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To: Harold Perrin; Donna Jackson; Charles Frierson; Gene G Vance; Charles Coleman; chrismooreplumbing@yahoo.com; Ann Williams; elgibson@sbrmc.org; John Street; Mitch Johnson; Darrel Dover; Rennell Woods Contact; Tim MCall; Mike Fears

Cc: Brian Malone

Subject: A Noise Study

City Council Members,

I have some Noise data that I would like to share with you. I have done an extensive amount of research on the affects of noise that will be produced by the Fairgrounds and its 5,000 seat Outdoor Amphitheater, Fair, rodeo, demolition derby, and tractor pulls on the surrounding residential community.

If you are having a normal conversation you are producing around 60-70 decibels. In the United States, the League of the Hard of Hearing estimates that noise levels at concerts hover between 110 and 120 decibels, the equivalent of a power saw, leaf blower, chain saw, or ambulance siren. The league also notes that [The National Institute for Occupational Safety and Health \(NIOSH\)](#) recommends exposure to noise at those levels not exceed one minute 29 seconds.

The Federal Railroad Administration has established that train horns are not to exceed 110 decibels: as stated in the FRA Train Horn Rule Fact sheet published in 2010. Our neighborhood resides within 500 feet of the railroad tracks. The proposed 5,000 seat Outdoor Amphitheater will be also within 500 feet of my home. Please note that the decibel levels of a train horn and concert are very similar.

I have attached a chart that shows how the FRA models the dissipation of noise as the distance from the grade crossing increases. This model shows that speech interference can begin to occur approximately 7,000 feet from the track when the train horn is sounding. People outside and closer than 1,500 feet from the track may have to shout to be heard. Outside conversations, closer than 400 feet from the track, usually have to cease until the train passes by.

Hence, you can see from the comparison I have provided that being outside in my yard would be almost impossible during a concert or other "loud" events at the fairgrounds (such as the annual fair, rodeo, demolition derby, tractor pulls, concerts....)at the proposed Fairgrounds site.

Here is my big argument: If I chose to move my family into this subdivision regardless of the proximity to the Northeast Arkansas District Fairgrounds, then I would have no reason to fight this action. But, I did not purchase my property with the notion that something like this would ever be allowed to build next to such a largely residential area. I fear that if the annexation of the land at the Farville Curve goes through all the 500+ homeowners will suffer from low property values, violence to children, criminal activity in and around the Fair, and be subject to the noise and traffic that will endanger my child's health and well-being.

Thank you for listening to my argument.

Shelly Jones

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