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July 23, 2026

Doug Burgess
D&B Processing LLC
9750 S 219th East Ave
Broken Arrow, OK 74014

Subject: Noise Assessment – D&B Processing

Dear Mr. Burgess,

This letter report provides information on noise being generated by D&B Processing LLC in Broken Arrow and the steps being taken to mitigate it. Sound level measurements were made at the property line of a nearby house at the point closest to the plant using a Larson Davis 831 Type I Precision Sound Level Meter and ½ inch microphone. Three five-minute samples were taken: one on July 15th, 2026 at 9:15 pm, and two on July 16th, 2026 at 2:55 pm and 3:00 pm.

The following graphs show the recorded sound levels in decibels (dBA). Sound level spikes from sources OTHER than the plant have been noted.

Figure I: Sound Levels Recorded, 7/15/26, 9:15-9:20 pm

Time History

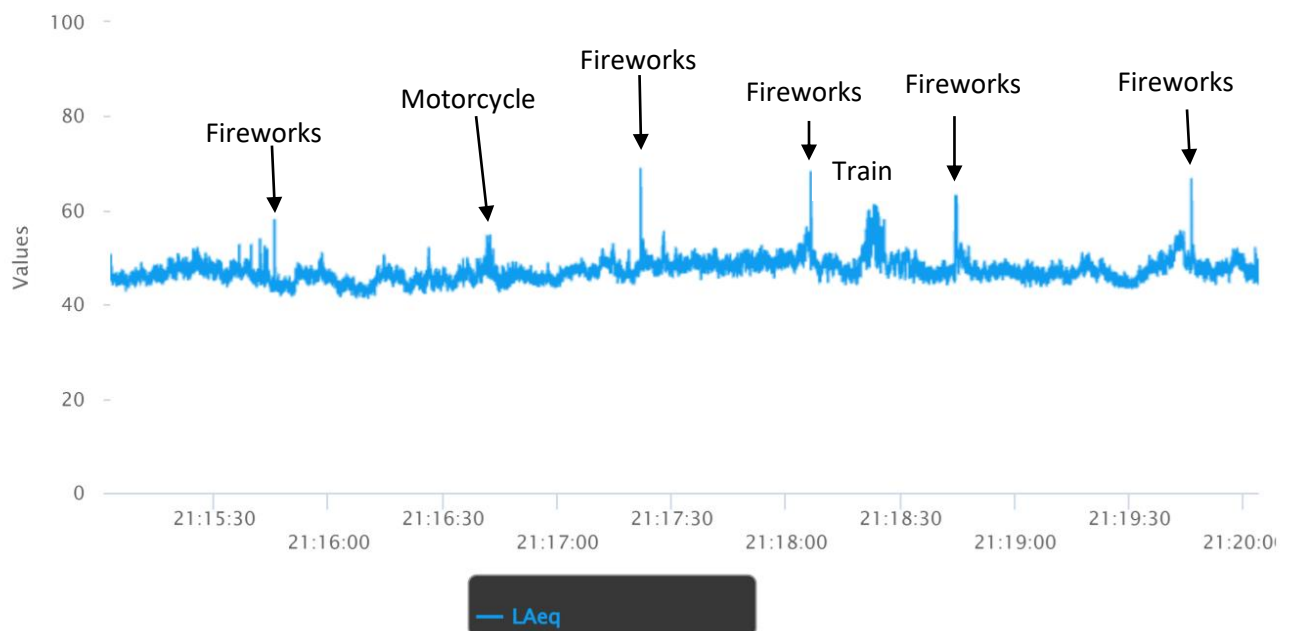


Figure II: Sound Levels Recorded, 7/16/26, 2:55-3:00 pm

Time History

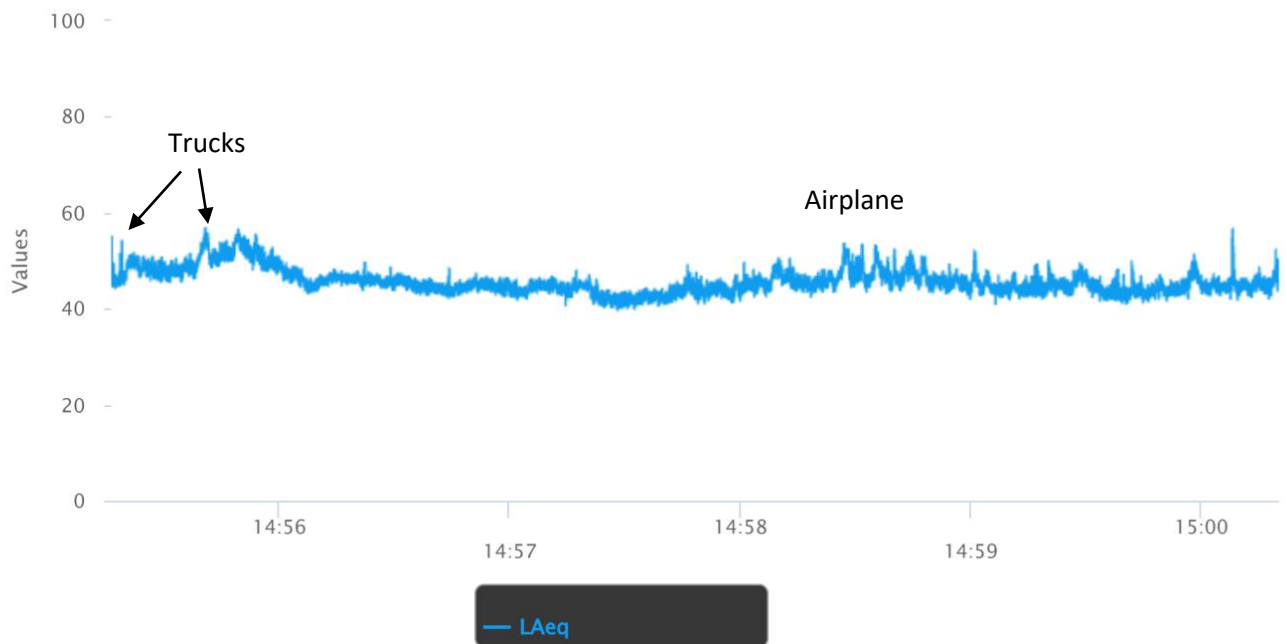
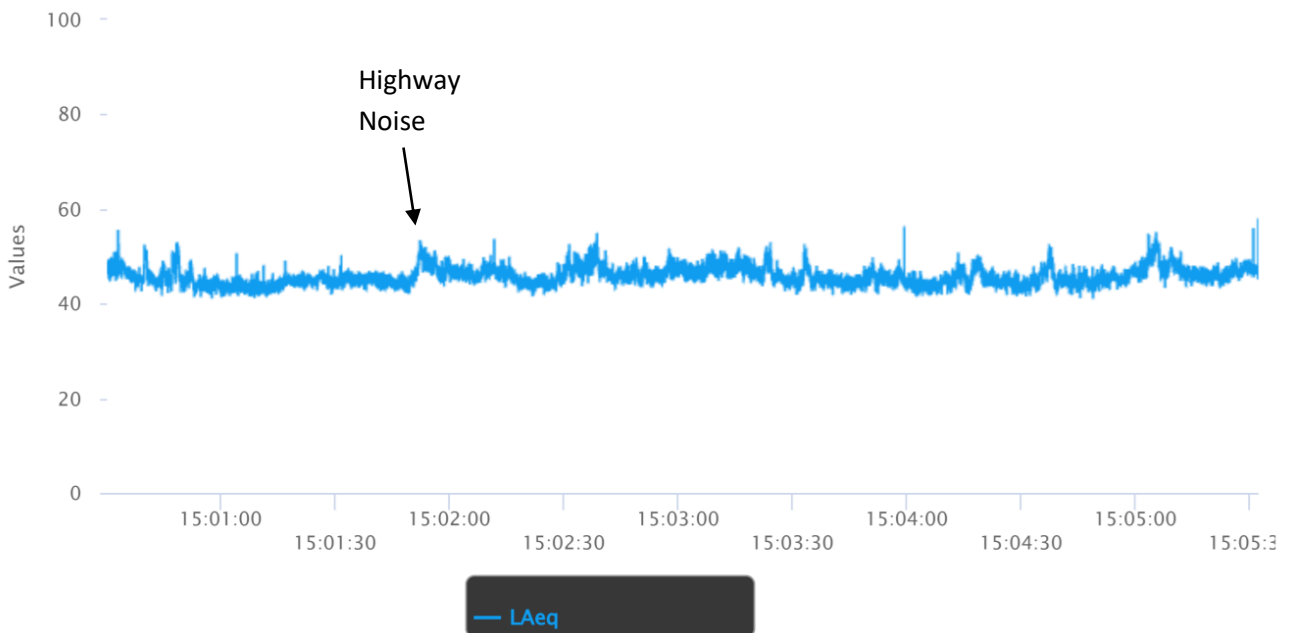


Figure III: Sound Levels Recorded, 7/16/26, 3:00-3:05 pm

Time History



The EPA recommends an average outdoor level of 55 dBA over time to prevent “activity interference and annoyance.” The noise generated by the plant rarely exceeds this, and when it does, it does so only briefly and by only 1-2 dBA. Therefore, the total noise generated by the plant is, in itself, of no concern. However, what could be potentially considered bothersome is noise level spikes above the ambient, and there are a few points of concern in this regard.

