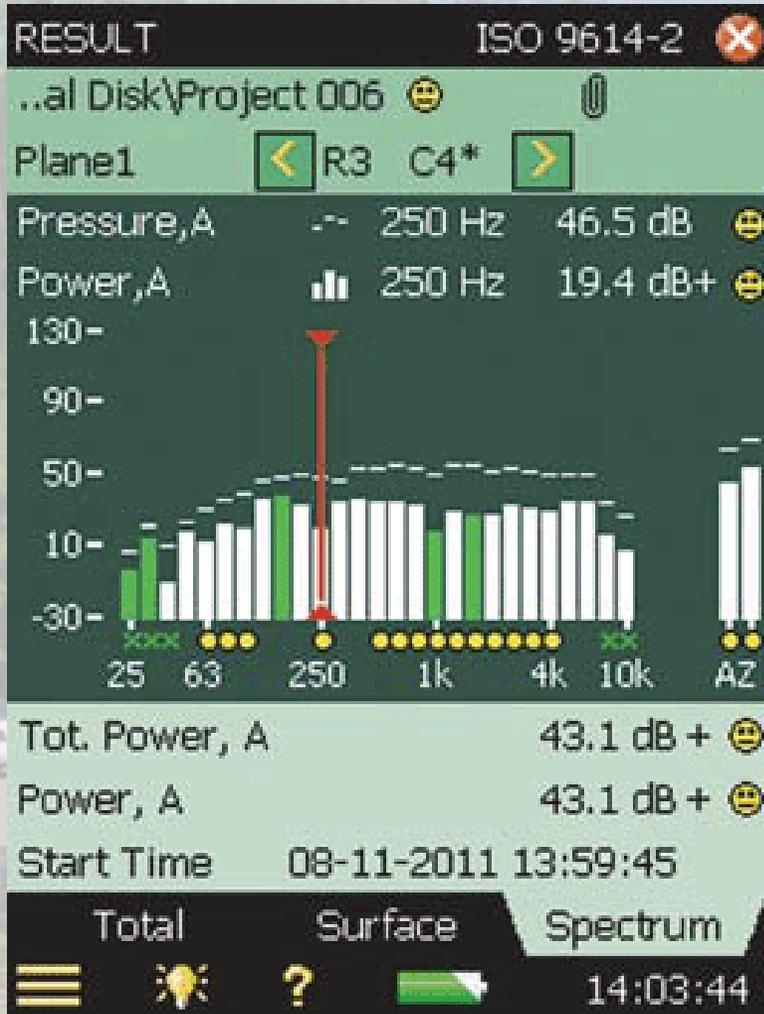


Amherstburg Legion Noise Study

Preliminary Findings



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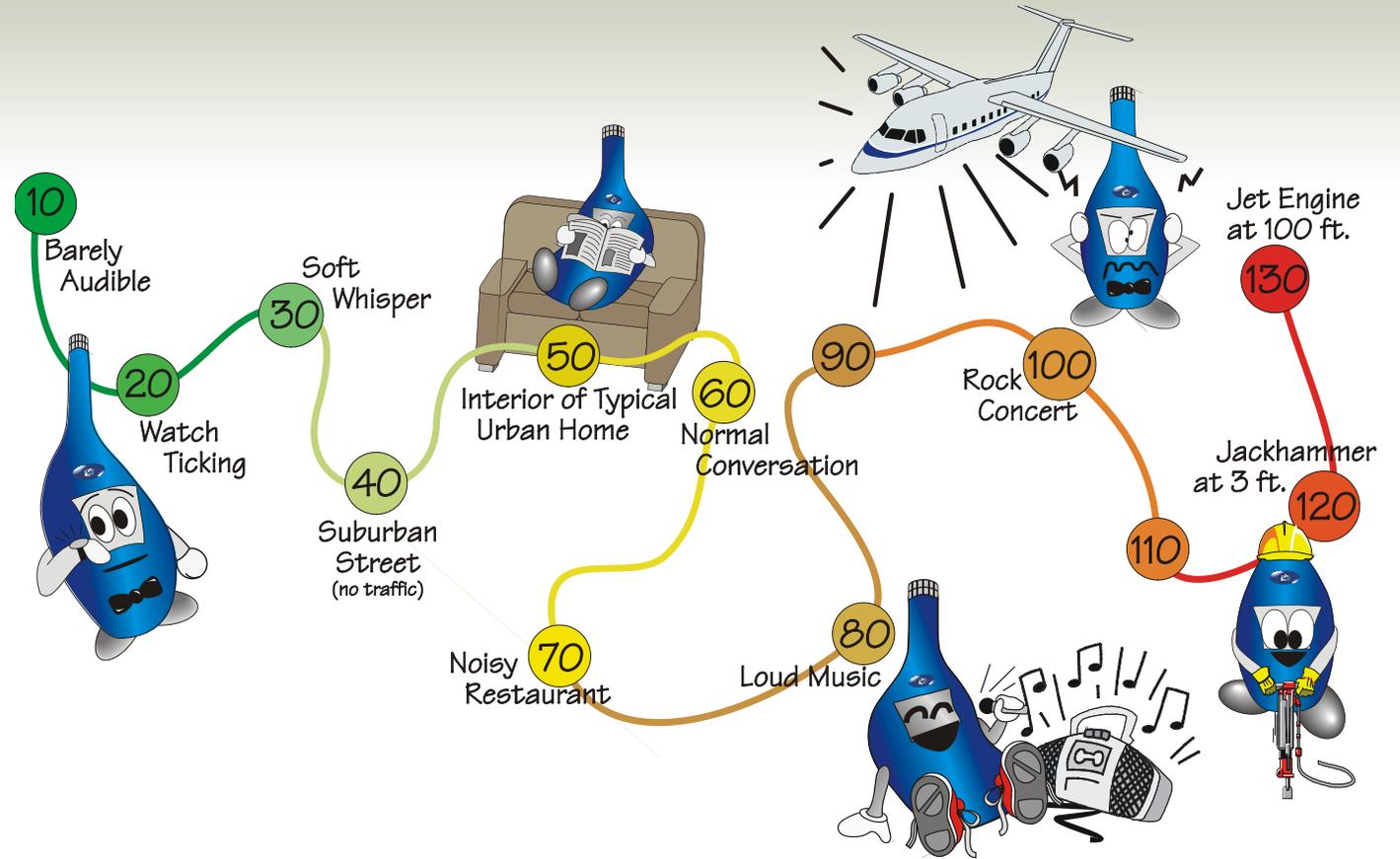
Approach

- Installed a Bruel & Kjaer Type 2250 noise monitor with outdoor microphone at third level above grade opposite to the Legion patio to compare the community ambient sound levels to the levels during periods with band performances
- Noise levels were measured and logged every hour from Friday June 28 until Tuesday June 02.
- Data considered for each period included:
 - A-weighted equivalent sound level (L_{eq})
 - A-weighted maximum sound level (L_{max})



Typical Sound Levels

- Typical indoor sound level is 50 dB during the daytime and 40 dB at night
- Municipal street traffic noise measured outside is typically between 50 dB and 65 dB
- Building façade and windows will typically reduce outside noise to the inside of a dwelling by 10 dB



Perception of Sound Levels

Change in Sound Level (dB)	Change in Perceived Loudness
3	Just perceptible
5	Noticeable difference
10	Twice (or 1/2) as loud
15	Large change
20	Four times (or 1/4) as loud



Measured Equivalent and Maximum Sound Levels

Date	Average Leq (dBA) (Ambient/Band)	Max Leq (dBA) (Ambient/Band)	Average Lmax (dBA) (Ambient/Band)	Max Lmax (dBA) (Ambient/Band)
Saturday June 29	59/67	63/74	82/88	91/98
Sunday June 30	59/65	63/71	83/88	88/102
Monday July 01	58/69	60/74	80/90	91/98

Demonstration



Thank you for listening!

