
Appendix E

Transformer Noise NEMA Ratings

Table 8
Audible Sound Levels for Single- and Three-Phase Transformers and Autotransformers, Equivalent Two-Winding Rating, MV·A⁽¹⁾

Average sound level, dB A-weighted	High voltage maximum operating kV								
	Up to 72.5			123 and 145			170 and 245		
	a	b	c	a	b	c	a	b	c
60	1.5								
61	2.0								
62	2.5								
63	3.0								
64	4.0								
65	5.0								
66	6.0								
67	7.5								
68	10	7.5							
69	12.5	9.4		7.5					
70	15	12.5		10	7.5		7.5		
71	20	16.7		12.5	9.4		10	7.5	
72	25	20	20.8	15	12.5		12.5	9.4	
73	30	26.7	25	20	16.7		15	12.5	
74	40	33.3	33.3	25	20	20.8	20	16.7	
75	50	40	41.7	30	26.7	25	25	20	20.8
76	60	53.3	50	40	33.3	33.3	30	26.7	25
77	80	66.7	66.7	50	40	41.7	40	33.3	33.3
78	100	80	83.3	60	53.3	50	50	40	41.7
79	125	107	100	80	66.7	66.7	60	53.3	50
80	150	133	133	100	80	83.3	80	66.7	66.7
81	200	167	167	125	107	100	100	80	83.3
82	250	200	200	150	133	133	125	107	100
83	300	267	250	200	167	167	150	133	133
84	400	333	300	250	200	200	200	167	167
85	500	400	400	300	267	250	250	200	200
86	600	533	500	400	333	300	300	267	250
87		667	600	500	400	400	400	333	300
88		800	800	600	533	500	500	400	400
89			1000		667	600	600	533	500
90					800	800		667	600
91						1000		800	800
92									1000
93									
94									
95									

(Continued)

Table 8 (Concluded)

Average sound level, dB A-weighted	High voltage maximum operating kV								
	300			362			420 to 765		
	a	b	c	a	b	c	a	b	c
60									
61									
62									
63									
64									
65									
66									
67									
68									
69									
70									
71									
72									
73	12.5								
74	15			12.5					
75	20	16.7		15			12.5		
76	25	20	20.8	20	16.7		15		
77	30	26.7	25	25	20	20.8	20	16.7	
78	40	33.3	33.3	30	26.7	25	25	20	20.8
79	50	40	41.7	40	33.3	33.3	30	26.7	25
80	60	53.3	50	50	40	41.7	40	33.3	33.3
81	80	66.7	66.7	60	53.3	50	50	40	41.7
82	100	80	83.3	80	66.7	66.7	60	53.3	50
83	125	107	100	100	80	83.3	80	66.7	66.7
84	150	133	133	125	107	100	100	80	83.3
85	200	167	167	150	133	133	125	107	100
86	250	200	200	200	167	167	150	133	133
87	300	267	250	250	200	200	200	167	167
88	400	333	300	300	267	250	250	200	200
89	500	400	400	400	333	300	300	267	250
90	600	533	500	500	400	400	400	333	300
91		667	600	600	533	500	500	400	400
92		800	800		667	600	600	533	500
93			1000		800	800		667	600
94						1000		800	800
95									1000

Notes:

- (1) The equivalent two-winding rating* is one half the sum of the rating of all windings using the principal tap. When a tertiary (stabilizing) winding is present, either with a known rating or "buried", add 17.5% (35% ÷ 2) or half the rating of the tertiary (whichever is larger) to the otherwise calculated equivalent rating of the transformer. For autotransformers use ((N-1) ÷ N) × rated power of the autotransformer for the autoconnected portion (N is the overall ratio of the autotransformer). For intermediate ratings, use the average sound level of the next highest rating.
 - (2) For ratings less than those shown in Table 8, use the dB A-weighted value for the lowest given rating.
 - (3) For cooling designations, see Clauses 6.5 and 6.6.
 - (4) Columns with heading
 - (a) "a" are applicable to cooling designations: ONAN; ONWF;
 - (b) "b" are applicable to cooling designations: ONAF; OFAF (first stage of auxiliary cooling); and
 - (c) "c" are applicable to cooling designations: ONAF; OFAF or ODAF (second stage of auxiliary cooling and single OFAF or ODAF ratings).
 - (5) For OFWF cooling, use Column "c" minus 1 dB A-weighted.
- *The base rating is different from equivalent two-winding rating. Base rating is the equivalent ONAN rating only.

4.4 Loading capabilities

4.4.1

The loading capabilities of transformers shall be in accordance with ANSI/IEEE C57.91.

4.4.2

Leads, terminals, and switches shall not limit the loading capability.

4.5 Off-circuit voltage taps

4.5.1

Transformers without taps are the standard. Taps are included as an option in Clause 10(g).

4.5.2

High-voltage taps, unless otherwise specified, shall be $\pm 2.5\%$ and $\pm 5\%$ of the rated voltage.

4.5.3

When a transformer is connected on a tap below rated voltage, the kV•A capacity shall be reduced in direct proportion to the voltage of the tap. When a transformer is connected on a tap above rated voltage, the capacity shall be the rated kV•A of the transformer.

4.6 Insulation class and preferred voltages

4.6.1 Preferred high-voltage ratings and required BIL ratings

The preferred high-voltage ratings, required BIL ratings, and associated high-voltage terminal components shall be as specified in Table 2.

4.6.2 Preferred low-voltage ratings and required BIL ratings

The preferred low-voltage ratings and the required BIL ratings shall be as specified in Table 3.

4.7 Operating voltage range

Transformers shall be capable of operating continuously at rated kV•A at 10% above or 5% below rated voltage of the connected tap, but not necessarily within the specified performance limits.

4.8 Radio interference

Transformers shall be designed to operate without causing radio interference to exceed the limits set forth in Table 4 when tested in accordance with CAN3-C108.3.1.

4.9 Audible sound

Transformers shall be designed so that the audible sound level, when operated at rated voltage and measured in accordance with ANSI/IEEE C57.12.90, shall not exceed the sound levels specified in Table 5.

4.10 Short-circuit capabilities

4.10.1 General

Transformers shall be built to withstand the mechanical and thermal stresses caused by the short-circuit currents and their corresponding duration as shown in Table 6. Impedance values need not be limited to the minimum values implied by this table except as modified by Clause 4.10.2 when the impedance is over 4%.

Table 5
Audible sound levels
 (See Clause 4.9.)

Transformer size, kV•A	Audible sound level, dBA
75	51
150 –300	55
500	56
750 –1000	58
1500	60
2000	61
2500	62
3000	63

Table 6
Short-circuit capability
 (See Clauses 4.10.1 and 4.10.2.)

Transformer size, kV•A	Withstand capability per unit of base current (symmetrical)	Duration in cycles
75	40	48
150–300	35	60
500–3000	25	120

Table 7
Minimum transformer impedance
 (See Clause 4.11.)

Transformer size, kV•A	Minimum transformer impedance, %
0–150	1.8
225 –300	2.0
500	3.0
750–1000	4.0
>1000	5.0

Table 7-28. Approximate overall PWL in dB of generators, excluding the noise of the driver unit.

Generator Speed, rpm	Overall Sound Power Level, dB							
	Rating of Generator, MW							
	0.2	0.5	1	2	5	10	20	50
600	95	99	102	105	109	112	115	119
1200	97	101	104	107	111	114	117	121
1800	98	102	105	108	112	115	118	122
2400	99	103	106	109	113	116	119	123
3600	100	104	107	110	114	117	120	124
4800	101	105	108	111	115	118	121	125

specified positions. The NEMA sound level for a transformer can be provided by the manufacturer. On the basis of field studies of many transformer installations, the PWL in octave bands has been related to the NEMA rating and the area of the four side walls of the unit. This relationship is expressed by Equation 7-23:

$$L_w = \text{NEMA rating} + 10 \log A + C \quad \text{US units}$$

$$L_w = \text{NEMA rating} + 10 \log A + C + 10 \quad \text{SI units}$$

(7-23)

where "NEMA rating" is the A-weighted sound level of the transformer provided by the manufacturer, obtained in accordance with NEMA Standards Publication No. TR 1-1968, *A* is the total surface area of the four side walls of the transformer in ft² (m²), and *C* is an octave band correction that has different values for different uses, as shown in Table 7-30.

If the exact dimensions of the transformer are not known, an approximation will suffice. If in doubt, estimate the area on the high side. An error of 25% in area will produce a change of only 1 dB in the PWL. Select the most nearly applicable *C* value from Table 7-30. The *C*₁ value assumes normal radiation of sound. The *C*₂ value should be used in regular-shaped confined spaces where standing waves will very likely occur, which typically may produce 6 dB higher sound levels at the transformer harmonic frequencies of 120, 240, 360, 480, and 600 Hz (for 60-Hz line frequency; or other sound frequencies for other line frequencies). Actually, the sound power level of the transformer does not increase in this location, but the sound analysis procedure is more readily handled by presuming that the sound power is increased. The *C*₃ value is an approximation of the noise of a transformer that has grown noisier (by about 10 dB) during its lifetime. This happens occa-

Table 7-29. Frequency adjustments in dB for generators, without drive unit: Subtract these values from the overall PWL (Table 7-28) to obtain octave band and A-weighted PWLs.

Octave Frequency Band, Hz	Value to be Subtracted from Overall PWL, dB
31	11
63	8
125	7
250	7
500	7
1000	9
2000	11
4000	14
8000	19
A-weighted (dBA)	4

sionally when the laminations or tie-bolts become loose, and the transformer begins to buzz or rattle. In a highly critical location, it might be wise to use this value. All the Table 7-30 values assume that the transformer initially meets the quoted NEMA sound level rating. Field measurements have shown that transformers may actually have A-weighted sound levels that range from a few decibels (2 or 3 dB) above to as much as 5 or 6 dB below the quoted NEMA value. Quieted transformers that contain various forms of noise control treatments can be pur-

chased at as much as 15 to 20 dB below normal NEMA ratings. If a quieter transformer is purchased and used, insert in Equation 7-23 the lowered sound level rating in place of the regular NEMA rating, and then select the appropriate corrections from Table 7-30.

Table 7-30. Octave band corrections in dB to be used in Equation 7-23 for obtaining PWL of transformers in different installation conditions. See notes for details.

Octave Frequency Band, Hz	Octave Band Corrections, dB		
	C ₁ , see Note 1	C ₂ , see Note 2	C ₃ , see Note 3
31	-11	-11	-11
63	-5	-2	-2
125	-3	+3	+3
250	-8	-2	+2
500	-8	-2	+2
1000	-14	-11	-4
2000	-19	-19	-9
4000	-24	-24	-14
8000	-31	-31	-21

Note 1. Use C₁ for outdoor location or for indoor location in a large mechanical room (over about 5000 ft³ or 140 m³) containing many other pieces of mechanical equipment that serve as obstacles to diffuse sound and breakup standing waves.

Note 2. Use C₂ for indoor locations in transformer vaults or small rooms (under about 5000 ft³ or 140 m³) with parallel walls and relatively few other large-size obstacles that can diffuse sound and breakup standing waves.

Note 3. Use C₃ for any location where a serious noise problem would result if the transformer should become noisy above its NEMA rating, following its installation and initial period of use.

7-22. MULTIPLE SOURCES

When an assembly of equipment is built up from components, such as those listed in this chapter, the PWL or the normalized 3-ft (0.9-m) distance SPL values of the component parts can be added together, band by band, by decibel addition to obtain the total sound for the assembly. Examples of such combinations are a motor-pump, a fan housing, and a fan-drive motor, a steam turbine and a centrifugal

compressor, etc. If the SPL at 3 ft (0.9 m) is given for one source and the PWL is given for another source, the values should first be converted to similar forms, either SPL or PWL. Conversion from PWL to SPL at the normalized conditions used in the manual [3-ft (0.9-m) distance and 800-ft² (74-m²) Room Constant] is done by using Equation 4-3 and Figure 4-2 or Table 4-4. Conversion from SPL (at the normalized conditions) to PWL uses the same material but in reverse order; that is, the PWL is calculated from given SPL data.

7-23. NOISE SPECIFICATIONS

The noise level estimates given in this manual will probably equal or exceed the actual noise levels of approximately 80 to 90% of all those types of machinery that will be encountered in typical building use. In many cases, actual noise levels may fall 3 to 6 dB (or more) below the estimates. Thus, there appears to be no shortage of available equipment that will fall at or below the estimated noise levels given in the manual, and it would not be discriminatory or unreasonable to specify that purchased equipment for a particular building be required not to exceed the estimated values given here for that equipment. This is especially true if the actual acoustic design of a wall or floor or room treatment is dependent upon one or two particularly noisy pieces of equipment. A noise specification would not be necessary for relatively quiet equipment that does not dictate noise control design for the MER or the building.

A. WAIVER. If a noise level specification is required to be met for a particular piece of equipment, and this becomes a "hardship" on the manufacturer or the owner in terms of costs or availability, the noise specification could be waived, depending on the response of all the bidders. If some bidders agree to meet the specification while others do not, this could be a valid basis for selecting the quieter equipment. If no bidders can meet the specification, the specification can be waived, but it may be necessary to reevaluate the noise control requirements of the equipment room, if this particular equipment is so noisy that it is responsible for the noise design in the first place. Of course, it is the primary purpose of this manual to prevent just such situations as this, as too many waivers would negate the value of the noise evaluation as a part of the design phase of the building. If the equipment measured for this study represents a fair sampling, it is likely that most of the equipment would meet a noise specification.

