

Project: **CompetitiveEnergyFinal** Description: GE 1.5sle - 104.0 dB(A) Printed/Page: 10/17/2006 4:35 PM / 1
 Licensed user: **Renewable Energy Research Lab, University of Massachusetts**
 160 Governors Drive
 US-AMHURST, MA 01003
 2969
 Calculated: 10/17/2006 4:26 PM/2.4.0.57

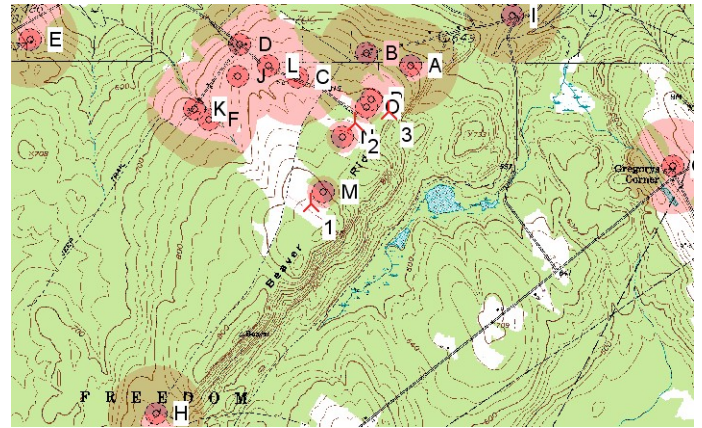
DECIBEL - Main Result

Calculation: GE 1.5sle - 104.0 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				WTG type			Noise data								
East	North	Z	Row	Valid	Manufact.	Type	Power	Diam.	Height	Circle radius	Creator	Name	LwA,ref	Pure tones	Octave data
			data/Description				[kW]	[m]	[m]	[m]			[dB(A)]		
1	473,092	4,926,539	280	Yes	GE WIND ENERGY	GE 1.5sle - 60Hz	1,500	0.0	80.0		USER	User Defined	104.0	No	No
2	473,386	4,927,069	256	Yes	GE WIND ENERGY	GE 1.5sle - 60Hz	1,500	0.0	80.0		USER	User Defined	104.0	No	No
3	473,610	4,927,151	244	Yes	GE WIND ENERGY	GE 1.5sle - 60Hz	1,500	0.0	80.0	107.0	USER	User Defined	104.0	No	No

Calculation Results

Sound Level

Noise sensitive area		UTM WGS84 Zone: 19			Demands		Sound Level	Demands fulfilled ?		
No.	Name	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	44.8	Yes	Yes	Yes
B	Robert Gerrish 35 Deer Hill Rd	473,464	4,927,532	226	45.0	320	43.7	Yes	Yes	Yes
C	Jeff Keating 166 Sibley Rd	473,007	4,927,369	241	45.0	320	41.6	Yes	Yes	Yes
D	Steve Bennett 130 Sibley Rd	472,623	4,927,585	220	45.0	320	34.9	Yes	Yes	Yes
E	Avia Haven 418 N. Palermo Rd	471,235	4,927,617	180	45.0	320	25.4	Yes	Yes	Yes
F	Carrie & Steve Bennett 62 Bennett Lane	472,419	4,927,092	224	45.0	320	35.5	Yes	Yes	Yes
G	Bill Pickford 132 Goosepecker Ridge	475,495	4,926,786	207	45.0	320	26.7	Yes	Yes	Yes
H	Lyn Hadnyack 200 Beaver Ridge Road	472,069	4,925,148	252	45.0	320	26.3	Yes	Yes	Yes
I	Reed & Heidi Brugger 15 Deer Hill Rd	474,431	4,927,778	165	45.0	320	32.8	Yes	Yes	Yes
J	David & Maryan Bennett 24 Bennett Lane	472,613	4,927,378	234	45.0	320	36.2	Yes	Yes	Yes
K	Mathew Asrienne Benneett	472,326	4,927,164	217	45.0	320	34.3	Yes	Yes	Yes
L	Robert and Jean Clark	472,817	4,927,449	236	45.0	320	38.1	Yes	Yes	Yes
M	Property Boundary D	473,176	4,926,616	275	55.0	107	53.0	Yes	Yes	Yes
N	Property Boundary C	473,303	4,926,977	264	55.0	107	53.3	Yes	Yes	Yes
O	Property Boundary A	473,465	4,927,172	247	55.0	107	54.6	Yes	Yes	Yes
P	Property Boundary B	473,498	4,927,226	245	55.0	107	53.7	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