



June 24, 2025

Christopher Yuen
Community Development Director
City of Essex Junction
2 Lincoln Street
Essex Junction, Vermont 05452

RE: Environmental Sound Monitoring – Mt. Joy Concert

Dear Mr. Yuen;

Vermont Air Testing Services (VATS) was retained by the City of Essex Junction to perform perimeter environmental sound monitoring at the Champlain Valley Exposition (CVE) for selected outdoor events held at the facility throughout the 2025 summer concert and fair season. Sound monitoring was performed using two Quest Technologies Sound Pro DL Type II integrating/logging sound level meters (SLM) setup to collect broadband sound level readings. The two SLMs used for the monitoring were configured to log average sound pressure levels every 5 seconds in the broadband or A-weighted scale. The microphones for each meter were fitted with a windscreen to minimize wind disturbance. Both meters were calibrated to a 114 decibel (dB) tone prior to the monitoring event and the calibration was checked following the sound monitoring event.

Two SLMs were deployed for the Mt. Joy Concert event held in the Midway area at the CVE facility on June 10, 2025. Both the east and west fence-line boundaries were monitored for sound levels. The east boundary meter was located approximately 200 feet south of the Green Gate along the fence line, behind the Midway stage. The west boundary meter was located along the fence-line behind the Blue-Ribbon Pavilion building with direct-line of sight to the concert stage. The concert was a 2-plus-hour event with the music beginning at approximately 8:00 pm on the Midway stage, which was oriented towards the western property line. Both SLMs began collecting sound data prior to the beginning of the show until its conclusion.

The weather for the Tuesday night show was fair skies with winds out of the southwest from 5 to 8 mph and temperatures in the mid 60's throughout the event. Sound monitoring along both the eastern and western boundaries began at approximately 8:00 pm and the sound monitoring concluded after the show ended at approximately 10:40 pm. Both meters monitored the sound levels continuously throughout the event from the beginning of the concert to its conclusion. The sound monitoring data is presented for both meters in the attached charts and a summary of the monitoring data is provided below.

The maximum allowable hourly average sound level is established at 78 dBA with the maximum 5-minute average sound level set at 83 dBA. The table below presents the SLM east property line hourly average sound data, the maximum measured sound level, and the time duration of sound levels above maximum allowable sound level in minutes.

Table 1: East Property Line Data

	Hour 1	Hour 2	Hour 3
Hourly Average (dBA)	68.0	68.0	68.7
Max Sound Level (dBA)	78.9	77.7	78.8
Time Above Max Level (min)	0.0	0.0	0.0

The data presented above indicates the hourly average sound limits were not exceeded along the east boundary at any time during the concert event. The maximum sound level was not exceeded along the east property boundary throughout the event. The maximum sound limit is defined as a sustained maximum five-minute average in the established sound criteria limits (83 dBA).

The west property line sound monitoring data is presented below in the same manner as the east property line data above.

Table 2: West Property Line Data

	Hour 1	Hour 2	Hour 3
Hourly Average (dBA)	69.1	67.8	69.5
Max Sound Level (dBA)	79.1	77.7	81.0
Time Above Max Level (min)	0.0	0.0	0.0

The data shown above indicates the west side property line sound levels were all below the 78 dBA hourly average limit during the concert monitoring event. The maximum sound levels were also maintained below the 83 dBA limit.

The sound level data is presented in attached charts for the SLMs used during the Mt. Joy Concert event held on June 10, 2025. The sound levels measured throughout the event did not exceed the established sound level criteria without exception. The established sound level criteria used for monitoring outdoor events held at the Champlain Valley Exposition are defined in the Noise Indemnification Agreement between the Champlain Valley Exposition and the City of Essex Junction.