Appendix F

CadnaA Configuration Settings

Output from Receiver R15

Configuration	
Parameter	Value
General	
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (m)	3000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (m)	1000.00
Min. Length of Section (m)	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	0.00
Night-time Penalty (dB)	0.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	2
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rvcr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	
	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (°C)	10
rel. Humidity (%)	70
Ground Absorption G	0.70
Wind Speed for Dir. (m/s)	3.0
Roads (???)	
Railways (???)	
Aircraft (???)	
Strictly acc. to AzB	

Receiver
 Name: (untitled)
 ID: R15
 X: 369827.31
 Y: 4906078.57
 Z: 4.50

Point Source, ISO 9613, Name: "H1T", ID: "H1T"

Nr.	X (m)	Y (m)	Z (m)	Refl.	Freq. (Hz)	LxT dB(A)	LxN dB(A)	K0 (dB)	Dc (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	LrT dB(A)	LrN dB(A)
1	369688.15	4906177.70	1.80	0	32	-39.4	-39.4	0.0	0.0	55.6	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	-92.1	-92.1
2	369688.15	4906177.70	1.80	0	63	54.2	54.2	0.0	0.0	55.6	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	1.5	1.5
3	369688.15	4906177.70	1.80	0	125	66.3	66.3	0.0	0.0	55.6	0.1	2.0	0.0	0.0	0.0	0.0	-0.0	8.6	8.6
4	369688.15	4906177.70	1.80	0	250	68.8	68.8	0.0	0.0	55.6	0.2	4.4	0.0	0.0	0.0	0.0	-0.0	8.6	8.6
5	369688.15	4906177.70	1.80	0	500	74.2	74.2	0.0	0.0	55.6	0.3	1.2	0.0	0.0	0.0	0.0	-0.0	17.0	17.0
6	369688.15	4906177.70	1.80	0	1000	71.4	71.4	0.0	0.0	55.6	0.6	-0.7	0.0	0.0	0.0	0.0	-0.0	15.8	15.8
7	369688.15	4906177.70	1.80	0	2000	67.6	67.6	0.0	0.0	55.6	1.7	-0.9	0.0	0.0	0.0	0.0	-0.0	11.2	11.2
8	369688.15	4906177.70	1.80	0	4000	62.4	62.4	0.0	0.0	55.6	5.6	-0.9	0.0	0.0	0.0	0.0	-0.0	2.0	2.0
9	369688.15	4906177.70	1.80	0	8000	53.3	53.3	0.0	0.0	55.6	20.0	-0.9	0.0	0.0	0.0	0.0	-0.0	-21.4	-21.4

Point Source, ISO 9613, Name: "H111", ID: "H111"

Nr.	X (m)	Y (m)	Z (m)	Refl.	Freq. (Hz)	LxT dB(A)	LxN dB(A)	K0 (dB)	Dc (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	LrT dB(A)	LrN dB(A)
1	369686.86	4906172.98	2.50	0	32	-39.4	-39.4	0.0	0.0	55.6	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	-92.0	-92.0
2	369686.86	4906172.98	2.50	0	63	57.2	57.2	0.0	0.0	55.6	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	4.6	4.6
3	369686.86	4906172.98	2.50	0	125	72.5	72.5	0.0	0.0	55.6	0.1	2.3	0.0	0.0	0.0	0.0	-0.0	14.6	14.6
4	369686.86	4906172.98	2.50	0	250	71.2	71.2	0.0	0.0	55.6	0.2	3.3	0.0	0.0	0.0	0.0	-0.0	12.1	12.1
5	369686.86	4906172.98	2.50	0	500	75.8	75.8	0.0	0.0	55.6	0.3	-0.4	0.0	0.0	0.0	0.0	-0.0	20.3	20.3
6	369686.86	4906172.98	2.50	0	1000	75.0	75.0	0.0	0.0	55.6	0.6	-0.9	0.0	0.0	0.0	0.0	-0.0	19.7	19.7
7	369686.86	4906172.98	2.50	0	2000	71.3	71.3	0.0	0.0	55.6	1.6	-0.9	0.0	0.0	0.0	0.0	-0.0	15.0	15.0
8	369686.86	4906172.98	2.50	0	4000	69.3	69.3	0.0	0.0	55.6	5.5	-0.9	0.0	0.0	0.0	0.0	-0.0	9.1	9.1
9	369686.86	4906172.98	2.50	0	8000	72.1	72.1	0.0	0.0	55.6	19.8	-0.9	0.0	0.0	0.0	0.0	-0.0	-2.3	-2.3

Point Source, ISO 9613, Name: "H112", ID: "H112"

Nr.	X (m)	Y (m)	Z (m)	Refl.	Freq. (Hz)	LxT dB(A)	LxN dB(A)	K0 (dB)	Dc (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	LrT dB(A)	LrN dB(A)
1	369689.41	4906172.99	2.50	0	32	-39.4	-39.4	0.0	0.0	55.5	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	-91.9	-91.9
2	369689.41	4906172.99	2.50	0	63	57.2	57.2	0.0	0.0	55.5	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	4.7	4.7
3	369689.41	4906172.99	2.50	0	125	72.5	72.5	0.0	0.0	55.5	0.1	2.2	0.0	0.0	0.0	0.0	-0.0	14.7	14.7
4	369689.41	4906172.99	2.50	0	250	71.2	71.2	0.0	0.0	55.5	0.2	3.3	0.0	0.0	0.0	0.0	-0.0	12.2	12.2
5	369689.41	4906172.99	2.50	0	500	75.8	75.8	0.0	0.0	55.5	0.3	-0.4	0.0	0.0	0.0	0.0	-0.0	20.4	20.4
6	369689.41	4906172.99	2.50	0	1000	75.0	75.0	0.0	0.0	55.5	0.6	-0.9	0.0	0.0	0.0	0.0	-0.0	19.8	19.8
7	369689.41	4906172.99	2.50	0	2000	71.3	71.3	0.0	0.0	55.5	1.6	-0.9	0.0	0.0	0.0	0.0	-0.0	15.1	15.1
8	369689.41	4906172.99	2.50	0	4000	69.3	69.3	0.0	0.0	55.5	5.5	-0.9	0.0	0.0	0.0	0.0	-0.0	9.3	9.3
9	369689.41	4906172.99	2.50	0	8000	72.1	72.1	0.0	0.0	55.5	19.5	-0.9	0.0	0.0	0.0	0.0	-0.0	-2.0	-2.0

Point Source, ISO 9613, Name: "H2T", ID: "H2T"

Nr.	X (m)	Y (m)	Z (m)	Refl.	Freq. (Hz)	LxT dB(A)	LxN dB(A)	K0 (dB)	Dc (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	LrT dB(A)	LrN dB(A)
1	369506.40	4906177.70	1.80	0	32	-39.4	-39.4	0.0	0.0	61.5	0.0	-4.3	0.0	0.0	0.0	0.0	-0.0	-96.6	-96.6
2	369506.40	4906177.70	1.80	0	63	54.2	54.2	0.0	0.0	61.5	0.0	-4.3	0.0	0.0	0.0	0.0	-0.0	-3.0	-3.0
3	369506.40	4906177.70	1.80	0	125	66.3	66.3	0.0	0.0	61.5	0.1	2.3	0.0	0.0	0.0	0.0	-0.0	2.3	2.3
4	369506.40	4906177.70	1.80	0	250	68.8	68.8	0.0	0.0	61.5	0.4	4.2	0.0	0.0	0.0	0.0	-0.0	2.8	2.8
5	369506.40	4906177.70	1.80	0	500	74.2	74.2	0.0	0.0	61.5	0.7	0.9	0.0	0.0	0.0	0.0	-0.0	11.1	11.1
6	369506.40	4906177.70	1.80	0	1000	71.4	71.4	0.0	0.0	61.5	1.2	-1.1	0.0	0.0	0.0	0.0	-0.0	9.8	9.8
7	369506.40	4906177.70	1.80	0	2000	67.6	67.6	0.0	0.0	61.5	3.3	-1.3	0.0	0.0	0.0	0.0	-0.0	4.1	4.1
8	369506.40	4906177.70	1.80	0	4000	62.4	62.4	0.0	0.0	61.5	11.0	-1.3	0.0	0.0	0.0	0.0	-0.0	-8.8	-8.8
9	369506.40	4906177.70	1.80	0	8000	53.3	53.3	0.0	0.0	61.5	39.3	-1.3	0.0	0.0	0.0	0.0	-0.0	-46.2	-46.2

Point Source, ISO 9613, Name: "H211", ID: "H211"

Nr.	X (m)	Y (m)	Z (m)	Refl.	Freq. (Hz)	LxT dB(A)	LxN dB(A)	K0 (dB)	Dc (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	LrT dB(A)	LrN dB(A)
1	369505.12	4906172.98	2.50	0	32	-39.4	-39.4	0.0	0.0	61.5	0.0	-4.1	0.0	0.0	0.0	0.0	-0.0	-96.8	-96.8

Point Source, ISO 9613, Name: "H211", ID: "H211"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
2	369505.12	4906172.98	2.50	0	63	57.2	57.2	0.0	0.0	61.5	0.0	-4.1	0.0	0.0	0.0	0.0	-0.0	-0.2	-0.2
3	369505.12	4906172.98	2.50	0	125	72.5	72.5	0.0	0.0	61.5	0.1	2.6	0.0	0.0	0.0	0.0	-0.0	8.3	8.3
4	369505.12	4906172.98	2.50	0	250	71.2	71.2	0.0	0.0	61.5	0.4	3.2	0.0	0.0	0.0	0.0	-0.0	6.2	6.2
5	369505.12	4906172.98	2.50	0	500	75.8	75.8	0.0	0.0	61.5	0.7	-0.7	0.0	0.0	0.0	0.0	-0.0	14.3	14.3
6	369505.12	4906172.98	2.50	0	1000	75.0	75.0	0.0	0.0	61.5	1.2	-1.2	0.0	0.0	0.0	0.0	-0.0	13.5	13.5
7	369505.12	4906172.98	2.50	0	2000	71.3	71.3	0.0	0.0	61.5	3.2	-1.2	0.0	0.0	0.0	0.0	-0.0	7.8	7.8
8	369505.12	4906172.98	2.50	0	4000	69.3	69.3	0.0	0.0	61.5	11.0	-1.2	0.0	0.0	0.0	0.0	-0.0	-2.0	-2.0
9	369505.12	4906172.98	2.50	0	8000	72.1	72.1	0.0	0.0	61.5	39.2	-1.2	0.0	0.0	0.0	0.0	-0.0	-27.4	-27.4

Point Source, ISO 9613, Name: "H212", ID: "H212"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369507.66	4906172.99	2.50	0	32	-39.4	-39.4	0.0	0.0	61.5	0.0	-4.1	0.0	0.0	0.0	0.0	-0.0	-96.8	-96.8
2	369507.66	4906172.99	2.50	0	63	57.2	57.2	0.0	0.0	61.5	0.0	-4.1	0.0	0.0	0.0	0.0	-0.0	-0.2	-0.2
3	369507.66	4906172.99	2.50	0	125	72.5	72.5	0.0	0.0	61.5	0.1	2.6	0.0	0.0	0.0	0.0	-0.0	8.3	8.3
4	369507.66	4906172.99	2.50	0	250	71.2	71.2	0.0	0.0	61.5	0.4	3.2	0.0	0.0	0.0	0.0	-0.0	6.2	6.2
5	369507.66	4906172.99	2.50	0	500	75.8	75.8	0.0	0.0	61.5	0.6	-0.7	0.0	0.0	0.0	0.0	-0.0	14.4	14.4
6	369507.66	4906172.99	2.50	0	1000	75.0	75.0	0.0	0.0	61.5	1.2	-1.2	0.0	0.0	0.0	0.0	-0.0	13.5	13.5
7	369507.66	4906172.99	2.50	0	2000	71.3	71.3	0.0	0.0	61.5	3.2	-1.2	0.0	0.0	0.0	0.0	-0.0	7.9	7.9
8	369507.66	4906172.99	2.50	0	4000	69.3	69.3	0.0	0.0	61.5	10.9	-1.2	0.0	0.0	0.0	0.0	-0.0	-1.9	-1.9
9	369507.66	4906172.99	2.50	0	8000	72.1	72.1	0.0	0.0	61.5	39.0	-1.2	0.0	0.0	0.0	0.0	-0.0	-27.1	-27.1

Point Source, ISO 9613, Name: "H3T", ID: "H3T"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369324.66	4906177.70	1.80	0	32	-39.4	-39.4	0.0	0.0	65.2	0.0	-4.9	0.0	0.0	0.0	0.0	-0.0	-99.7	-99.7
2	369324.66	4906177.70	1.80	0	63	54.2	54.2	0.0	0.0	65.2	0.1	-4.9	0.0	0.0	0.0	0.0	-0.0	-6.2	-6.2
3	369324.66	4906177.70	1.80	0	125	66.3	66.3	0.0	0.0	65.2	0.2	3.1	0.0	0.0	0.0	0.0	-0.0	-2.2	-2.2
4	369324.66	4906177.70	1.80	0	250	68.8	68.8	0.0	0.0	65.2	0.5	4.0	0.0	0.0	0.0	0.0	-0.0	-0.9	-0.9
5	369324.66	4906177.70	1.80	0	500	74.2	74.2	0.0	0.0	65.2	1.0	0.7	0.0	0.0	0.0	0.0	-0.0	7.3	7.3
6	369324.66	4906177.70	1.80	0	1000	71.4	71.4	0.0	0.0	65.2	1.9	-1.3	0.0	0.0	0.0	0.0	-0.0	5.6	5.6
7	369324.66	4906177.70	1.80	0	2000	67.6	67.6	0.0	0.0	65.2	5.0	-1.5	0.0	0.0	0.0	0.0	-0.0	-1.1	-1.1
8	369324.66	4906177.70	1.80	0	4000	62.4	62.4	0.0	0.0	65.2	16.8	-1.5	0.0	0.0	0.0	0.0	-0.0	-18.1	-18.1
9	369324.66	4906177.70	1.80	0	8000	53.3	53.3	0.0	0.0	65.2	59.9	-1.5	0.0	0.0	0.0	0.0	-0.0	-70.3	-70.3

Point Source, ISO 9613, Name: "H311", ID: "H311"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369323.38	4906172.98	2.50	0	32	-39.4	-39.4	0.0	0.0	65.2	0.0	-4.8	0.0	0.0	0.0	0.0	-0.0	-99.8	-99.8
2	369323.38	4906172.98	2.50	0	63	57.2	57.2	0.0	0.0	65.2	0.1	-4.8	0.0	0.0	0.0	0.0	-0.0	-3.3	-3.3
3	369323.38	4906172.98	2.50	0	125	72.5	72.5	0.0	0.0	65.2	0.2	3.1	0.0	0.0	0.0	0.0	-0.0	4.0	4.0
4	369323.38	4906172.98	2.50	0	250	71.2	71.2	0.0	0.0	65.2	0.5	3.0	0.0	0.0	0.0	0.0	-0.0	2.5	2.5
5	369323.38	4906172.98	2.50	0	500	75.8	75.8	0.0	0.0	65.2	1.0	-0.9	0.0	0.0	0.0	0.0	-0.0	10.5	10.5
6	369323.38	4906172.98	2.50	0	1000	75.0	75.0	0.0	0.0	65.2	1.9	-1.4	0.0	0.0	0.0	0.0	-0.0	9.4	9.4
7	369323.38	4906172.98	2.50	0	2000	71.3	71.3	0.0	0.0	65.2	5.0	-1.4	0.0	0.0	0.0	0.0	-0.0	2.6	2.6
8	369323.38	4906172.98	2.50	0	4000	69.3	69.3	0.0	0.0	65.2	16.8	-1.4	0.0	0.0	0.0	0.0	-0.0	-11.3	-11.3
9	369323.38	4906172.98	2.50	0	8000	72.1	72.1	0.0	0.0	65.2	59.9	-1.4	0.0	0.0	0.0	0.0	-0.0	-51.6	-51.6

