

Project: CompetitiveEnergyFinal	Description: Vestas V82 - 103.3 dB(A)	Printed/Page 10/17/2006 4:53 PM / 1
		Licensed user: Renewable Energy Research Lab, University of Massachusetts 160 Governors Drive US-AMHURST, MA 01003 2969
		Calculated: 10/17/2006 4:51 PM/2.4.0.57

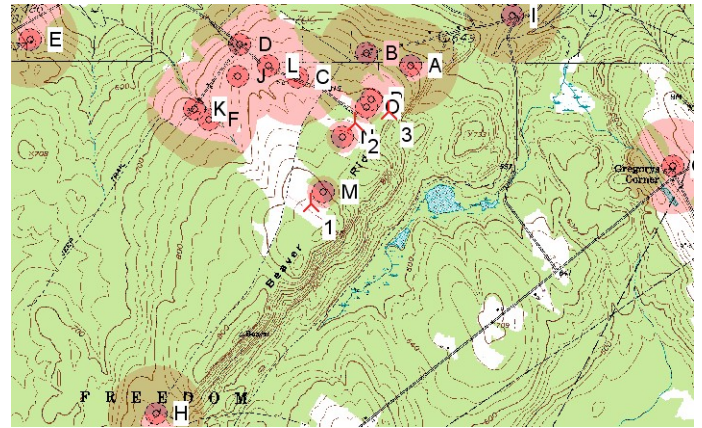
DECIBEL - Main Result

Calculation: Vestas V82 - 103.3 dB(A)

ISO 9613-2

The calculation is based on the international norm "ISO 9613-2 Acoustics - Attenuation of sound during propagation outdoors"

Wind speed in 10 m height: 10.0 m/s
Meteorological correction factor, C0: 0.0 dB



Scale 1:50,000
New WTG Noise sensitive area

WTGs

UTM WGS84 Zone: 19	East	North	Z	Row	data/Description	WTG type			Noise data									
						Valid	Manufact.	Type	Power	Diam.	Height	Circle radius	Creator	Name	LWA,ref	Pure tones	Octave data	
			[m]						[kW]	[m]	[m]	[m]				[dB(A)]		
1	473,092	4,926,539	280	Tower1	Yes	VESTAS	V82 - 60Hz	1,650	82.0	78.0			USER	User Defined	103.3	No	No	
2	473,386	4,927,069	256	Tower2	Yes	VESTAS	V82 - 60Hz	1,650	82.0	78.0			USER	User Defined	103.3	No	No	
3	473,610	4,927,151	244	Tower3	Yes	VESTAS	V82 - 60Hz	1,650	82.0	78.0	107.0		USER	User Defined	103.3	No	No	

Calculation Results

Sound Level

Noise sensitive area	No.	Name	UTM WGS84 Zone: 19			Demands		Sound Level		Demands fulfilled ?	
			East	North	Z	Noise	Distance	From WTGs	Noise	Distance	All
					[m]	[dB(A)]	[m]	[dB(A)]			
A	Phil Bloomstein	98 Deer Hill Rd	473,756	4,927,446	215	45.0	320	44.0	Yes	Yes	Yes
B	Robert Gerrish	35 Deer Hill Rd	473,464	4,927,532	226	45.0	320	42.9	Yes	Yes	Yes
C	Jeff Keating	166 Sibley Rd	473,007	4,927,369	241	45.0	320	40.9	Yes	Yes	Yes
D	Steve Bennett	130 Sibley Rd	472,623	4,927,585	220	45.0	320	34.2	Yes	Yes	Yes
E	Avia Haven	418 N. Palermo Rd	471,235	4,927,617	180	45.0	320	24.7	Yes	Yes	Yes
F	Carrie & Steve Bennett	62 Bennett Lane	472,419	4,927,092	224	45.0	320	34.8	Yes	Yes	Yes
G	Bill Pickford	132 Goosepecker Ridge	475,495	4,926,786	207	45.0	320	26.0	Yes	Yes	Yes
H	Lyn Hadnyack	200 Beaver Ridge Road	472,069	4,925,148	252	45.0	320	25.6	Yes	Yes	Yes
I	Reed & Heidi Brugger	15 Deer Hill Rd	474,431	4,927,778	165	45.0	320	32.1	Yes	Yes	Yes
J	David & Maryan Bennett	24 Bennett Lane	472,613	4,927,378	234	45.0	320	35.5	Yes	Yes	Yes
K	Mathew Asrienne Benneett		472,326	4,927,164	217	45.0	320	33.5	Yes	Yes	Yes
L	Robert and Jean Clark		472,817	4,927,449	236	45.0	320	37.3	Yes	Yes	Yes
M	Property Boundary D		473,176	4,926,616	275	55.0	107	52.3	Yes	Yes	Yes
N	Property Boundary C		473,303	4,926,977	264	55.0	107	52.7	Yes	Yes	Yes
O	Property Boundary A		473,465	4,927,172	247	55.0	107	54.0	Yes	Yes	Yes
P	Property Boundary B		473,498	4,927,226	245	55.0	107	53.1	Yes	Yes	Yes

Distances (m)

WTG			
NSA	1	2	3
A	1124	528	329
B	1060	470	408
C	834	483	641
D	1146	921	1078
E	2147	2220	2420

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WTG

NSA	1	2	3
F	871	967	1192
G	2416	2128	1920
H	1727	2329	2527
I	1824	1263	1033
J	966	832	1023
K	989	1064	1284
L	951	684	847
M	114	499	689
N	486	124	353
O	735	130	147
P	798	193	135