Plant Noise vs. Ambient Noise

The following two graphs highlight two data points of particular concern: the first at 3:00:08 pm and the second at 3:03:59 pm, both on the afternoon of the 16th.

Figure IV: Sound Level Spike, 7/16/26, 3:00:08 pm

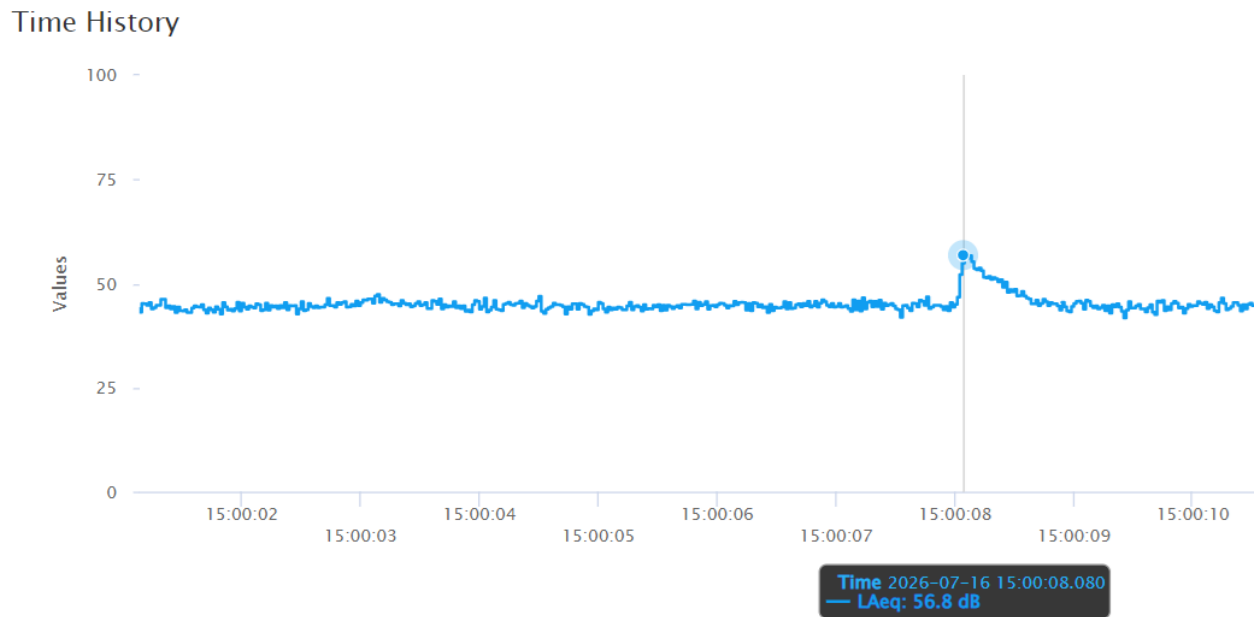
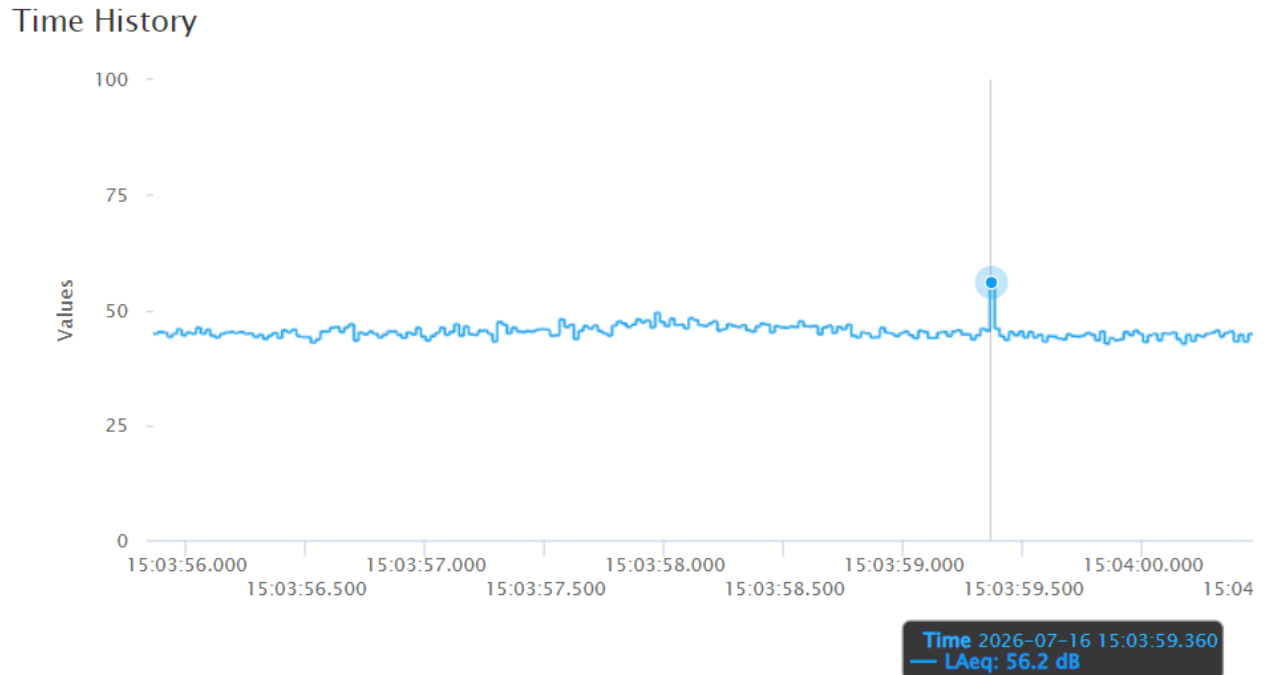