Point Source, ISO 9613, Name: "H312", ID: "H312"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369325.92	4906172.99	2.50	0	32	-39.4	-39.4	0.0	0.0	65.1	0.0	-4.8	0.0	0.0	0.0	0.0	-0.0	-99.8	-99.8
2	369325.92	4906172.99	2.50	0	63	57.2	57.2	0.0	0.0	65.1	0.1	-4.8	0.0	0.0	0.0	0.0	-0.0	-3.3	-3.3
3	369325.92	4906172.99	2.50	0	125	72.5	72.5	0.0	0.0	65.1	0.2	3.1	0.0	0.0	0.0	0.0	-0.0	4.0	4.0
4	369325.92	4906172.99	2.50	0	250	71.2	71.2	0.0	0.0	65.1	0.5	3.0	0.0	0.0	0.0	0.0	-0.0	2.5	2.5
5	369325.92	4906172.99	2.50	0	500	75.8	75.8	0.0	0.0	65.1	1.0	-0.9	0.0	0.0	0.0	0.0	-0.0	10.5	10.5
6	369325.92	4906172.99	2.50	0	1000	75.0	75.0	0.0	0.0	65.1	1.9	-1.4	0.0	0.0	0.0	0.0	-0.0	9.4	9.4
7	369325.92	4906172.99	2.50	0	2000	71.3	71.3	0.0	0.0	65.1	4.9	-1.4	0.0	0.0	0.0	0.0	-0.0	2.6	2.6
8	369325.92	4906172.99	2.50	0	4000	69.3	69.3	0.0	0.0	65.1	16.7	-1.4	0.0	0.0	0.0	0.0	-0.0	-11.1	-11.1
9	369325.92	4906172.99	2.50	0	8000	72.1	72.1	0.0	0.0	65.1	59.6	-1.4	0.0	0.0	0.0	0.0	-0.0	-51.3	-51.3

Point Source, ISO 9613, Name: "H4T", ID: "H4T"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369418.57	4906582.71	1.80	0	32	-39.4	-39.4	0.0	0.0	67.3	0.0	-5.1	0.0	0.0	0.0	0.0	-0.0	-101.5	-101.5
2	369418.57	4906582.71	1.80	0	63	54.2	54.2	0.0	0.0	67.3	0.1	-5.1	0.0	0.0	0.0	0.0	-0.0	-8.0	-8.0
3	369418.57	4906582.71	1.80	0	125	66.3	66.3	0.0	0.0	67.3	0.3	3.6	0.0	0.0	0.0	0.0	-0.0	-4.8	-4.8
4	369418.57	4906582.71	1.80	0	250	68.8	68.8	0.0	0.0	67.3	0.7	3.9	0.0	0.0	0.0	0.0	-0.0	-3.0	-3.0
5	369418.57	4906582.71	1.80	0	500	74.2	74.2	0.0	0.0	67.3	1.3	0.7	0.0	0.0	0.0	0.0	-0.0	5.0	5.0
6	369418.57	4906582.71	1.80	0	1000	71.4	71.4	0.0	0.0	67.3	2.4	-1.4	0.0	0.0	0.0	0.0	-0.0	3.1	3.1
7	369418.57	4906582.71	1.80	0	2000	67.6	67.6	0.0	0.0	67.3	6.3	-1.5	0.0	0.0	0.0	0.0	-0.0	-4.4	-4.4
8	369418.57	4906582.71	1.80	0	4000	62.4	62.4	0.0	0.0	67.3	21.3	-1.5	0.0	0.0	0.0	0.0	-0.0	-24.6	-24.6
9	369418.57	4906582.71	1.80	0	8000	53.3	53.3	0.0	0.0	67.3	75.9	-1.5	0.0	0.0	0.0	0.0	-0.0	-88.3	-88.3

Point Source, ISO 9613, Name: "H4I1", ID: "H4I1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369417.29	4906577.99	2.50	0	32	-39.4	-39.4	0.0	0.0	67.2	0.0	-5.0	0.0	0.0	0.0	0.0	-0.0	-101.6	-101.6
2	369417.29	4906577.99	2.50	0	63	57.2	57.2	0.0	0.0	67.2	0.1	-5.0	0.0	0.0	0.0	0.0	-0.0	-5.1	-5.1
3	369417.29	4906577.99	2.50	0	125	72.5	72.5	0.0	0.0	67.2	0.3	3.5	0.0	0.0	0.0	0.0	-0.0	1.5	1.5
4	369417.29	4906577.99	2.50	0	250	71.2	71.2	0.0	0.0	67.2	0.7	2.9	0.0	0.0	0.0	0.0	-0.0	0.4	0.4
5	369417.29	4906577.99	2.50	0	500	75.8	75.8	0.0	0.0	67.2	1.3	-1.0	0.0	0.0	0.0	0.0	-0.0	8.3	8.3
6	369417.29	4906577.99	2.50	0	1000	75.0	75.0	0.0	0.0	67.2	2.4	-1.5	0.0	0.0	0.0	0.0	-0.0	6.9	6.9
7	369417.29	4906577.99	2.50	0	2000	71.3	71.3	0.0	0.0	67.2	6.2	-1.5	0.0	0.0	0.0	0.0	-0.0	-0.6	-0.6
8	369417.29	4906577.99	2.50	0	4000	69.3	69.3	0.0	0.0	67.2	21.2	-1.5	0.0	0.0	0.0	0.0	-0.0	-17.6	-17.6
9	369417.29	4906577.99	2.50	0	8000	72.1	72.1	0.0	0.0	67.2	75.5	-1.5	0.0	0.0	0.0	0.0	-0.0	-69.1	-69.1

Point Source, ISO 9613, Name: "H4I2", ID: "H4I2"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369419.83	4906578.00	2.50	0	32	-39.4	-39.4	0.0	0.0	67.2	0.0	-5.0	0.0	0.0	0.0	0.0	-0.0	-101.6	-101.6
2	369419.83	4906578.00	2.50	0	63	57.2	57.2	0.0	0.0	67.2	0.1	-5.0	0.0	0.0	0.0	0.0	-0.0	-5.0	-5.0
3	369419.83	4906578.00	2.50	0	125	72.5	72.5	0.0	0.0	67.2	0.3	3.5	0.0	0.0	0.0	0.0	-0.0	1.5	1.5
4	369419.83	4906578.00	2.50	0	250	71.2	71.2	0.0	0.0	67.2	0.7	2.9	0.0	0.0	0.0	0.0	-0.0	0.5	0.5
5	369419.83	4906578.00	2.50	0	500	75.8	75.8	0.0	0.0	67.2	1.2	-1.0	0.0	0.0	0.0	0.0	-0.0	8.3	8.3
6	369419.83	4906578.00	2.50	0	1000	75.0	75.0	0.0	0.0	67.2	2.4	-1.5	0.0	0.0	0.0	0.0	-0.0	7.0	7.0
7	369419.83	4906578.00	2.50	0	2000	71.3	71.3	0.0	0.0	67.2	6.2	-1.5	0.0	0.0	0.0	0.0	-0.0	-0.6	-0.6
8	369419.83	4906578.00	2.50	0	4000	69.3	69.3	0.0	0.0	67.2	21.1	-1.5	0.0	0.0	0.0	0.0	-0.0	-17.5	-17.5
9	369419.83	4906578.00	2.50	0	8000	72.1	72.1	0.0	0.0	67.2	75.3	-1.5	0.0	0.0	0.0	0.0	-0.0	-68.9	-68.9

Point Source, ISO 9613, Name: "H5T", ID: "H5T"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369875.97	4906582.71	1.80	0	32	-39.4	-39.4	0.0	0.0	65.1	0.0	-4.9	0.0	0.0	0.0	0.0	-0.0	-99.6	-99.6
2	369875.97	4906582.71	1.80	0	63	54.2	54.2	0.0	0.0	65.1	0.1	-4.9	0.0	0.0	0.0	0.0	-0.0	-6.1	-6.1
3	369875.97	4906582.71	1.80	0	125	66.3	66.3	0.0	0.0	65.1	0.2	3.0	0.0	0.0	0.0	0.0	-0.0	-2.0	-2.0
4	369875.97	4906582.71	1.80	0	250	68.8	68.8	0.0	0.0	65.1	0.5	4.0	0.0	0.0	0.0	0.0	-0.0	-0.8	-0.8
5	369875.97	4906582.71	1.80	0	500	74.2	74.2	0.0	0.0	65.1	1.0	0.7	0.0	0.0	0.0	0.0	-0.0	7.4	7.4
6	369875.97	4906582.71	1.80	0	1000	71.4	71.4	0.0	0.0	65.1	1.9	-1.3	0.0	0.0	0.0	0.0	-0.0	5.7	5.7
7	369875.97	4906582.71	1.80	0	2000	67.6	67.6	0.0	0.0	65.1	4.9	-1.5	0.0	0.0	0.0	0.0	-0.0	-0.9	-0.9
8	369875.97	4906582.71	1.80	0	4000	62.4	62.4	0.0	0.0	65.1	16.6	-1.5	0.0	0.0	0.0	0.0	-0.0	-17.8	-17.8
9	369875.97	4906582.71	1.80	0	8000	53.3	53.3	0.0	0.0	65.1	59.2	-1.5	0.0	0.0	0.0	0.0	-0.0	-69.5	-69.5

Point Source, ISO 9613, Name: "H5I1", ID: "H5I1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369874.69	4906577.99	2.50	0	32	-39.4	-39.4	0.0	0.0	65.0	0.0	-4.7	0.0	0.0	0.0	0.0	-0.0	-99.7	-99.7
2	369874.69	4906577.99	2.50	0	63	57.2	57.2	0.0	0.0	65.0	0.1	-4.7	0.0	0.0	0.0	0.0	-0.0	-3.1	-3.1
3	369874.69	4906577.99	2.50	0	125	72.5	72.5	0.0	0.0	65.0	0.2	3.1	0.0	0.0	0.0	0.0	-0.0	4.2	4.2
4	369874.69	4906577.99	2.50	0	250	71.2	71.2	0.0	0.0	65.0	0.5	3.0	0.0	0.0	0.0	0.0	-0.0	2.7	2.7
5	369874.69	4906577.99	2.50	0	500	75.8	75.8	0.0	0.0	65.0	1.0	-0.9	0.0	0.0	0.0	0.0	-0.0	10.7	10.7
6	369874.69	4906577.99	2.50	0	1000	75.0	75.0	0.0	0.0	65.0	1.8	-1.4	0.0	0.0	0.0	0.0	-0.0	9.6	9.6
7	369874.69	4906577.99	2.50	0	2000	71.3	71.3	0.0	0.0	65.0	4.8	-1.4	0.0	0.0	0.0	0.0	-0.0	2.9	2.9
8	369874.69	4906577.99	2.50	0	4000	69.3	69.3	0.0	0.0	65.0	16.4	-1.4	0.0	0.0	0.0	0.0	-0.0	-10.7	-10.7
9	369874.69	4906577.99	2.50	0	8000	72.1	72.1	0.0	0.0	65.0	58.6	-1.4	0.0	0.0	0.0	0.0	-0.0	-50.1	-50.1

Point Source, ISO 9613, Name: "H5I2", ID: "H5I2"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369877.23	4906578.00	2.50	0	32	-39.4	-39.4	0.0	0.0	65.0	0.0	-4.7	0.0	0.0	0.0	0.0	-0.0	-99.7	-99.7
2	369877.23	4906578.00	2.50	0	63	57.2	57.2	0.0	0.0	65.0	0.1	-4.7	0.0	0.0	0.0	0.0	-0.0	-3.1	-3.1
3	369877.23	4906578.00	2.50	0	125	72.5	72.5	0.0	0.0	65.0	0.2	3.1	0.0	0.0	0.0	0.0	-0.0	4.2	4.2
4	369877.23	4906578.00	2.50	0	250	71.2	71.2	0.0	0.0	65.0	0.5	3.0	0.0	0.0	0.0	0.0	-0.0	2.7	2.7
5	369877.23	4906578.00	2.50	0	500	75.8	75.8	0.0	0.0	65.0	1.0	-0.9	0.0	0.0	0.0	0.0	-0.0	10.7	10.7
6	369877.23	4906578.00	2.50	0	1000	75.0	75.0	0.0	0.0	65.0	1.8	-1.4	0.0	0.0	0.0	0.0	-0.0	9.6	9.6
7	369877.23	4906578.00	2.50	0	2000	71.3	71.3	0.0	0.0	65.0	4.8	-1.4	0.0	0.0	0.0	0.0	-0.0	2.9	2.9
8	369877.23	4906578.00	2.50	0	4000	69.3	69.3	0.0	0.0	65.0	16.4	-1.4	0.0	0.0	0.0	0.0	-0.0	-10.7	-10.7
9	369877.23	4906578.00	2.50	0	8000	72.1	72.1	0.0	0.0	65.0	58.7	-1.4	0.0	0.0	0.0	0.0	-0.0	-50.1	-50.1

Point Source, ISO 9613, Name: "H6T", ID: "H6T"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369770.53	4906421.73	1.80	0	32	-39.4	-39.4	0.0	0.0	61.8	0.0	-4.4	0.0	0.0	0.0	0.0	-0.0	-96.9	-96.9
2	369770.53	4906421.73	1.80	0	63	54.2	54.2	0.0	0.0	61.8	0.0	-4.4	0.0	0.0	0.0	0.0	-0.0	-3.3	-3.3
3	369770.53	4906421.73	1.80	0	125	66.3	66.3	0.0	0.0	61.8	0.1	2.4	0.0	0.0	0.0	0.0	-0.0	2.0	2.0
4	369770.53	4906421.73	1.80	0	250	68.8	68.8	0.0	0.0	61.8	0.4	4.1	0.0	0.0	0.0	0.0	-0.0	2.5	2.5
5	369770.53	4906421.73	1.80	0	500	74.2	74.2	0.0	0.0	61.8	0.7	0.9	0.0	0.0	0.0	0.0	-0.0	10.8	10.8
6	369770.53	4906421.73	1.80	0	1000	71.4	71.4	0.0	0.0	61.8	1.3	-1.1	0.0	0.0	0.0	0.0	-0.0	9.4	9.4
7	369770.53	4906421.73	1.80	0	2000	67.6	67.6	0.0	0.0	61.8	3.4	-1.3	0.0	0.0	0.0	0.0	-0.0	3.7	3.7
8	369770.53	4906421.73	1.80	0	4000	62.4	62.4	0.0	0.0	61.8	11.4	-1.3	0.0	0.0	0.0	0.0	-0.0	-9.5	-9.5
9	369770.53	4906421.73	1.80	0	8000	53.3	53.3	0.0	0.0	61.8	40.7	-1.3	0.0	0.0	0.0	0.0	-0.0	-47.9	-47.9

