

August 5, 2025

Vance Shannon  
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**Subject: Post-Construction Sound Level Measurements – Quick Quack Car Wash – Bass Lake Road, El Dorado County, CA**

Dear Mr. Shannon:

At your request, Saxelby Acoustics has reviewed the noise impact study<sup>1</sup> prepared by MD Acoustics, LLC and conducted post-construction operational noise level measurements of the recently completed car wash facility. Upon review of the written report, Saxelby Acoustics found that the noise study provided a sufficient analysis of the proposed project noise sources and appropriate assessment of the project against the County noise level standards. Therefore, no corrections or revisions to the report are recommended.

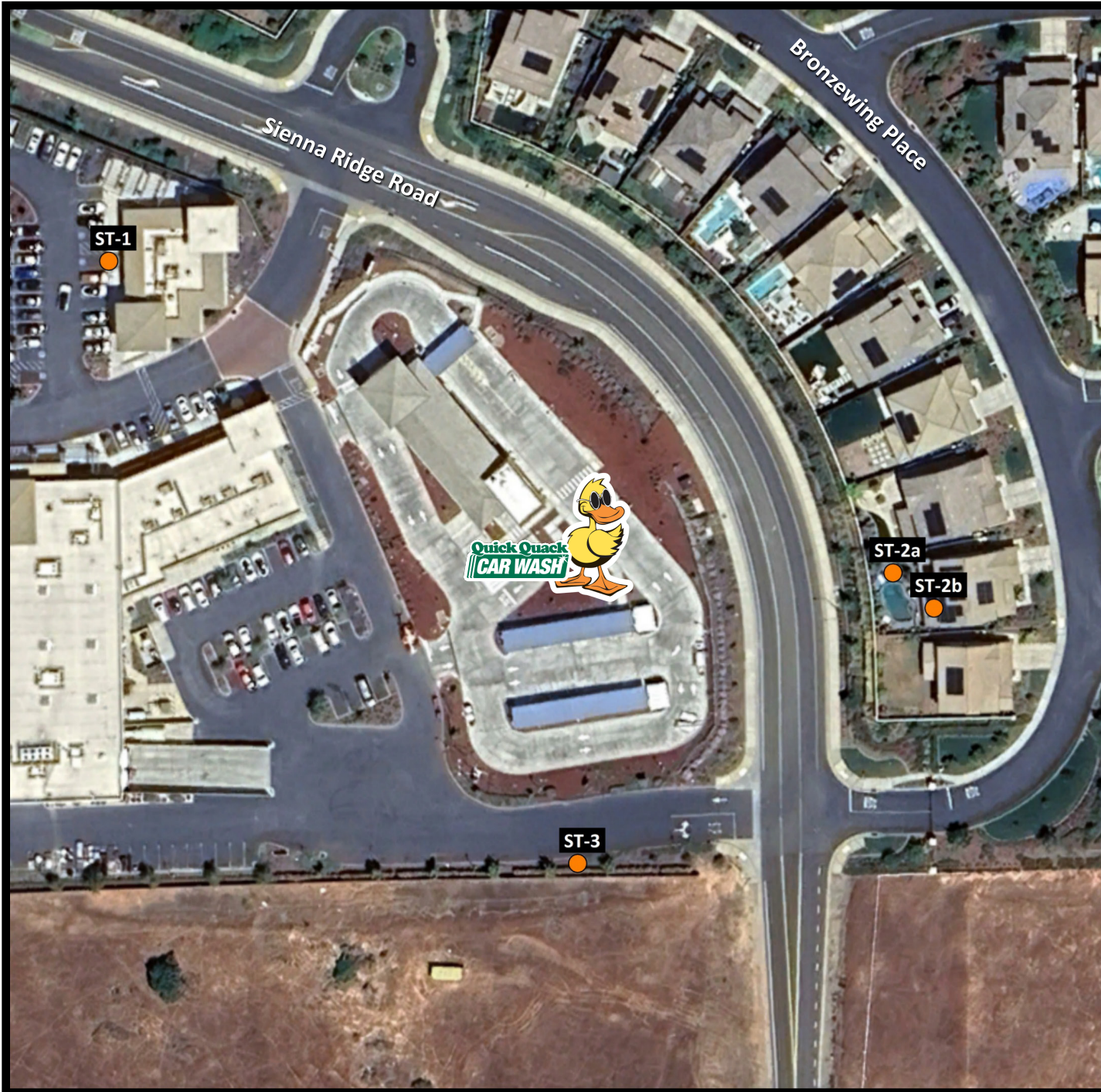
The proposed project is required to demonstrate that noise samples taken during the worst-case scenario (the blower and all vacuums operating at the same time) complies with the El Dorado County noise standard of 55 dBA  $L_{eq}$  during daytime (7:00 a.m. to 7:00 p.m.) and 50 dBA  $L_{eq}$  during evening (7:00 p.m. to 10:00 p.m.) hours at the nearby residences. The 50 dBA  $L_{eq}$  standard will be analyzed in this report as the operating hours for the car wash are expected to be 7:00 a.m. to 9:00 p.m. Existing residences are located north and east of the project site. Future residential uses will be located south of the project site.

