

A P P E N D I X K

N O I S E D A T A



	Leq (measured)	Distance to center of field from measurement location	Approx distance to center of proposed field from nearest existing sensitive receptor (conservative)	Distance noise reduction formula	Projected received noise at nearest sensitive receptor	Existing short-term noise level at nearest sensitive receptor	Additive noise formula	Resulting short-term noise level at nearest sensitive receptor (dBA)	Increase (dBA)
Soccer game	57 dBA	114 feet	250 feet	$10 \cdot \text{LOG}(114/250)$	53.6 dBA	66 dBA	$10 \cdot \text{LOG}((10 \cdot (53.6/10) + 10 \cdot (66/10)))$	66.2	0.2
Soccer game	57 dBA	114 feet	500 feet	$10 \cdot \text{LOG}(114/500)$	50.6 dBA	54 dBA	$10 \cdot \text{LOG}((10 \cdot (50.6/10) + 10 \cdot (54/10)))$	55.6	1.6
Soccer game	57 dBA	114 feet	150 feet	$10 \cdot \text{LOG}(114/150)$	55.8 dBA	61 dBA	$10 \cdot \text{LOG}((10 \cdot (55.8/10) + 10 \cdot (61/10)))$	62.1	1.1

Noise monitoring of boys football practice and tennis court activity was conducted on August 24, 2008 between the 10:30 a.m. and 11:00 a.m. at John A. Murdy Elementary School playfield for a duration of 15 minutes.

Description: The noise meter was placed approximately 14 feet from the edge of the soccer field near the halfway line of the field. Distance to the center of the field is 114 feet. There were 21 spectators/coaches/substitutes in proximity (15 feet south) of the noise meter in an area approximately 2,950 sf in size. Overall, there were approximately 39 spectators in the 16,500 sf area covering the areas south and west of the monitoring station (excluding the players on the field). Primary noise sources during the game were from the players (22 total) on the field and a coach on the sidelines playcalling. General noise from the field consisted of player communication with each other, the sound of the ball being kicked, running, and whistle from the referee. Secondary noise sources were from general chatter of spectators dispersed along the southeastern sideline of the field. Noise from traffic along Bushard Street (approximately 320 feet from centerline to the noise meter) were not prevalent during the game. Noise monitoring was conducted at John A. Murdy Elementary School located at 14851 Donegal Drive in the City of Garden Grove during a private league match.