Point Source, ISO 9613, Name: "H6I1", ID: "H6I1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369769.25	4906417.01	2.50	0	32	-39.4	-39.4	0.0	0.0	61.7	0.0	-4.2	0.0	0.0	0.0	0.0	-0.0	-97.0	-97.0
2	369769.25	4906417.01	2.50	0	63	57.2	57.2	0.0	0.0	61.7	0.0	-4.2	0.0	0.0	0.0	0.0	-0.0	-0.4	-0.4
3	369769.25	4906417.01	2.50	0	125	72.5	72.5	0.0	0.0	61.7	0.1	2.6	0.0	0.0	0.0	0.0	-0.0	8.1	8.1
4	369769.25	4906417.01	2.50	0	250	71.2	71.2	0.0	0.0	61.7	0.4	3.1	0.0	0.0	0.0	0.0	-0.0	6.0	6.0
5	369769.25	4906417.01	2.50	0	500	75.8	75.8	0.0	0.0	61.7	0.7	-0.7	0.0	0.0	0.0	0.0	-0.0	14.1	14.1
6	369769.25	4906417.01	2.50	0	1000	75.0	75.0	0.0	0.0	61.7	1.3	-1.2	0.0	0.0	0.0	0.0	-0.0	13.3	13.3
7	369769.25	4906417.01	2.50	0	2000	71.3	71.3	0.0	0.0	61.7	3.3	-1.3	0.0	0.0	0.0	0.0	-0.0	7.5	7.5
8	369769.25	4906417.01	2.50	0	4000	69.3	69.3	0.0	0.0	61.7	11.3	-1.3	0.0	0.0	0.0	0.0	-0.0	-2.4	-2.4
9	369769.25	4906417.01	2.50	0	8000	72.1	72.1	0.0	0.0	61.7	40.1	-1.3	0.0	0.0	0.0	0.0	-0.0	-28.5	-28.5

Point Source, ISO 9613, Name: "H6I2", ID: "H6I2"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369771.79	4906417.02	2.50	0	32	-39.4	-39.4	0.0	0.0	61.7	0.0	-4.2	0.0	0.0	0.0	0.0	-0.0	-97.0	-97.0
2	369771.79	4906417.02	2.50	0	63	57.2	57.2	0.0	0.0	61.7	0.0	-4.2	0.0	0.0	0.0	0.0	-0.0	-0.4	-0.4
3	369771.79	4906417.02	2.50	0	125	72.5	72.5	0.0	0.0	61.7	0.1	2.6	0.0	0.0	0.0	0.0	-0.0	8.1	8.1
4	369771.79	4906417.02	2.50	0	250	71.2	71.2	0.0	0.0	61.7	0.4	3.1	0.0	0.0	0.0	0.0	-0.0	6.0	6.0
5	369771.79	4906417.02	2.50	0	500	75.8	75.8	0.0	0.0	61.7	0.7	-0.7	0.0	0.0	0.0	0.0	-0.0	14.1	14.1
6	369771.79	4906417.02	2.50	0	1000	75.0	75.0	0.0	0.0	61.7	1.3	-1.2	0.0	0.0	0.0	0.0	-0.0	13.3	13.3
7	369771.79	4906417.02	2.50	0	2000	71.3	71.3	0.0	0.0	61.7	3.3	-1.3	0.0	0.0	0.0	0.0	-0.0	7.5	7.5
8	369771.79	4906417.02	2.50	0	4000	69.3	69.3	0.0	0.0	61.7	11.2	-1.3	0.0	0.0	0.0	0.0	-0.0	-2.4	-2.4
9	369771.79	4906417.02	2.50	0	8000	72.1	72.1	0.0	0.0	61.7	40.1	-1.3	0.0	0.0	0.0	0.0	-0.0	-28.4	-28.4

Point Source, ISO 9613, Name: "H7T", ID: "H7T"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369723.57	4906582.71	1.80	0	32	-39.4	-39.4	0.0	0.0	65.2	0.0	-4.9	0.0	0.0	0.0	0.0	-0.0	-99.8	-99.8
2	369723.57	4906582.71	1.80	0	63	54.2	54.2	0.0	0.0	65.2	0.1	-4.9	0.0	0.0	0.0	0.0	-0.0	-6.2	-6.2
3	369723.57	4906582.71	1.80	0	125	66.3	66.3	0.0	0.0	65.2	0.2	3.1	0.0	0.0	0.0	0.0	-0.0	-2.2	-2.2
4	369723.57	4906582.71	1.80	0	250	68.8	68.8	0.0	0.0	65.2	0.5	4.0	0.0	0.0	0.0	0.0	-0.0	-1.0	-1.0
5	369723.57	4906582.71	1.80	0	500	74.2	74.2	0.0	0.0	65.2	1.0	0.7	0.0	0.0	0.0	0.0	-0.0	7.2	7.2
6	369723.57	4906582.71	1.80	0	1000	71.4	71.4	0.0	0.0	65.2	1.9	-1.3	0.0	0.0	0.0	0.0	-0.0	5.6	5.6
7	369723.57	4906582.71	1.80	0	2000	67.6	67.6	0.0	0.0	65.2	5.0	-1.5	0.0	0.0	0.0	0.0	-0.0	-1.1	-1.1
8	369723.57	4906582.71	1.80	0	4000	62.4	62.4	0.0	0.0	65.2	16.9	-1.5	0.0	0.0	0.0	0.0	-0.0	-18.2	-18.2
9	369723.57	4906582.71	1.80	0	8000	53.3	53.3	0.0	0.0	65.2	60.2	-1.5	0.0	0.0	0.0	0.0	-0.0	-70.6	-70.6

Point Source, ISO 9613, Name: "H711", ID: "H711"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369722.29	4906577.99	2.50	0	32	-39.4	-39.4	0.0	0.0	65.2	0.0	-4.8	0.0	0.0	0.0	0.0	-0.0	-99.8	-99.8
2	369722.29	4906577.99	2.50	0	63	57.2	57.2	0.0	0.0	65.2	0.1	-4.8	0.0	0.0	0.0	0.0	-0.0	-3.3	-3.3
3	369722.29	4906577.99	2.50	0	125	72.5	72.5	0.0	0.0	65.2	0.2	3.1	0.0	0.0	0.0	0.0	-0.0	4.0	4.0
4	369722.29	4906577.99	2.50	0	250	71.2	71.2	0.0	0.0	65.2	0.5	3.0	0.0	0.0	0.0	0.0	-0.0	2.5	2.5
5	369722.29	4906577.99	2.50	0	500	75.8	75.8	0.0	0.0	65.2	1.0	-0.9	0.0	0.0	0.0	0.0	-0.0	10.5	10.5
6	369722.29	4906577.99	2.50	0	1000	75.0	75.0	0.0	0.0	65.2	1.9	-1.4	0.0	0.0	0.0	0.0	-0.0	9.4	9.4
7	369722.29	4906577.99	2.50	0	2000	71.3	71.3	0.0	0.0	65.2	4.9	-1.4	0.0	0.0	0.0	0.0	-0.0	2.6	2.6
8	369722.29	4906577.99	2.50	0	4000	69.3	69.3	0.0	0.0	65.2	16.7	-1.4	0.0	0.0	0.0	0.0	-0.0	-11.2	-11.2
9	369722.29	4906577.99	2.50	0	8000	72.1	72.1	0.0	0.0	65.2	59.6	-1.4	0.0	0.0	0.0	0.0	-0.0	-51.3	-51.3

Point Source, ISO 9613, Name: "H712", ID: "H712"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369724.83	4906578.00	2.50	0	32	-39.4	-39.4	0.0	0.0	65.1	0.0	-4.8	0.0	0.0	0.0	0.0	-0.0	-99.8	-99.8
2	369724.83	4906578.00	2.50	0	63	57.2	57.2	0.0	0.0	65.1	0.1	-4.8	0.0	0.0	0.0	0.0	-0.0	-3.3	-3.3
3	369724.83	4906578.00	2.50	0	125	72.5	72.5	0.0	0.0	65.1	0.2	3.1	0.0	0.0	0.0	0.0	-0.0	4.0	4.0
4	369724.83	4906578.00	2.50	0	250	71.2	71.2	0.0	0.0	65.1	0.5	3.0	0.0	0.0	0.0	0.0	-0.0	2.5	2.5
5	369724.83	4906578.00	2.50	0	500	75.8	75.8	0.0	0.0	65.1	1.0	-0.9	0.0	0.0	0.0	0.0	-0.0	10.5	10.5
6	369724.83	4906578.00	2.50	0	1000	75.0	75.0	0.0	0.0	65.1	1.9	-1.4	0.0	0.0	0.0	0.0	-0.0	9.4	9.4
7	369724.83	4906578.00	2.50	0	2000	71.3	71.3	0.0	0.0	65.1	4.9	-1.4	0.0	0.0	0.0	0.0	-0.0	2.6	2.6
8	369724.83	4906578.00	2.50	0	4000	69.3	69.3	0.0	0.0	65.1	16.7	-1.4	0.0	0.0	0.0	0.0	-0.0	-11.1	-11.1
9	369724.83	4906578.00	2.50	0	8000	72.1	72.1	0.0	0.0	65.1	59.6	-1.4	0.0	0.0	0.0	0.0	-0.0	-51.2	-51.2

Point Source, ISO 9613, Name: "H8T", ID: "H8T"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369577.05	4906582.71	1.80	0	32	-39.4	-39.4	0.0	0.0	66.0	0.0	-5.0	0.0	0.0	0.0	0.0	-0.0	-100.4	-100.4
2	369577.05	4906582.71	1.80	0	63	54.2	54.2	0.0	0.0	66.0	0.1	-5.0	0.0	0.0	0.0	0.0	-0.0	-6.9	-6.9
3	369577.05	4906582.71	1.80	0	125	66.3	66.3	0.0	0.0	66.0	0.2	3.3	0.0	0.0	0.0	0.0	-0.0	-3.2	-3.2
4	369577.05	4906582.71	1.80	0	250	68.8	68.8	0.0	0.0	66.0	0.6	4.0	0.0	0.0	0.0	0.0	-0.0	-1.8	-1.8
5	369577.05	4906582.71	1.80	0	500	74.2	74.2	0.0	0.0	66.0	1.1	0.7	0.0	0.0	0.0	0.0	-0.0	6.4	6.4
6	369577.05	4906582.71	1.80	0	1000	71.4	71.4	0.0	0.0	66.0	2.1	-1.3	0.0	0.0	0.0	0.0	-0.0	4.6	4.6
7	369577.05	4906582.71	1.80	0	2000	67.6	67.6	0.0	0.0	66.0	5.4	-1.5	0.0	0.0	0.0	0.0	-0.0	-2.3	-2.3
8	369577.05	4906582.71	1.80	0	4000	62.4	62.4	0.0	0.0	66.0	18.4	-1.5	0.0	0.0	0.0	0.0	-0.0	-20.6	-20.6
9	369577.05	4906582.71	1.80	0	8000	53.3	53.3	0.0	0.0	66.0	65.8	-1.5	0.0	0.0	0.0	0.0	-0.0	-77.0	-77.0

Point Source, ISO 9613, Name: "H811", ID: "H811"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369575.77	4906577.99	2.50	0	32	-39.4	-39.4	0.0	0.0	66.0	0.0	-4.9	0.0	0.0	0.0	0.0	-0.0	-100.5	-100.5
2	369575.77	4906577.99	2.50	0	63	57.2	57.2	0.0	0.0	66.0	0.1	-4.9	0.0	0.0	0.0	0.0	-0.0	-3.9	-3.9
3	369575.77	4906577.99	2.50	0	125	72.5	72.5	0.0	0.0	66.0	0.2	3.3	0.0	0.0	0.0	0.0	-0.0	3.0	3.0
4	369575.77	4906577.99	2.50	0	250	71.2	71.2	0.0	0.0	66.0	0.6	2.9	0.0	0.0	0.0	0.0	-0.0	1.7	1.7
5	369575.77	4906577.99	2.50	0	500	75.8	75.8	0.0	0.0	66.0	1.1	-0.9	0.0	0.0	0.0	0.0	-0.0	9.7	9.7
6	369575.77	4906577.99	2.50	0	1000	75.0	75.0	0.0	0.0	66.0	2.0	-1.5	0.0	0.0	0.0	0.0	-0.0	8.5	8.5
7	369575.77	4906577.99	2.50	0	2000	71.3	71.3	0.0	0.0	66.0	5.4	-1.5	0.0	0.0	0.0	0.0	-0.0	1.4	1.4
8	369575.77	4906577.99	2.50	0	4000	69.3	69.3	0.0	0.0	66.0	18.3	-1.5	0.0	0.0	0.0	0.0	-0.0	-13.5	-13.5
9	369575.77	4906577.99	2.50	0	8000	72.1	72.1	0.0	0.0	66.0	65.4	-1.5	0.0	0.0	0.0	0.0	-0.0	-57.8	-57.8