Figure V: Sound Level Spike, 7/16/26, 3:03:59 pm



These noises were recorded at 56.8 dBA and 56.2 dBA, respectively, or 11-12 decibels above the ambient of 45 dBA that was recorded at the house's property line. These were the two worst spikes seen across all three sessions. I was present on the property for approximately half an hour each day, and I did not observe noise levels beyond those recorded and included here.

To get an idea of how spikes like this are perceived, the following chart provides insight into how source noise levels *exceeding* ambient noise levels can affect reactions of people living, working, or performing other activity within hearing range of the noise source.

Table I: Reactions to Noise Levels

Categories Encroaching Noise Level Exceeding Ambient Level by:	Reaction by Persons Living in Houses, Working Indoors, Enjoying Parks and Other Activities.
Zero to 5 dBA	A few complaints from locations nearest to the noise source.
5 dBA to 10 dBA	Many complaints from neighbors, local groups such as home-owners associations, some calls to the police.
10 dBA to 15 dBA	Complaints from distant places, many calls to the police, threats of hiring attorneys. warning of shutting noise source down.
15 dBA to 20 dBA	Working with attorneys in process, visits by the sheriff warning of shutting down the noise source.
20 dBA or higher	Shutdown of the noise source by the sheriff.

This approach to predicting actions taken by persons or organizations concerning noise is not new or unusual. Dr. John Shadley's first knowledge of it was a talk presented around 1972 to acoustical engineers at the company Bolt Beranek and Newman. Using this guide, with some additions or modifications over the years, he has found it to remain the best approach for predicting reactions to noise.

As it stands now, these sound level spikes are in the third category, but there are two things to bear in mind: first, even this far above the ambient, 56 decibels is approximately equivalent to the volume of a soft conversation; and second, the effect is significantly reduced behind closed doors and windows. Furthermore, steps can be taken to mitigate the bothersome noise.

Steps to Mitigate Sound

The 8-foot-high wall currently under construction 15 feet from the property line will reduce the incoming sound by an *estimated* 8.9 decibels at the property line, and by an *estimated*

5.9 decibels at the front door of the house. This already brings the maximum sound level spikes into the lower end of the second category.

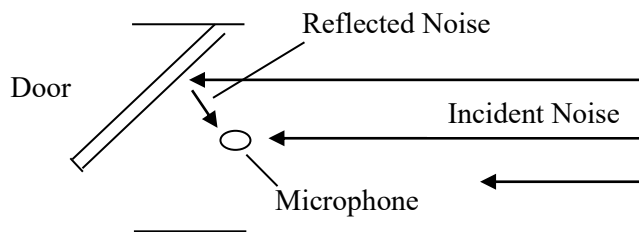
In addition, I highly recommend the company purchase soundproof window inserts from Soundproof Windows, Inc. for the houses. They have been shown to reduce noise levels by 75-95%, and they are placed behind existing windows, so there is no need to replace or remove them. You can get more information at soundproofwindows.com.

Between these two measures, the noise level should be reduced to a point well below that which can reasonably be considered bothersome.

Observed Outside Measurements

The owner of the house which issued the complaint has been observed via video to be taking video and sound recordings of the plant. Whenever he does, it has been observed that he does so with a door propped open directly behind him. This results in his microphone recording the incident noise *combined* with its reflection from the door, as illustrated in Figure VI:

Figure VI: Combined Incident and Reflected Noise



When both of these combine, it results in a *higher* recorded sound level than is actually being produced; these readings are therefore inaccurate and should be disregarded.

Sincerely,

Bruce Haiduk
BD Haiduk Acoustics, LLC