

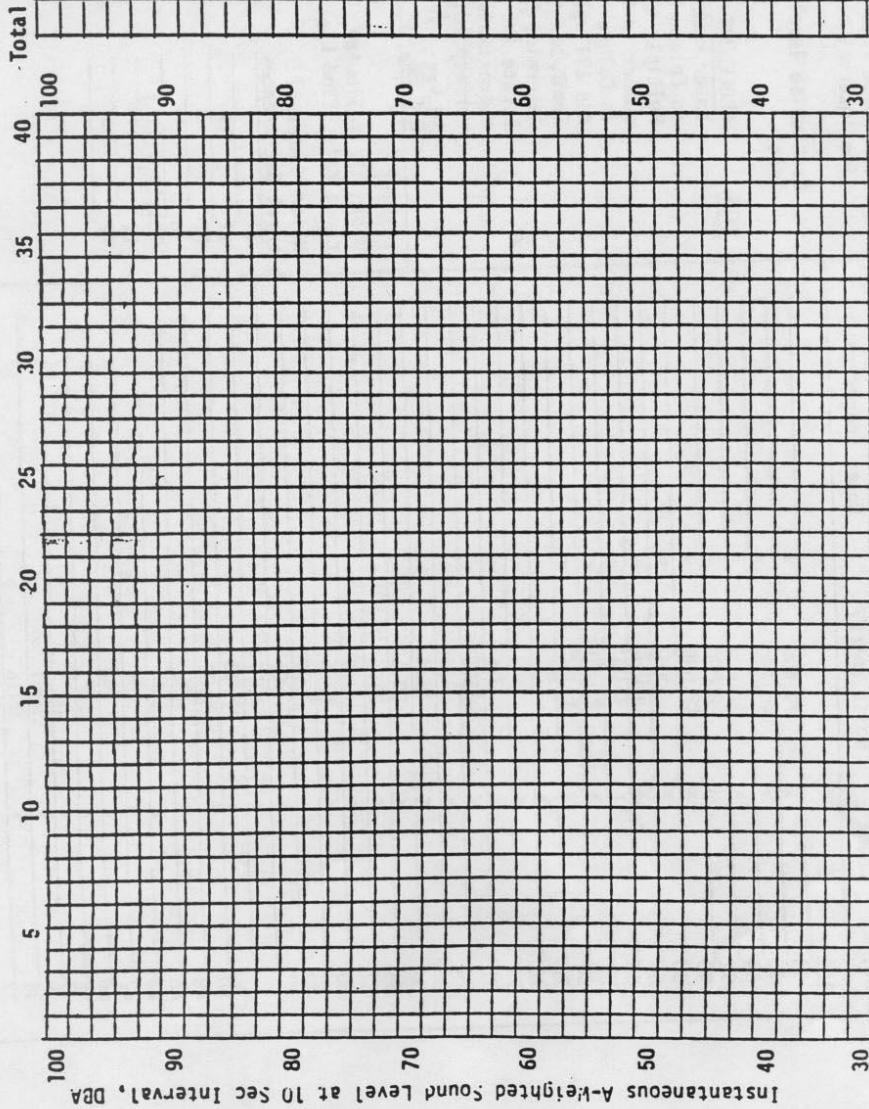
Appendix F- COMMUNITY NOISE MEASUREMENT DATA SHEET

SITE No. _____ PACKET No. _____ CLUSTER _____ AREA _____

Location _____
 Operator's _____
 Date DAY M TU W TH F SAT SUN
 TIME AM/PM TO AM/PM
 WIND SPEED KM/H (MPH)
 AIR TEMPERATURE °C (°F)

MASTER CHECK ()
 BATTERY: OK REPLACED
 SETTINGS: A SLOW
 CALIBRATIONS: SET TO DB.END DB

MISCELLANEOUS(After Data Coll.)
 Background Noise Sources
 Unusual Situations or Interferences:
 Comments



DESCRIPTION EVALUATION
 V. QUIET V. ACCEPT.
 QUIET ACCEPTABLE
 M. QUIET M. ACCEPTABLE
 NOISY UNACCEPTABLE
 V. NOISY V. UNACCEPT.

Code for identifiable Simple noise sources
 TRANSPORTATION MACHINERY
 E EMER. VEH. C CONSTRUCTION
 G GEN. AVIA. Y YARD MAINT.
 J JET F FACTORY
 H HELICOPTER Q HOUSEHOLD
 R RAILROAD OTHER
 T TRUCK D DOOR
 A AUTO P PEOPLE NOISE
 B BUS X UNIDENTIFIABLE
 M MOTORCYCLE
 S SERVICE VEH.
 V OFF RD. VEH.

Number of Readings Per 2-DB Interval	
5	
10	
15	
20	
25	
30	
35	
40	
Sum	

FURTHER COMMENTS:

Computational Work Sheet to Hand-Calculate L_{eq} from Sound Level Meter Measurements Recorded on Data Log

A	B	Relative Noise Energy	Relative Total Noise Energy
100			
98	X	79,400	=
96	X	50,100	=
94	X	31,600	=
92	X	20,000	=
90	X	12,600	=
88	X	7,910	=
86	X	5,010	=
84	X	3,160	=
82	X	2,000	=
80	X	1,260	=
78	X	794	=
76	X	501	=
74	X	316	=
72	X	200	=
70	X	126	=
66	X	79.4	=
64	X	50.1	=
62	X	31.6	=
60	X	20.0	=
58	X	12.6	=
56	X	7.94	=
54	X	5.01	=
52	X	3.16	=
50	X	2.00	=
48	X	1.26	=
46	X	.79	=
44	X	.501	=
42	X	.316	=
40	X	.200	=
38	X	.126	=
36	X	.0794	=
34	X	.0501	=
32	X	.0316	=
30	X	.0200	=
	X	.0126	=
		SUM D =	
		SUM B =	
		SUM D/SUM B =	

DATA REQUIREMENTS:

- o Each noise reading must be taken at a standard time interval between measurements.
- o Each noise level recorded is the instantaneous level.

PROCEDURE
 Enter number of counts per noise level in Column B.
 Multiply the counts in Column B by the number in Column C and enter the result in Column D.
 Add all values in Column B to determine Sum B, add all values in Column D to determine Sum D and divide Sum D by Sum B. Locate the value in Column C that is approximately equal Sum D/Sum B. The corresponding value in Column A is equal to L_{eq} . Interpolate to the nearest 0.5 dB.

EXAMPLE
 Using Steps 1 through 4 gives
 Given the following
 count date, find L_{eq}

Noise Level	Occurrences	A	B	C	D
81	11	81	2	2,000	4,000
82	11	82	0	1,260	0
78	11	78	5	394	3,970
74	11	74	4	501	5,511
72	11	72	0	316	1,264
				200	0

Sum B = 22 Sum D = 14,745
 Sum D/Sum B = 670 $L_{eq} = 70$ dB

o by linear interpolation in Column C and Column A