Point Source, ISO 9613, Name: "H812", ID: "H812"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369578.31	4906578.00	2.50	0	32	-39.4	-39.4	0.0	0.0	65.9	0.0	-4.9	0.0	0.0	0.0	0.0	-0.0	-100.5	-100.5
2	369578.31	4906578.00	2.50	0	63	57.2	57.2	0.0	0.0	65.9	0.1	-4.9	0.0	0.0	0.0	0.0	-0.0	-3.9	-3.9
3	369578.31	4906578.00	2.50	0	125	72.5	72.5	0.0	0.0	65.9	0.2	3.3	0.0	0.0	0.0	0.0	-0.0	3.1	3.1
4	369578.31	4906578.00	2.50	0	250	71.2	71.2	0.0	0.0	65.9	0.6	2.9	0.0	0.0	0.0	0.0	-0.0	1.7	1.7
5	369578.31	4906578.00	2.50	0	500	75.8	75.8	0.0	0.0	65.9	1.1	-0.9	0.0	0.0	0.0	0.0	-0.0	9.7	9.7
6	369578.31	4906578.00	2.50	0	1000	75.0	75.0	0.0	0.0	65.9	2.0	-1.5	0.0	0.0	0.0	0.0	-0.0	8.5	8.5
7	369578.31	4906578.00	2.50	0	2000	71.3	71.3	0.0	0.0	65.9	5.4	-1.5	0.0	0.0	0.0	0.0	-0.0	1.4	1.4
8	369578.31	4906578.00	2.50	0	4000	69.3	69.3	0.0	0.0	65.9	18.3	-1.5	0.0	0.0	0.0	0.0	-0.0	-13.5	-13.5
9	369578.31	4906578.00	2.50	0	8000	72.1	72.1	0.0	0.0	65.9	65.2	-1.5	0.0	0.0	0.0	0.0	-0.0	-57.6	-57.6

Point Source, ISO 9613, Name: "H9T", ID: "H9T"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369383.35	4906392.35	1.80	0	32	-39.4	-39.4	0.0	0.0	65.7	0.0	-5.0	0.0	0.0	0.0	0.0	-0.0	-100.2	-100.2
2	369383.35	4906392.35	1.80	0	63	54.2	54.2	0.0	0.0	65.7	0.1	-5.0	0.0	0.0	0.0	0.0	-0.0	-6.6	-6.6
3	369383.35	4906392.35	1.80	0	125	66.3	66.3	0.0	0.0	65.7	0.2	3.2	0.0	0.0	0.0	0.0	-0.0	-2.8	-2.8
4	369383.35	4906392.35	1.80	0	250	68.8	68.8	0.0	0.0	65.7	0.6	4.0	0.0	0.0	0.0	0.0	-0.0	-1.5	-1.5
5	369383.35	4906392.35	1.80	0	500	74.2	74.2	0.0	0.0	65.7	1.1	0.7	0.0	0.0	0.0	0.0	-0.0	6.7	6.7
6	369383.35	4906392.35	1.80	0	1000	71.4	71.4	0.0	0.0	65.7	2.0	-1.3	0.0	0.0	0.0	0.0	-0.0	5.0	5.0
7	369383.35	4906392.35	1.80	0	2000	67.6	67.6	0.0	0.0	65.7	5.3	-1.5	0.0	0.0	0.0	0.0	-0.0	-1.9	-1.9
8	369383.35	4906392.35	1.80	0	4000	62.4	62.4	0.0	0.0	65.7	17.8	-1.5	0.0	0.0	0.0	0.0	-0.0	-19.6	-19.6
9	369383.35	4906392.35	1.80	0	8000	53.3	53.3	0.0	0.0	65.7	63.5	-1.5	0.0	0.0	0.0	0.0	-0.0	-74.5	-74.5

Point Source, ISO 9613, Name: "H9I1", ID: "H9I1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369382.07	4906387.63	2.50	0	32	-39.4	-39.4	0.0	0.0	65.7	0.0	-4.8	0.0	0.0	0.0	0.0	-0.0	-100.3	-100.3
2	369382.07	4906387.63	2.50	0	63	57.2	57.2	0.0	0.0	65.7	0.1	-4.8	0.0	0.0	0.0	0.0	-0.0	-3.7	-3.7
3	369382.07	4906387.63	2.50	0	125	72.5	72.5	0.0	0.0	65.7	0.2	3.2	0.0	0.0	0.0	0.0	-0.0	3.4	3.4
4	369382.07	4906387.63	2.50	0	250	71.2	71.2	0.0	0.0	65.7	0.6	2.9	0.0	0.0	0.0	0.0	-0.0	2.0	2.0
5	369382.07	4906387.63	2.50	0	500	75.8	75.8	0.0	0.0	65.7	1.0	-0.9	0.0	0.0	0.0	0.0	-0.0	10.0	10.0
6	369382.07	4906387.63	2.50	0	1000	75.0	75.0	0.0	0.0	65.7	2.0	-1.4	0.0	0.0	0.0	0.0	-0.0	8.8	8.8
7	369382.07	4906387.63	2.50	0	2000	71.3	71.3	0.0	0.0	65.7	5.2	-1.5	0.0	0.0	0.0	0.0	-0.0	1.8	1.8
8	369382.07	4906387.63	2.50	0	4000	69.3	69.3	0.0	0.0	65.7	17.8	-1.5	0.0	0.0	0.0	0.0	-0.0	-12.7	-12.7
9	369382.07	4906387.63	2.50	0	8000	72.1	72.1	0.0	0.0	65.7	63.3	-1.5	0.0	0.0	0.0	0.0	-0.0	-55.5	-55.5

Point Source, ISO 9613, Name: "H9I2", ID: "H9I2"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369384.61	4906387.64	2.50	0	32	-39.4	-39.4	0.0	0.0	65.6	0.0	-4.8	0.0	0.0	0.0	0.0	-0.0	-100.2	-100.2
2	369384.61	4906387.64	2.50	0	63	57.2	57.2	0.0	0.0	65.6	0.1	-4.8	0.0	0.0	0.0	0.0	-0.0	-3.7	-3.7
3	369384.61	4906387.64	2.50	0	125	72.5	72.5	0.0	0.0	65.6	0.2	3.2	0.0	0.0	0.0	0.0	-0.0	3.4	3.4
4	369384.61	4906387.64	2.50	0	250	71.2	71.2	0.0	0.0	65.6	0.6	2.9	0.0	0.0	0.0	0.0	-0.0	2.0	2.0
5	369384.61	4906387.64	2.50	0	500	75.8	75.8	0.0	0.0	65.6	1.0	-0.9	0.0	0.0	0.0	0.0	-0.0	10.0	10.0
6	369384.61	4906387.64	2.50	0	1000	75.0	75.0	0.0	0.0	65.6	2.0	-1.4	0.0	0.0	0.0	0.0	-0.0	8.8	8.8
7	369384.61	4906387.64	2.50	0	2000	71.3	71.3	0.0	0.0	65.6	5.2	-1.5	0.0	0.0	0.0	0.0	-0.0	1.9	1.9
8	369384.61	4906387.64	2.50	0	4000	69.3	69.3	0.0	0.0	65.6	17.7	-1.5	0.0	0.0	0.0	0.0	-0.0	-12.6	-12.6
9	369384.61	4906387.64	2.50	0	8000	72.1	72.1	0.0	0.0	65.6	63.1	-1.5	0.0	0.0	0.0	0.0	-0.0	-55.2	-55.2

Point Source, ISO 9613, Name: "H10T", ID: "H10T"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369623.79	4906338.69	1.80	0	32	-39.4	-39.4	0.0	0.0	61.4	0.0	-4.3	0.0	0.0	0.0	0.0	-0.0	-96.5	-96.5
2	369623.79	4906338.69	1.80	0	63	54.2	54.2	0.0	0.0	61.4	0.0	-4.3	0.0	0.0	0.0	0.0	-0.0	-2.9	-2.9
3	369623.79	4906338.69	1.80	0	125	66.3	66.3	0.0	0.0	61.4	0.1	2.3	0.0	0.0	0.0	0.0	-0.0	2.5	2.5
4	369623.79	4906338.69	1.80	0	250	68.8	68.8	0.0	0.0	61.4	0.3	4.2	0.0	0.0	0.0	0.0	-0.0	2.9	2.9
5	369623.79	4906338.69	1.80	0	500	74.2	74.2	0.0	0.0	61.4	0.6	0.9	0.0	0.0	0.0	0.0	-0.0	11.3	11.3
6	369623.79	4906338.69	1.80	0	1000	71.4	71.4	0.0	0.0	61.4	1.2	-1.1	0.0	0.0	0.0	0.0	-0.0	9.9	9.9
7	369623.79	4906338.69	1.80	0	2000	67.6	67.6	0.0	0.0	61.4	3.2	-1.3	0.0	0.0	0.0	0.0	-0.0	4.3	4.3
8	369623.79	4906338.69	1.80	0	4000	62.4	62.4	0.0	0.0	61.4	10.8	-1.3	0.0	0.0	0.0	0.0	-0.0	-8.5	-8.5
9	369623.79	4906338.69	1.80	0	8000	53.3	53.3	0.0	0.0	61.4	38.6	-1.3	0.0	0.0	0.0	0.0	-0.0	-45.4	-45.4

Point Source, ISO 9613, Name: "H10I1", ID: "H10I1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369622.51	4906333.97	2.50	0	32	-39.4	-39.4	0.0	0.0	61.3	0.0	-4.1	0.0	0.0	0.0	0.0	-0.0	-96.6	-96.6
2	369622.51	4906333.97	2.50	0	63	57.2	57.2	0.0	0.0	61.3	0.0	-4.1	0.0	0.0	0.0	0.0	-0.0	-0.1	-0.1
3	369622.51	4906333.97	2.50	0	125	72.5	72.5	0.0	0.0	61.3	0.1	2.6	0.0	0.0	0.0	0.0	-0.0	8.5	8.5
4	369622.51	4906333.97	2.50	0	250	71.2	71.2	0.0	0.0	61.3	0.3	3.2	0.0	0.0	0.0	0.0	-0.0	6.4	6.4
5	369622.51	4906333.97	2.50	0	500	75.8	75.8	0.0	0.0	61.3	0.6	-0.7	0.0	0.0	0.0	0.0	-0.0	14.5	14.5
6	369622.51	4906333.97	2.50	0	1000	75.0	75.0	0.0	0.0	61.3	1.2	-1.2	0.0	0.0	0.0	0.0	-0.0	13.7	13.7
7	369622.51	4906333.97	2.50	0	2000	71.3	71.3	0.0	0.0	61.3	3.2	-1.2	0.0	0.0	0.0	0.0	-0.0	8.1	8.1
8	369622.51	4906333.97	2.50	0	4000	69.3	69.3	0.0	0.0	61.3	10.7	-1.2	0.0	0.0	0.0	0.0	-0.0	-1.5	-1.5
9	369622.51	4906333.97	2.50	0	8000	72.1	72.1	0.0	0.0	61.3	38.3	-1.2	0.0	0.0	0.0	0.0	-0.0	-26.2	-26.2

Point Source, ISO 9613, Name: "H1012", ID: "H1012"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369625.05	4906333.98	2.50	0	32	-39.4	-39.4	0.0	0.0	61.3	0.0	-4.1	0.0	0.0	0.0	0.0	-0.0	-96.6	-96.6
2	369625.05	4906333.98	2.50	0	63	57.2	57.2	0.0	0.0	61.3	0.0	-4.1	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0
3	369625.05	4906333.98	2.50	0	125	72.5	72.5	0.0	0.0	61.3	0.1	2.6	0.0	0.0	0.0	0.0	-0.0	8.6	8.6
4	369625.05	4906333.98	2.50	0	250	71.2	71.2	0.0	0.0	61.3	0.3	3.2	0.0	0.0	0.0	0.0	-0.0	6.4	6.4
5	369625.05	4906333.98	2.50	0	500	75.8	75.8	0.0	0.0	61.3	0.6	-0.7	0.0	0.0	0.0	0.0	-0.0	14.6	14.6
6	369625.05	4906333.98	2.50	0	1000	75.0	75.0	0.0	0.0	61.3	1.2	-1.2	0.0	0.0	0.0	0.0	-0.0	13.8	13.8
7	369625.05	4906333.98	2.50	0	2000	71.3	71.3	0.0	0.0	61.3	3.1	-1.2	0.0	0.0	0.0	0.0	-0.0	8.1	8.1
8	369625.05	4906333.98	2.50	0	4000	69.3	69.3	0.0	0.0	61.3	10.7	-1.2	0.0	0.0	0.0	0.0	-0.0	-1.4	-1.4
9	369625.05	4906333.98	2.50	0	8000	72.1	72.1	0.0	0.0	61.3	38.1	-1.2	0.0	0.0	0.0	0.0	-0.0	-26.0	-26.0

Point Source, ISO 9613, Name: "Substation Transformer", ID: "ST"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	369702.87	4906057.04	2.50	0	32	-39.4	-39.4	0.0	0.0	53.0	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	-89.4	-89.4
2	369702.87	4906057.04	2.50	0	63	65.8	65.8	0.0	0.0	53.0	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	15.8	15.8
3	369702.87	4906057.04	2.50	0	125	77.9	77.9	0.0	0.0	53.0	0.1	2.0	0.0	0.0	0.0	0.0	-0.0	22.8	22.8
4	369702.87	4906057.04	2.50	0	250	80.4	80.4	0.0	0.0	53.0	0.1	3.1	0.0	0.0	0.0	0.0	-0.0	24.1	24.1
5	369702.87	4906057.04	2.50	0	500	85.8	85.8	0.0	0.0	53.0	0.2	-0.4	0.0	0.0	0.0	0.0	-0.0	32.9	32.9
6	369702.87	4906057.04	2.50	0	1000	83.0	83.0	0.0	0.0	53.0	0.5	-0.9	0.0	0.0	0.0	0.0	-0.0	30.4	30.4
7	369702.87	4906057.04	2.50	0	2000	79.2	79.2	0.0	0.0	53.0	1.2	-0.9	0.0	0.0	0.0	0.0	-0.0	25.9	25.9
8	369702.87	4906057.04	2.50	0	4000	74.0	74.0	0.0	0.0	53.0	4.1	-0.9	0.0	0.0	0.0	0.0	-0.0	17.7	17.7
9	369702.87	4906057.04	2.50	0	8000	64.9	64.9	0.0	0.0	53.0	14.8	-0.9	0.0	0.0	0.0	0.0	-0.0	-2.0	-2.0