On August 5, 2025, Saxelby Acoustics conducted noise level measurements of the operational car wash and vacuum producers. Noise measurements were conducted using a calibrated Type 1 Larson Davis Laboratories Model 831 sound level meter. Noise measurements were conducted with all car wash equipment running, including the dryer system and vacuum station. One to two vacuum nozzles were left unholstered during the measurements.

Noise levels for the car wash were collected at three receptor sites. ST-1 was measured at the western façade of the commercial buildings northwest of the car wash building. ST-2a was measured in the backyard of 9025 Bronzewing Place located east of the car wash exit. ST-2b was measured inside the residence in a second floor bedroom with a view of the car wash equipment. ST-3 was measured south of the car wash building. **Figure 1** shows the noise measurement locations.

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<sup>1</sup> Quick Quack Car Wash (Store #6-126) – El Dorado CA Noise Impact Study. MD Acoustics, LLC, 3/3/23



**Quick Quack Car Wash Bass Lake Road**


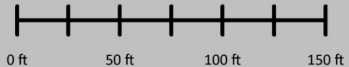
El Dorado County, California

Figure 1

Noise Measurement Sites

**Legend**

- Noise Measurement - Short Term

Projection: UTM Zone 10 / WGS84 / meters  
Rev. Date: 08/11/2025



**Figure 2** shows the noise measurement location ST-1. This location is approximately 180 feet northwest of the car wash entrance. The sound level meter was located approximately 20 feet from the façade of the commercial buildings. The ambient noise level (with all equipment off) was 53.8 dBA  $L_{eq}$  at this location. The primary source of noise was circulation in the nearby parking lot. The noise level with all project equipment in operation was measured to be 53.1 dBA  $L_{eq}$ . This noise level is assumed to be lower because the project contribution to the noise level is negligible. The commercial building provided substantial shielding and car wash sources were not audible during measurements. Saxelby Acoustics determined that the project-only noise level contribution at this location is well below the 50 dBA  $L_{eq}$  noise level standard. Therefore, the project noise levels would comply with the El Dorado evening noise level standard of 50 dBA  $L_{eq}$  at this location.



**FIGURE 2: ST-1 MEASUREMENT LOCATION**

**Figure 3** shows the noise measurement location ST-2a. This location is approximately 250 feet east of the car wash exit. The sound level meter was located approximately 20 feet from the 5.5-foot-tall sound wall in the backyard. The ambient noise level (with all equipment off) was 43.2 dBA  $L_{eq}$  at this location. The primary source of noise was traffic on the local roadway network. The noise level with all project equipment in operation was measured to be 50.6 dBA  $L_{eq}$ . The project-only contribution at this location was calculated to be 49.7 dBA  $L_{eq}$ . Therefore, the project noise levels would comply with the El Dorado evening noise level standard of 50 dBA  $L_{eq}$  at this location.



**FIGURE 3: ST-2A MEASUREMENT LOCATION**

Measurement ST-2b was taken inside the residence. A photo is not provided for privacy. This measurement was taken in a second-floor bedroom with a window looking directly down at the car wash equipment. The sound level meter was placed at least 5 feet from reflective surfaces. The ambient noise level (with all equipment off) was 29.1 dBA  $L_{eq}$  at this location. The primary source of noise was traffic on the local roadway network. The noise level with all project equipment in operation was measured to be 33.1 dBA  $L_{eq}$ . The project-only contribution at this location was calculated to be 30.9 dBA  $L_{eq}$ . Car wash sources were not readily identifiable above background noise.

**Figure 4** shows the noise measurement location ST-3. This location is approximately 220 feet south of the car wash exit. The sound level meter was located approximately 10 feet from the 8-foot-tall sound wall directly south. The primary source of noise at this location was car wash blower and vacuum noise. The noise level with all project equipment in operation was measured to be 62.2 dBA  $L_{eq}$ . To determine the sound level reduction provided by the sound wall, Saxelby Acoustics modeled the car wash using the SoundPLAN noise prediction software. Inputs to the model included sound level data for car wash blowers and vacuum sources calibrated to measurement points, ground effects, building locations and heights, and topography data. **Figure 5** shows the SoundPLAN point level calculation results. Based upon the SoundPLAN calculation, it was determined that noise levels generated by the car wash would range from 47-49 dBA  $L_{eq}$ . Therefore, the project noise levels would comply with the El Dorado evening noise level standard of 50 dBA  $L_{eq}$  at this location.



**FIGURE 4: ST-3 MEASUREMENT LOCATION**

# Quick Quack Car Wash Bass Lake Road






El Dorado County, California

Figure 5

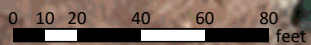
Car Wash Noise Levels  
( $L_{eq}$ , dBA)



### Legend

-  Project Building
-  Building
-  Wall
-  Vacuum
-  Noise Level

Scale 1:60



## SUMMARY

Based on the conducted noise survey, Saxelby Acoustics determined that the project car wash and associated mechanical equipment do not exceed the El Dorado County noise level standard of 55 dBA  $L_{eq}$  during daytime (7:00 a.m. to 7:00 p.m.) hours and 50 dBA  $L_{eq}$  during evening (7:00 p.m. to 10:00 p.m.). I hope this information is helpful, please do not hesitate to contact us with any additional comments.

Sincerely,

Saxelby Acoustics LLC



Luke Saxelby, INCE Bd. Cert.  
Principal Consultant  
Board Certified, Institute of Noise Control Engineering