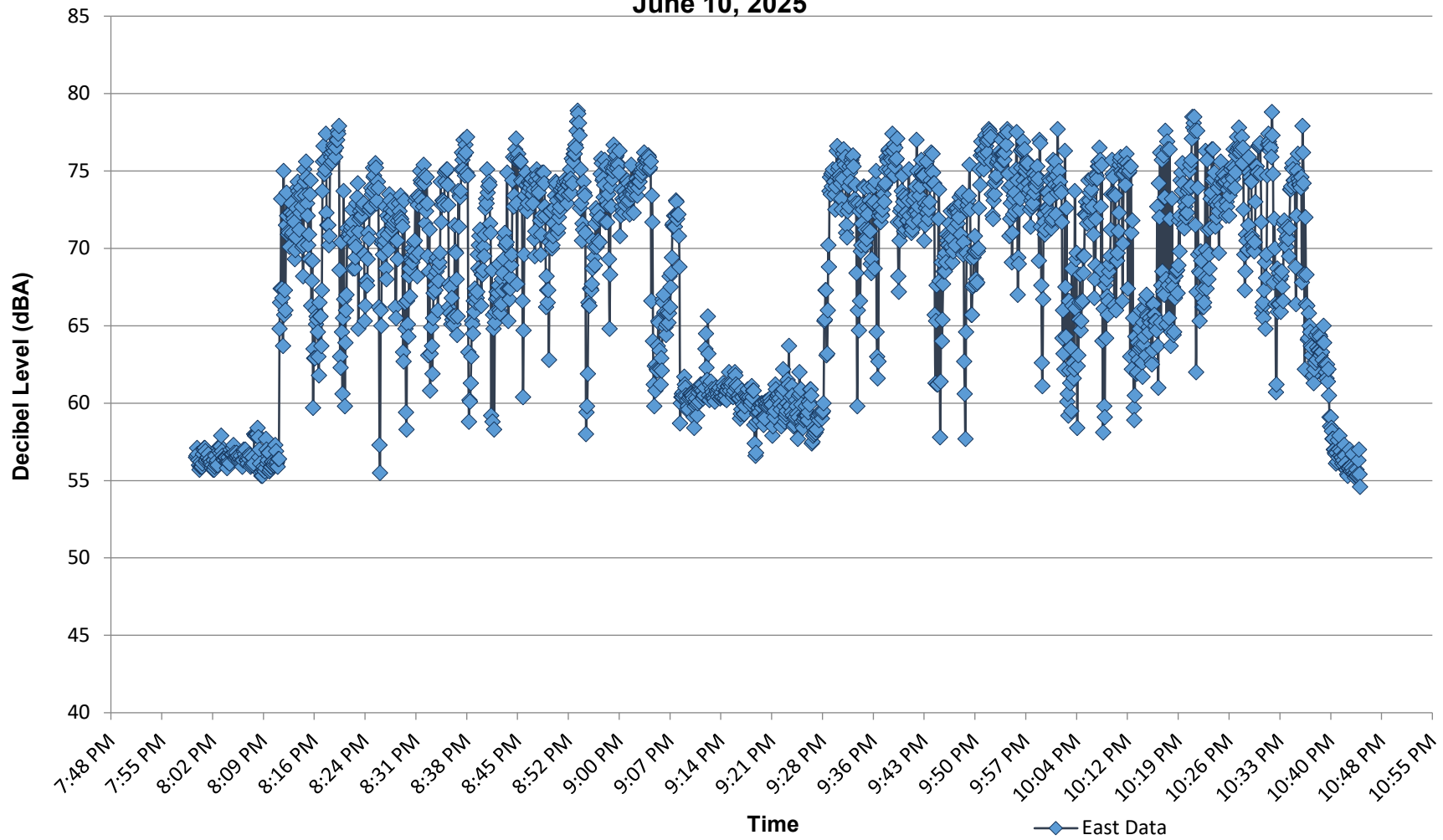
Best regards,



Principal

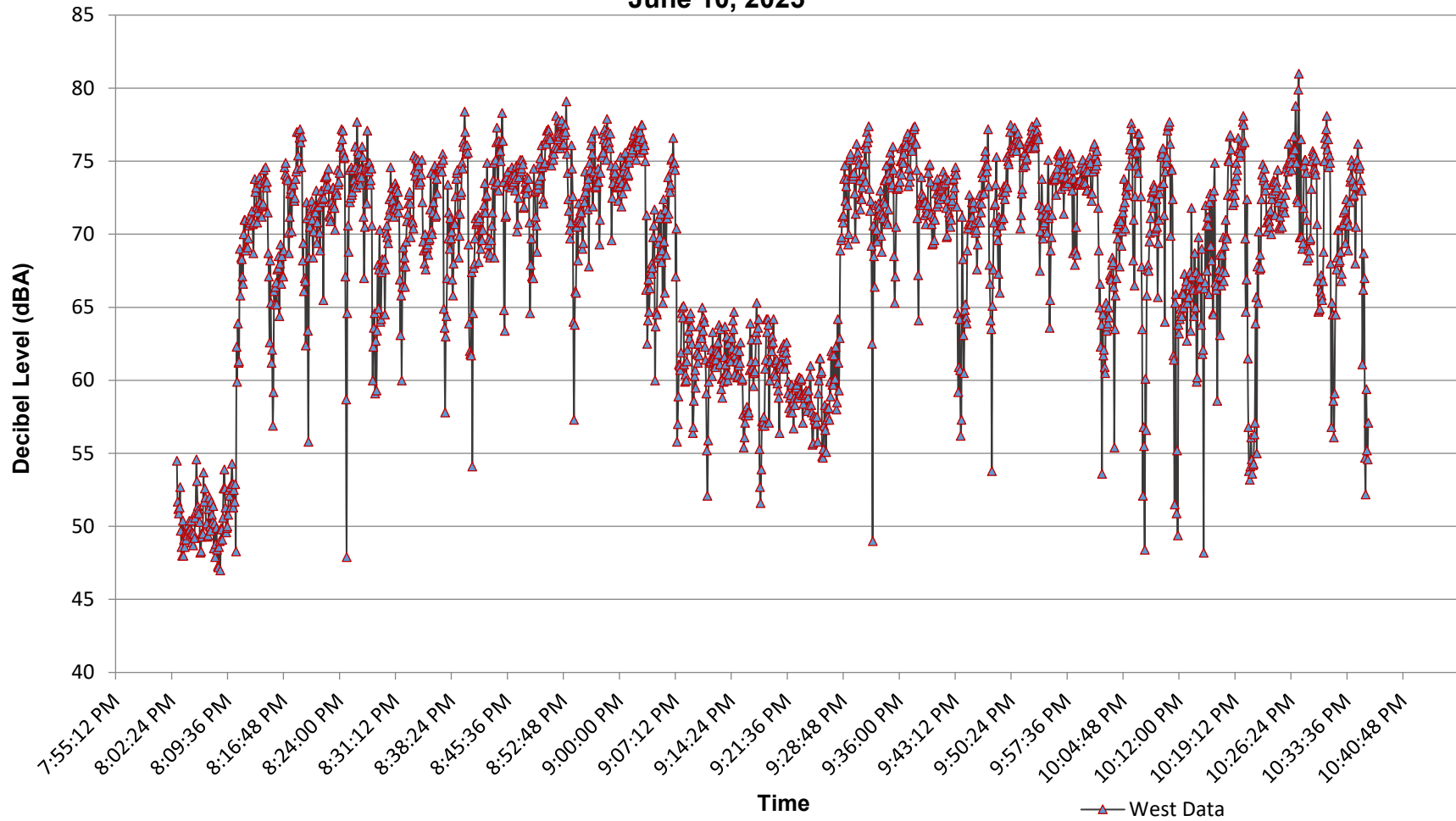
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**Champlain Valley Exposition
Mt. Joy Concert - East Boundary Sound Monitoring
June 10, 2025**



	Hour 1	Hour 2	Hour 3
Hourly Avg	68.0	68.0	68.7
Max Levels	78.9	77.7	78.8
Exceeding Limit (min)	0.0	0.0	0.0

Champlain Valley Exposition Mt. Joy Concert - West Boundary Sound Monitoring June 10, 2025



	Hour 1	Hour 2	Hour 3
Hourly Avg	69.1	67.8	69.5
Max Levels	79.1	77.7	81.0
> 83 dBA (sustained time > 83 dB, in minutes)	0.0	0.0	0.0