Appendix G

CadnaA Electronic Modeling Files

Electronic File sent by email

APPENDIX G

VACANT LOTS EXPERIENCE 35 DBA OR HIGHER FROM PROJECT

362000

364000

366000

368000

370000

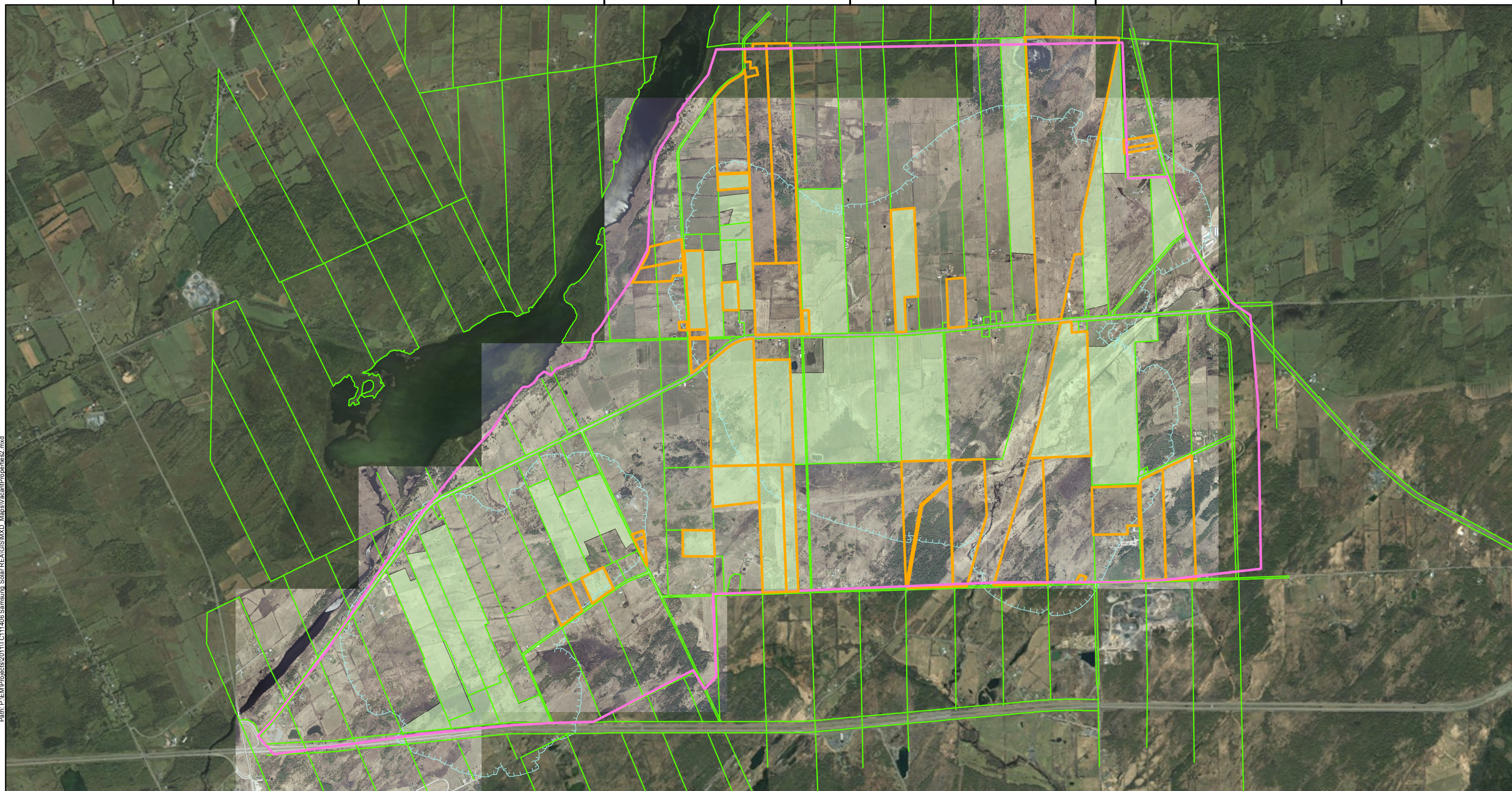
372000

4910000

4908000

4906000

Path: P:\EM\Projects\2011\TC111406\Samsung_Solar_REALGIS\MXD_Maps\VacantProperties2.mxd



Legend

- Property Boundary
- Project Boundary
- Vacant Lot
- 35 dBA Noise Contours
- Participating Property

NOTES:

KINGSTON SOLAR LP



SOL-LUCE KINGSTON PHASE 2

Vacant Lots

Datum: NAD83
Projection: UTM Zone 18N



PROJECT N^o: TC111406

Appendix G

SCALE: 1:30,000

Date: July, 2012



APPENDIX H
POINT OF RECEPTION NOISE IMPACT

Appendix H: Point of Reception Noise Impact



Project: Sol-Luce Kingston Solar PV Energy Project
 Location: Kingston ON

Source ID ⁽¹⁾	Source Description	Point of Reception 1			Point of Reception 2			Point of Reception 3			Point of Reception 4			Point of Reception 5		
		Distance (m)	Sound Level at PoR	Units ⁽²⁾	Distance (m)	Sound Level at PoR	Units ⁽²⁾	Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽²⁾	Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽²⁾	Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽²⁾
P1_U1	MVPP P1_U1	7164	0	dB(A)	7020	0	dB(A)	6892	0	dB(A)	6730	0	dB(A)	6598	0	dB(A)
P1_U2	MVPP P1_U2	7181	0	dB(A)	7035	0	dB(A)	6905	0	dB(A)	6741	0	dB(A)	6608	0	dB(A)
P1_U3	MVPP P1_U3	7197	0	dB(A)	7049	0	dB(A)	6918	0	dB(A)	6752	0	dB(A)	6618	0	dB(A)
P2_U1	MVPP P2_U1	6999	0	dB(A)	6845	0	dB(A)	6711	0	dB(A)	6540	0	dB(A)	6404	0	dB(A)
P3_U1	MVPP P3_U1	6715	0	dB(A)	6563	0	dB(A)	6429	0	dB(A)	6260	0	dB(A)	6124	0	dB(A)
P3_U2	MVPP P3_U2	6629	0	dB(A)	6478	0	dB(A)	6346	0	dB(A)	6179	0	dB(A)	6044	0	dB(A)
P3_U3	MVPP P3_U3	6557	0	dB(A)	6409	0	dB(A)	6278	0	dB(A)	6113	0	dB(A)	5979	0	dB(A)
P3_U4	MVPP P3_U4	6498	0	dB(A)	6353	0	dB(A)	6224	0	dB(A)	6061	0	dB(A)	5928	0	dB(A)
P3_U5	MVPP P3_U5	6439	0	dB(A)	6296	0	dB(A)	6169	0	dB(A)	6008	0	dB(A)	5877	0	dB(A)
P3_U6	MVPP P3_U6	6386	0	dB(A)	6246	0	dB(A)	6121	0	dB(A)	5962	0	dB(A)	5832	0	dB(A)
P4_U1	MVPP P4_U1	6285	0	dB(A)	6125	0	dB(A)	5986	0	dB(A)	5810	0	dB(A)	5671	0	dB(A)
P4_U2	MVPP P4_U2	6214	0	dB(A)	6056	0	dB(A)	5918	0	dB(A)	5744	0	dB(A)	5606	0	dB(A)
P4_U3	MVPP P4_U3	6150	0	dB(A)	5994	0	dB(A)	5857	0	dB(A)	5685	0	dB(A)	5547	0	dB(A)
P4_U4	MVPP P4_U4	6084	0	dB(A)	5929	0	dB(A)	5795	0	dB(A)	5624	0	dB(A)	5487	0	dB(A)
P4_U5	MVPP P4_U5	6019	0	dB(A)	5867	0	dB(A)	5734	0	dB(A)	5565	0	dB(A)	5430	0	dB(A)
P6A_U1	MVPP P6A_U1	4491	0	dB(A)	4327	0	dB(A)	4186	0	dB(A)	4008	0	dB(A)	3868	0	dB(A)
P6A_U2	MVPP P6A_U2	4249	0	dB(A)	4089	0	dB(A)	3950	0	dB(A)	3776	0	dB(A)	3637	0	dB(A)
P6A_U3	MVPP P6A_U3	4460	0	dB(A)	4301	0	dB(A)	4164	0	dB(A)	3990	0	dB(A)	3852	0	dB(A)
P7_9_10_U1	MVPP P7/9/10_U1	4370	0	dB(A)	4191	0	dB(A)	4041	0	dB(A)	3850	0	dB(A)	3707	0	dB(A)
P7_9_10_U2	MVPP P7/9/10_U2	4271	0	dB(A)	4093	0	dB(A)	3943	0	dB(A)	3753	0	dB(A)	3610	0	dB(A)
P7_9_10_U3	MVPP P7/9/10_U3	4167	0	dB(A)	3990	0	dB(A)	3841	0	dB(A)	3653	0	dB(A)	3510	0	dB(A)
P7_9_10_U4	MVPP P7/9/10_U4	4072	0	dB(A)	3897	0	dB(A)	3749	0	dB(A)	3562	0	dB(A)	3419	0	dB(A)
P11A_U3	MVPP P11A_U3	3618	0	dB(A)	3449	0	dB(A)	3305	0	dB(A)	3122	0	dB(A)	2981	0	dB(A)
P12_U1	MVPP P12_U1	6097	0	dB(A)	5980	0	dB(A)	5872	0	dB(A)	5736	0	dB(A)	5619	0	dB(A)
P12_U2	MVPP P12_U2	6074	0	dB(A)	5959	0	dB(A)	5853	0	dB(A)	5720	0	dB(A)	5605	0	dB(A)
P12_U3	MVPP P12_U3	6045	0	dB(A)	5934	0	dB(A)	5831	0	dB(A)	5702	0	dB(A)	5589	0	dB(A)
P12_U4	MVPP P12_U4	6237	0	dB(A)	6121	0	dB(A)	6013	0	dB(A)	5878	0	dB(A)	5762	0	dB(A)
P12_U5	MVPP P12_U5	6198	0	dB(A)	6087	0	dB(A)	5983	0	dB(A)	5852	0	dB(A)	5739	0	dB(A)
P12_U6	MVPP P12_U6	6178	0	dB(A)	6069	0	dB(A)	5967	0	dB(A)	5840	0	dB(A)	5729	0	dB(A)
P12_U7	MVPP P12_U7	6157	0	dB(A)	6052	0	dB(A)	5953	0	dB(A)	5829	0	dB(A)	5719	0	dB(A)
P14A_U1	MVPP P14A_U1	4387	0	dB(A)	4258	0	dB(A)	4142	0	dB(A)	3997	0	dB(A)	3876	0	dB(A)
P14A_U2	MVPP P14A_U2	4423	0	dB(A)	4291	0	dB(A)	4172	0	dB(A)	4024	0	dB(A)	3900	0	dB(A)
P14A_U3	MVPP P14A_U3	4465	0	dB(A)	4329	0	dB(A)	4208	0	dB(A)	4056	0	dB(A)	3930	0	dB(A)
P14A_U4	MVPP P14A_U4	4515	0	dB(A)	4375	0	dB(A)	4251	0	dB(A)	4095	0	dB(A)	3967	0	dB(A)
P14A_U5	MVPP P14A_U5	4544	0	dB(A)	4402	0	dB(A)	4277	0	dB(A)	4119	0	dB(A)	3989	0	dB(A)
P14A_U6	MVPP P14A_U6	4591	0	dB(A)	4446	0	dB(A)	4318	0	dB(A)	4158	0	dB(A)	4026	0	dB(A)
P14A_U7	MVPP P14A_U7	4506	0	dB(A)	4386	0	dB(A)	4277	0	dB(A)	4141	0	dB(A)	4024	0	dB(A)
P14A_U8	MVPP P14A_U8	4536	0	dB(A)	4412	0	dB(A)	4300	0	dB(A)	4160	0	dB(A)	4041	0	dB(A)
P14A_U9	MVPP P14A_U9	4563	0	dB(A)	4436	0	dB(A)	4322	0	dB(A)	4179	0	dB(A)	4058	0	dB(A)
P14A_U10	MVPP P14A_U10	4601	0	dB(A)	4470	0	dB(A)	4353	0	dB(A)	4206	0	dB(A)	4083	0	dB(A)
P14A_U11	MVPP P14A_U11	4642	0	dB(A)	4508	0	dB(A)	4388	0	dB(A)	4238	0	dB(A)	4113	0	dB(A)
P14A_U12	MVPP P14A_U12	4690	0	dB(A)	4553	0	dB(A)	4430	0	dB(A)	4276	0	dB(A)	4149	0	dB(A)
P14A_U13	MVPP P14A_U13	4719	0	dB(A)	4580	0	dB(A)	4455	0	dB(A)	4299	0	dB(A)	4171	0	dB(A)
P14A_U14	MVPP P14A_U14	4765	0	dB(A)	4622	0	dB(A)	4496	0	dB(A)	4337	0	dB(A)	4207	0	dB(A)
P14A_U15	MVPP P14A_U15	4686	0	dB(A)	4567	0	dB(A)	4458	0	dB(A)	4323	0	dB(A)	4207	0	dB(A)
P14A_U16	MVPP P14A_U16	4720	0	dB(A)	4597	0	dB(A)	4485	0	dB(A)	4345	0	dB(A)	4227	0	dB(A)
P14A_U17	MVPP P14A_U17	4760	0	dB(A)	4633	0	dB(A)	4518	0	dB(A)	4374	0	dB(A)	4252	0	dB(A)
P14A_U18	MVPP P14A_U18	4802	0	dB(A)	4670	0	dB(A)	4552	0	dB(A)	4404	0	dB(A)	4281	0	dB(A)

Point of Reception ID
POR01

Point of Reception ID
POR02

Point of Reception ID
POR03

Point of Reception ID
POR04

Point of Reception ID
POR05

Point of Reception Description
House 01

Point of Reception Description
House 02

Point of Reception Description
House 03

Point of Reception Description
House 04

Point of Reception Description
House 05

Point of reception coordinates		
X	Y	Z ⁽³⁾
364166	4905882	136.9

Point of reception coordinates		
X	Y	Z ⁽³⁾
364246	4906051	137.5

Point of reception coordinates		
X	Y	Z ⁽³⁾
364328	4906180	137.3

Point of reception coordinates		
X	Y	Z ⁽³⁾
364435	4906341	137.5

Point of reception coordinates		
X	Y	Z ⁽³⁾
364535	4906443	137.5

Source ID ⁽¹⁾	Source Description
P1_U1	MVPP P1_U1
P1_U2	MVPP P1_U2
P1_U3	MVPP P1_U3
P2_U1	MVPP P2_U1
P3_U1	MVPP P3_U1
P3_U2	MVPP P3_U2
P3_U3	MVPP P3_U3
P3_U4	MVPP P3_U4
P3_U5	MVPP P3_U5
P3_U6	MVPP P3_U6
P4_U1	MVPP P4_U1
P4_U2	MVPP P4_U2
P4_U3	MVPP P4_U3
P4_U4	MVPP P4_U4
P4_U5	MVPP P4_U5
P6A_U1	MVPP P6A_U1
P6A_U2	MVPP P6A_U2
P6A_U3	MVPP P6A_U3
P7_9_10_U1	MVPP P7/9/10_U1
P7_9_10_U2	MVPP P7/9/10_U2
P7_9_10_U3	MVPP P7/9/10_U3
P7_9_10_U4	MVPP P7/9/10_U4
P11A_U3	MVPP P11A_U3
P12_U1	MVPP P12_U1
P12_U2	MVPP P12_U2
P12_U3	MVPP P12_U3
P12_U4	MVPP P12_U4
P12_U5	MVPP P12_U5
P12_U6	MVPP P12_U6
P12_U7	MVPP P12_U7
P14A_U1	MVPP P14A_U1
P14A_U2	MVPP P14A_U2
P14A_U3	MVPP P14A_U3
P14A_U4	MVPP P14A_U4
P14A_U5	MVPP P14A_U5
P14A_U6	MVPP P14A_U6
P14A_U7	MVPP P14A_U7
P14A_U8	MVPP P14A_U8
P14A_U9	MVPP P14A_U9
P14A_U10	MVPP P14A_U10
P14A_U11	MVPP P14A_U11
P14A_U12	MVPP P14A_U12
P14A_U13	MVPP P14A_U13
P14A_U14	MVPP P14A_U14
P14A_U15	MVPP P14A_U15
P14A_U16	MVPP P14A_U16
P14A_U17	MVPP P14A_U17
P14A_U18	MVPP P14A_U18

