses in reducing interior noise levels (e.g., closing windows and doors) shall also be included in the notification.
- ▶ To the extent feasible, acoustic barriers (e.g., lead curtains, sound barriers) shall be constructed to reduce construction-generated noise levels at affected noise-sensitive land uses. The barriers shall be designed to obstruct the line of sight between the noise-sensitive land use and on-site construction equipment. When installed properly, acoustic barriers can reduce construction noise levels by approximately 8–10 dB (EPA 1971).
- ▶ When future noise sensitive uses are within close proximity to prolonged construction noise, noise-attenuating buffers such as structures, truck trailers, or soil piles shall be located between noise sources and future residences to shield sensitive receptors from construction noise.
- ▶ The primary contractor shall prepare and implement a construction noise management plan. This plan shall identify specific measures to ensure compliance with the noise control measures specified above. The noise control plan shall be submitted to the City of Folsom before any noise-generating construction activity begins. Construction shall not commence until the construction noise management plan is approved by the City of Folsom. Mitigation for the two off-site roadway connections into El Dorado County must be coordinated by the project applicant(s) of the applicable project phase with El Dorado County, since the roadway extensions are outside of the City of Folsom's jurisdictional boundaries.

The proposed mitigation measures 3A.11-1 are consistent with best management practices for reducing potential annoyance and exceeding any pertinent noise level standards. These are consistent with the mitigation measures provided in the noise analysis prepared by j.c. brennan & associates for the EIR.

Impact 4.6-2

This impact continues to be less than significant.

Impact 4.6-3 - Mitigation Measure 4.6-3(a)

Barrier heights as described in this mitigation measure and in Table 4.6-12, and Figure 4.6-2 of the Russell Ranch EIR are appropriate based upon the grading plans.

Impact 4.6-3 - Mitigation Measure 4.6-3(b)

This mitigation measure does not apply to Phases 3 and 4, due to distance from U.S. 50 and intervening residential development.

Impact 4.6-3 - Mitigation Measure 4.6-3(c)

This mitigation measure is still valid as described in the Russell Ranch EIR

Impact 4.6-4

This impact continues to be less than significant.

Impact 4.6-5 - Cumulative Impacts

Continued implementation of Mitigation Measures 4.6-3(a) and 4.6-3(c) described above.

If you or the City / County staff have questions, please contact me at 530-823-0960, or jbrennan@jcbrennanassoc.com.

Respectfully submitted,

j.c. brennan & associates, Inc.

A handwritten signature in blue ink, appearing to read "Jim Brennan". The signature is fluid and cursive, with a long horizontal stroke at the end.

Jim Brennan
President
Member: Institute of Noise Control Engineering

File: 2017-172 Mitigation Measures Analysis for the Project Entitlements - September 29 2017