Appendix H: Point of Reception Noise Impact



Project: Sol-Luce Kingston Solar PV Energy Project
 Location: Kingston ON

		Point of Reception ID POR01			Point of Reception ID POR02			Point of Reception ID POR03			Point of Reception ID POR04			Point of Reception ID POR05				
Point of Reception Description		Point of Reception Description			Point of Reception Description			Point of Reception Description			Point of Reception Description			Point of Reception Description				
House 01		House 02			House 03			House 04			House 05			House 05				
Point of reception coordinates		Point of reception coordinates			Point of reception coordinates			Point of reception coordinates			Point of reception coordinates			Point of reception coordinates				
X Y Z ⁽¹⁾		X Y Z ⁽¹⁾			X Y Z ⁽¹⁾			X Y Z ⁽¹⁾			X Y Z ⁽¹⁾			X Y Z ⁽¹⁾				
364166 4905882 136.9		364246 4906051 137.5			364328 4906180 137.3			364435 4906341 137.5			364535 4906443 137.5			364535 4906443 137.5				
Source ID ⁽¹⁾		Source Description		Point of Reception 1			Point of Reception 2			Point of Reception 3			Point of Reception 4			Point of Reception 5		
		Distance (m)	Sound Level at PoR	Units ⁽²⁾	Distance (m)	Sound Level at PoR	Units ⁽²⁾	Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽²⁾	Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽²⁾	Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽²⁾		
P14A_U19	MVPP P14A_U19	4847	0	dBA	4712	0	dBA	4591	0	dBA	4440	0	dBA	4314	0	dBA		
P14A_U20	MVPP P14A_U20	4899	0	dBA	4760	0	dBA	4637	0	dBA	4482	0	dBA	4354	0	dBA		
P14A_U21	MVPP P14A_U21	4948	0	dBA	4806	0	dBA	4680	0	dBA	4522	0	dBA	4393	0	dBA		
P14B_U1	MVPP P14B_U1	4247	0	dBA	4113	0	dBA	3993	0	dBA	3843	0	dBA	3718	0	dBA		
P14B_U2	MVPP P14B_U2	4288	0	dBA	4150	0	dBA	4027	0	dBA	3874	0	dBA	3747	0	dBA		
P14B_U3	MVPP P14B_U3	4335	0	dBA	4194	0	dBA	4069	0	dBA	3911	0	dBA	3783	0	dBA		
P14B_U4	MVPP P14B_U4	4366	0	dBA	4222	0	dBA	4095	0	dBA	3936	0	dBA	3806	0	dBA		
P14B_U5	MVPP P14B_U5	4418	0	dBA	4272	0	dBA	4143	0	dBA	3980	0	dBA	3848	0	dBA		
P14B_U6	MVPP P14B_U6	4154	0	dBA	4012	0	dBA	3886	0	dBA	3728	0	dBA	3598	0	dBA		
P14B_U7	MVPP P14B_U7	4207	0	dBA	4060	0	dBA	3932	0	dBA	3770	0	dBA	3639	0	dBA		
P14B_U8	MVPP P14B_U8	4279	0	dBA	4129	0	dBA	3998	0	dBA	3832	0	dBA	3699	0	dBA		
P14C_U1	MVPP P14C_U1	3749	0	dBA	3614	0	dBA	3494	0	dBA	3345	0	dBA	3221	0	dBA		
P14C_U2	MVPP P14C_U2	3792	0	dBA	3653	0	dBA	3530	0	dBA	3376	0	dBA	3250	0	dBA		
P14C_U3	MVPP P14C_U3	3829	0	dBA	3687	0	dBA	3562	0	dBA	3405	0	dBA	3277	0	dBA		
P14C_U4	MVPP P14C_U4	3950	0	dBA	3811	0	dBA	3688	0	dBA	3534	0	dBA	3406	0	dBA		
P19_20_U1	MVPP P19/20_U1	1951	15	dBA	1827	16	dBA	1719	17	dBA	1592	17	dBA	1485	18	dBA		
P19_U1	MVPP P19_U1	1975	10	dBA	1842	10	dBA	1726	11	dBA	1588	12	dBA	1473	12	dBA		
P19_U2	MVPP P19_U2	1974	5	dBA	1834	10	dBA	1713	11	dBA	1566	12	dBA	1445	13	dBA		
P19_U3	MVPP P19_U3	1981	5	dBA	1833	10	dBA	1706	11	dBA	1550	12	dBA	1424	13	dBA		
P19_U4	MVPP P19_U4	1778	13	dBA	1642	13	dBA	1525	14	dBA	1384	19	dBA	1270	19	dBA		
P19_U5	MVPP P19_U5	1781	6	dBA	1637	7	dBA	1512	12	dBA	1362	13	dBA	1240	14	dBA		
P20_U1	MVPP P20_U1	1602	17	dBA	1448	18	dBA	1317	19	dBA	1156	20	dBA	1029	21	dBA		
P21_U1	MVPP P21_U1	1060	11	dBA	1095	11	dBA	1127	10	dBA	1193	10	dBA	1234	10	dBA		
P21_U2	MVPP P21_U2	941	22	dBA	961	22	dBA	985	22	dBA	1044	21	dBA	1083	21	dBA		
P21_U3	MVPP P21_U3	846	23	dBA	850	23	dBA	864	23	dBA	916	22	dBA	953	22	dBA		
P21_U4	MVPP P21_U4	726	24	dBA	690	25	dBA	677	25	dBA	706	25	dBA	735	24	dBA		
P21_U5	MVPP P21_U5	683	25	dBA	625	26	dBA	597	26	dBA	614	26	dBA	638	26	dBA		
P21_U6	MVPP P21_U6	649	25	dBA	565	27	dBA	516	28	dBA	513	28	dBA	530	27	dBA		
P21_U7	MVPP P21_U7	632	26	dBA	520	27	dBA	446	29	dBA	416	29	dBA	423	29	dBA		
P21_U8	MVPP P21_U8	633	20	dBA	495	22	dBA	393	24	dBA	326	25	dBA	317	26	dBA		
P21_U9	MVPP P21_U9	662	19	dBA	497	22	dBA	364	19	dBA	233	28	dBA	183	30	dBA		
P22_U1	MVPP P22_U1	936	22	dBA	992	22	dBA	1043	21	dBA	1132	20	dBA	1191	20	dBA		
P22_U2	MVPP P22_U2	799	24	dBA	841	23	dBA	885	23	dBA	971	22	dBA	1030	21	dBA		
P22_U3	MVPP P22_U3	639	26	dBA	656	25	dBA	690	25	dBA	772	24	dBA	834	23	dBA		
P22_U4	MVPP P22_U4	524	27	dBA	502	28	dBA	515	28	dBA	588	26	dBA	652	25	dBA		
P22_U5	MVPP P22_U5	464	27	dBA	394	24	dBA	377	24	dBA	437	23	dBA	503	22	dBA		
P22_U6	MVPP P22_U6	385	24	dBA	240	28	dBA	167	31	dBA	238	28	dBA	341	25	dBA		
P23_U1	MVPP P23_U1	827	23	dBA	920	22	dBA	999	22	dBA	1121	21	dBA	1202	20	dBA		
P23_U2	MVPP P23_U2	694	25	dBA	781	24	dBA	859	23	dBA	983	22	dBA	1067	21	dBA		
P23_U3	MVPP P23_U3	565	27	dBA	641	26	dBA	719	25	dBA	845	23	dBA	934	22	dBA		
P23_U4	MVPP P23_U4	442	29	dBA	504	28	dBA	579	27	dBA	709	25	dBA	804	24	dBA		
P23_U5	MVPP P23_U5	320	32	dBA	347	31	dBA	417	29	dBA	554	27	dBA	658	25	dBA		
P23_U6	MVPP P23_U6	254	27	dBA	217	29	dBA	276	27	dBA	423	23	dBA	538	21	dBA		
P23_U7	MVPP P23_U7	258	27	dBA	117	33	dBA	136	32	dBA	301	26	dBA	430	23	dBA		
P24_U1	MVPP P24_U1	1315	15	dBA	1386	15	dBA	1441	15	dBA	1528	14	dBA	1580	14	dBA		
P24_U2	MVPP P24_U2	1242	16	dBA	1297	16	dBA	1341	15	dBA	1417	15	dBA	1462	14	dBA		
P24_U3	MVPP P24_U3	1464	14	dBA	1511	14	dBA	1546	14	dBA	1609	14	dBA	1642	13	dBA		
TS	Transformer Station	6032	0	dBA	5881	0	dBA	5749	0	dBA	5582	0	dBA	5447	0	dBA		
H1T	Hut 1 Transformer	5530	0	dBA	5444	0	dBA	5360	0	dBA	5256	0	dBA	5160	0	dBA		
H1I1	Hut 1 Inverter 1	5528	0	dBA	5442	0	dBA	5358	0	dBA	5255	0	dBA	5159	0	dBA		
H1I2	Hut 1 Inverter 2	5531	0	dBA	5445	0	dBA	5361	0	dBA	5257	0	dBA	5161	0	dBA		
H2T	Hut 2 Transformer	5348	0	dBA	5262	0	dBA	5178	0	dBA	5074	0	dBA	4978	0	dBA		
H2I1	Hut 2 Inverter 1	5347	0	dBA	5260	0	dBA	5177	0	dBA	5073	0	dBA	4977	0	dBA		
H2I2	Hut 2 Inverter 2	5349	0	dBA	5263	0	dBA	5179	0	dBA	5076	0	dBA	4980	0	dBA		
H3T	Hut 3 Transformer	5167	0	dBA	5080	0	dBA	4996	0	dBA	4893	0	dBA	4797	0	dBA		
H3I1	Hut 3 Inverter 1	5165	0	dBA	5079	0	dBA	4995	0	dBA	4892	0	dBA	4796	0	dBA		
H3I2	Hut 3 Inverter 2	5168	0	dBA	5081	0	dBA	4997	0	dBA	4894	0	dBA	4799	0	dBA		

Appendix H: Point of Reception Noise Impact



Project: Sol-Luce Kingston Solar PV Energy Project
 Location: Kingston ON

Point of Reception ID
POR01

Point of Reception Description
 House 01

Point of reception coordinates		
X	Y	Z ⁽¹⁾
364166	4905882	136.9

Point of Reception ID
POR02

Point of Reception Description
 House 02

Point of reception coordinates		
X	Y	Z ⁽¹⁾
364246	4906051	137.5

Point of Reception ID
POR03

Point of Reception Description
 House 03

Point of reception coordinates		
X	Y	Z ⁽¹⁾
364328	4906180	137.3

Point of Reception ID
POR04

Point of Reception Description
 House 04

Point of reception coordinates		
X	Y	Z ⁽¹⁾
364435	4906341	137.5

Point of Reception ID
POR05

Point of Reception Description
 House 05

Point of reception coordinates		
X	Y	Z ⁽¹⁾
364535	4906443	137.5

Source ID ⁽¹⁾	Source Description
H4T	Hut 4 Transformer
H4I1	Hut 4 Inverter 1
H4I2	Hut 4 Inverter 2
H5T	Hut 5 Transformer
H5I1	Hut 5 Inverter 1
H5I2	Hut 5 Inverter 2
H6T	Hut 6 Transformer
H6I1	Hut 6 Inverter 1
H6I2	Hut 6 Inverter 2
H7T	Hut 7 Transformer
H7I1	Hut 7 Inverter 1
H7I2	Hut 7 Inverter 2
H8T	Hut 8 Transformer
H8I1	Hut 8 Inverter 1
H8I2	Hut 8 Inverter 2
H9T	Hut 9 Transformer
H9I1	Hut 9 Inverter 1
H9I2	Hut 9 Inverter 2
H10T	Hut 10 Transformer
H10I1	Hut 10 Inverter 1
H10I2	Hut 10 Inverter 2
ST	Substation Transformer
Sub	44-kV/10-MVA Substation transformer
Inv1	Sunny Central 1000MV inverter unit
Inv2	Sunny Central 1000MV inverter unit
Inv3	Sunny Central 1000MV inverter unit
Inv4	Sunny Central 1000MV inverter unit
Inv5	Sunny Central 1000MV inverter unit
Inv6	Sunny Central 1000MV inverter unit
Inv7	Sunny Central 1000MV inverter unit
Inv8	Sunny Central 1000MV inverter unit
Inv9	Sunny Central 1000MV inverter unit
Inv10	Sunny Central 1000MV inverter unit

Point of Reception 1		
Distance (m)	Sound Level at PoR	Units ⁽²⁾
5299	0	dBA
5297	0	dBA
5299	0	dBA
5753	0	dBA
5751	0	dBA
5753	0	dBA
5630	0	dBA
5629	0	dBA
5631	0	dBA
5601	0	dBA
5600	0	dBA
5602	0	dBA
5456	0	dBA
5454	0	dBA
5457	0	dBA
5242	0	dBA
5240	0	dBA
5243	0	dBA
5477	0	dBA
5475	0	dBA
5478	0	dBA
5539	0	dBA
3506	0	dBA
3553	0	dBA
3646	0	dBA
3693	0	dBA
3782	0	dBA
3830	0	dBA
3918	0	dBA
3968	0	dBA
4054	0	dBA
4106	0	dBA
4192	0	dBA

Point of Reception 2		
Distance (m)	Sound Level at PoR	Units ⁽²⁾
5200	0	dBA
5198	0	dBA
5200	0	dBA
5655	0	dBA
5653	0	dBA
5656	0	dBA
5537	0	dBA
5535	0	dBA
5538	0	dBA
5503	0	dBA
5502	0	dBA
5504	0	dBA
5357	0	dBA
5356	0	dBA
5358	0	dBA
5149	0	dBA
5147	0	dBA
5150	0	dBA
5385	0	dBA
5384	0	dBA
5386	0	dBA
5457	0	dBA
3574	0	dBA
3631	0	dBA
3717	0	dBA
3772	0	dBA
3856	0	dBA
3911	0	dBA
3994	0	dBA
4051	0	dBA
4131	0	dBA
4191	0	dBA
4272	0	dBA

Point of Reception 3		
Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽²⁾
5106	0	dBA
5104	0	dBA
5107	0	dBA
5562	0	dBA
5561	0	dBA
5563	0	dBA
5447	0	dBA
5446	0	dBA
5449	0	dBA
5410	0	dBA
5409	0	dBA
5411	0	dBA
5264	0	dBA
5262	0	dBA
5265	0	dBA
5059	0	dBA
5058	0	dBA
5060	0	dBA
5298	0	dBA
5296	0	dBA
5299	0	dBA
5376	0	dBA
3618	0	dBA
3682	0	dBA
3764	0	dBA
3825	0	dBA
3903	0	dBA
3965	0	dBA
4043	0	dBA
4106	0	dBA
4182	0	dBA
4247	0	dBA
4323	0	dBA

Point of Reception 4		
Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽²⁾
4990	0	dBA
4988	0	dBA
4991	0	dBA
5447	0	dBA
5445	0	dBA
5448	0	dBA
5336	0	dBA
5335	0	dBA
5338	0	dBA
5294	0	dBA
5293	0	dBA
5295	0	dBA
5148	0	dBA
5146	0	dBA
5149	0	dBA
4949	0	dBA
4948	0	dBA
4950	0	dBA
5189	0	dBA
5188	0	dBA
5190	0	dBA
5276	0	dBA
3679	0	dBA
3752	0	dBA
3828	0	dBA
3896	0	dBA
3969	0	dBA
4038	0	dBA
4110	0	dBA
4180	0	dBA
4251	0	dBA
4322	0	dBA
4394	0	dBA

Point of Reception 5		
Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽²⁾
4886	0	dBA
4884	0	dBA
4887	0	dBA
5343	0	dBA
5341	0	dBA
5344	0	dBA
5236	0	dBA
5234	0	dBA
5237	0	dBA
5190	0	dBA
5189	0	dBA
5192	0	dBA
5044	0	dBA
5043	0	dBA
5045	0	dBA
4849	0	dBA
4847	0	dBA
4850	0	dBA
5090	0	dBA
5089	0	dBA
5091	0	dBA
5182	0	dBA
3704	0	dBA
3784	0	dBA
3854	0	dBA
3929	0	dBA
3997	0	dBA
4071	0	dBA
4139	0	dBA
4214	0	dBA
4280	0	dBA
4357	0	dBA
4424	0	dBA

Appendix H: Point of Reception Noise Impact



Project: Sol-Luce Kingston Solar PV Energy Project
 Location: Kingston ON

Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID
POR06	POR07	POR08	POR09	POR10
Point of Reception Description House 06	Point of Reception Description House 07	Point of Reception Description House 08	Point of Reception Description House 09	Point of Reception Description House 10
Point of reception coordinates	Point of reception coordinates	Point of reception coordinates	Point of reception coordinates	Point of reception coordinates
X Y Z ^[3]	X Y Z ^[3]	X Y Z ^[3]	X Y Z ^[3]	X Y Z ^[3]
365333 4905535 135.5	365290 4905358 132.3	365438 4906947 136.9	365824 4906970 138.5	366076 4906749 141.0

Source ID ^[1]	Source Description
P1_U1	MVPP P1_U1
P1_U2	MVPP P1_U2
P1_U3	MVPP P1_U3
P2_U1	MVPP P2/1_U1
P3_U1	MVPP P3_U1
P3_U2	MVPP P3_U2
P3_U3	MVPP P3_U3
P3_U4	MVPP P3_U4
P3_U5	MVPP P3_U5
P3_U6	MVPP P3_U6
P4_U1	MVPP P4_U1
P4_U2	MVPP P4_U2
P4_U3	MVPP P4_U3
P4_U4	MVPP P4_U4
P4_U5	MVPP P4_U5
P6A_U1	MVPP P6A_U1
P6A_U2	MVPP P6A_U2
P6A_U3	MVPP P6A_U3
P7_9_10_U1	MVPP P7/9/10_U1
P7_9_10_U2	MVPP P7/9/10_U2
P7_9_10_U3	MVPP P7/9/10_U3
P7_9_10_U4	MVPP P7/9/10_U4
P11A_U3	MVPP P11A_U3
P12_U1	MVPP P12_U1
P12_U2	MVPP P12_U2
P12_U3	MVPP P12_U3
P12_U4	MVPP P12_U4
P12_U5	MVPP P12_U5
P12_U6	MVPP P12_U6
P12_U7	MVPP P12_U7
P14A_U1	MVPP P14A_U1
P14A_U2	MVPP P14A_U2
P14A_U3	MVPP P14A_U3
P14A_U4	MVPP P14A_U4
P14A_U5	MVPP P14A_U5
P14A_U6	MVPP P14A_U6
P14A_U7	MVPP P14A_U7
P14A_U8	MVPP P14A_U8
P14A_U9	MVPP P14A_U9
P14A_U10	MVPP P14A_U10
P14A_U11	MVPP P14A_U11
P14A_U12	MVPP P14A_U12
P14A_U13	MVPP P14A_U13
P14A_U14	MVPP P14A_U14
P14A_U15	MVPP P14A_U15
P14A_U16	MVPP P14A_U16
P14A_U17	MVPP P14A_U17
P14A_U18	MVPP P14A_U18

Point of Reception 6		
Distance (m)	Sound Level at PoR ^[3]	Units ^[2]
6317	0	dBA
6351	0	dBA
6382	0	dBA
6232	0	dBA
5941	0	dBA
5837	0	dBA
5745	0	dBA
5669	0	dBA
5590	0	dBA
5519	0	dBA
5593	0	dBA
5503	0	dBA
5421	0	dBA
5335	0	dBA
5250	0	dBA
3880	0	dBA
3606	0	dBA
3796	0	dBA
4013	0	dBA
3890	0	dBA
3760	0	dBA
3640	0	dBA
3120	0	dBA
5090	0	dBA
5055	0	dBA
5007	0	dBA
5225	0	dBA
5164	0	dBA
5131	0	dBA
5095	0	dBA
3473	0	dBA
3532	0	dBA
3599	0	dBA
3675	0	dBA
3719	0	dBA
3789	0	dBA
3536	0	dBA
3587	0	dBA
3632	0	dBA
3693	0	dBA
3758	0	dBA
3831	0	dBA
3874	0	dBA
3942	0	dBA
3706	0	dBA
3763	0	dBA
3829	0	dBA
3894	0	dBA

Point of Reception 7		
Distance (m)	Sound Level at PoR ^[3]	Units ^[2]
6451	0	dBA
6488	0	dBA
6521	0	dBA
6377	0	dBA
6085	0	dBA
5980	0	dBA
5885	0	dBA
5807	0	dBA
5725	0	dBA
5652	0	dBA
5748	0	dBA
5655	0	dBA
5572	0	dBA
5483	0	dBA
5397	0	dBA
4045	0	dBA
3770	0	dBA
3957	0	dBA
4191	0	dBA
4068	0	dBA
3937	0	dBA
3816	0	dBA
3295	0	dBA
5197	0	dBA
5159	0	dBA
5107	0	dBA
5331	0	dBA
5264	0	dBA
5227	0	dBA
5188	0	dBA
3604	0	dBA
3666	0	dBA
3737	0	dBA
3816	0	dBA
3863	0	dBA
3935	0	dBA
3656	0	dBA
3711	0	dBA
3758	0	dBA
3824	0	dBA
3892	0	dBA
3969	0	dBA
4014	0	dBA
4084	0	dBA
3823	0	dBA
3885	0	dBA
3955	0	dBA
4024	0	dBA

Point of Reception 8		
Distance (m)	Sound Level at PoR ^[3]	Units ^[2]
5571	0	dBA
5578	0	dBA
5587	0	dBA
5370	0	dBA
5090	0	dBA
5011	0	dBA
4949	0	dBA
4901	0	dBA
4853	0	dBA
4812	0	dBA
4638	0	dBA
4571	0	dBA
4513	0	dBA
4453	0	dBA
4397	0	dBA
2837	0	dBA
2603	0	dBA
2818	0	dBA
2741	0	dBA
2633	0	dBA
2522	0	dBA
2421	0	dBA
1959	10	dBA
4657	0	dBA
4651	0	dBA
4648	0	dBA
4801	0	dBA
4793	0	dBA
4792	0	dBA
4795	0	dBA
2895	0	dBA
2908	0	dBA
2928	0	dBA
2955	0	dBA
2974	0	dBA
3005	0	dBA
3071	0	dBA
3075	0	dBA
3082	0	dBA
3096	0	dBA
3115	0	dBA
3141	0	dBA
3158	0	dBA
3189	0	dBA
3255	0	dBA
3260	0	dBA
3272	0	dBA
3289	0	dBA

Point of Reception 9		
Distance (m)	Sound Level at PoR ^[3]	Units ^[2]
5205	0	dBA
5216	0	dBA
5227	0	dBA
5019	0	dBA
4737	0	dBA
4654	0	dBA
4588	0	dBA
4536	0	dBA
4484	0	dBA
4440	0	dBA
4303	0	dBA
4231	0	dBA
4168	0	dBA
4103	0	dBA
4042	0	dBA
2513	0	dBA
2267	0	dBA
2477	0	dBA
2512	0	dBA
2395	0	dBA
2272	0	dBA
2160	0	dBA
1666	11	dBA
4271	0	dBA
4265	0	dBA
4262	0	dBA
4415	0	dBA
4407	0	dBA
4406	0	dBA
4410	0	dBA
2510	0	dBA
2525	0	dBA
2547	0	dBA
2578	0	dBA
2599	0	dBA
2634	0	dBA
2685	0	dBA
2689	0	dBA
2696	0	dBA
2711	0	dBA
2733	0	dBA
2762	0	dBA
2782	0	dBA
2815	0	dBA
2868	0	dBA
2874	0	dBA
2887	0	dBA
2906	0	dBA

Point of Reception 10		
Distance (m)	Sound Level at PoR ^[3]	Units ^[2]
5067	0	dBA
5086	0	dBA
5105	0	dBA
4917	0	dBA
4631	0	dBA
4540	0	dBA
4464	0	dBA
4403	0	dBA
4342	0	dBA
4289	0	dBA
4232	0	dBA
4152	0	dBA
4080	0	dBA
4006	0	dBA
3935	0	dBA
2476	0	dBA
2212	0	dBA
2412	0	dBA
2601	0	dBA
2475	0	dBA
2342	0	dBA
2219	0	dBA
1697	11	dBA
4049	0	dBA
4036	0	dBA
4024	0	dBA
4192	0	dBA
4172	0	dBA
4165	0	dBA
4161	0	dBA
2306	0	dBA
2334	0	dBA
2370	0	dBA
2417	0	dBA
2447	0	dBA
2495	0	dBA
2454	0	dBA
2470	0	dBA
2487	0	dBA
2516	0	dBA
2550	0	dBA
2594	0	dBA
2622	0	dBA
2668	0	dBA
2637	0	dBA
2655	0	dBA
2682	0	dBA
2714	0	dBA

Appendix H: Point of Reception Noise Impact

 Project: Sol-Luce Kingston Solar PV Energy Project
 Location: Kingston ON

Point of Reception ID POR06				Point of Reception ID POR07				Point of Reception ID POR08				Point of Reception ID POR09				Point of Reception ID POR10													
Point of Reception Description House 06				Point of Reception Description House 07				Point of Reception Description House 08				Point of Reception Description House 09				Point of Reception Description House 10													
Point of reception coordinates				Point of reception coordinates				Point of reception coordinates				Point of reception coordinates				Point of reception coordinates													
X		Y		Z ^[1]		X		Y		Z ^[1]		X		Y		Z ^[1]		X		Y		Z ^[1]							
365333		4905535		135.5		365290		4905358		132.3		365438		4906947		136.9		365824		4906970		138.5		366076		4906749		141.0	
Source ID ^[1]	Source Description			Point of Reception 6			Point of Reception 7			Point of Reception 8			Point of Reception 9			Point of Reception 10													
	Distance (m)	Sound Level at PoR ^[3]	Units ^[2]	Distance (m)	Sound Level at PoR ^[3]	Units ^[2]	Distance (m)	Sound Level at PoR ^[3]	Units ^[2]	Distance (m)	Sound Level at PoR ^[3]	Units ^[2]	Distance (m)	Sound Level at PoR ^[3]	Units ^[2]	Distance (m)	Sound Level at PoR ^[3]	Units ^[2]											
P14A_U19	MVPP P14A_U19	3963	0	dBA	4097	0	dBA	3312	0	dBA	2931	0	dBA	2753	0	dBA	2802	0	dBA										
P14A_U20	MVPP P14A_U20	4041	0	dBA	4179	0	dBA	3343	0	dBA	2965	0	dBA	2802	0	dBA	2850	0	dBA										
P14A_U21	MVPP P14A_U21	4113	0	dBA	4253	0	dBA	3375	0	dBA	3001	0	dBA	2850	0	dBA	2155	0	dBA										
P14B_U1	MVPP P14B_U1	3375	0	dBA	3513	0	dBA	2723	0	dBA	2340	0	dBA	2155	0	dBA	2191	0	dBA										
P14B_U2	MVPP P14B_U2	3439	0	dBA	3581	0	dBA	2742	0	dBA	2362	0	dBA	2191	0	dBA	2238	0	dBA										
P14B_U3	MVPP P14B_U3	3513	0	dBA	3658	0	dBA	2769	0	dBA	2393	0	dBA	2238	0	dBA	2269	0	dBA										
P14B_U4	MVPP P14B_U4	3559	0	dBA	3706	0	dBA	2788	0	dBA	2414	0	dBA	2269	0	dBA	2325	0	dBA										
P14B_U5	MVPP P14B_U5	3638	0	dBA	3787	0	dBA	2824	0	dBA	2456	0	dBA	2325	0	dBA	2057	0	dBA										
P14B_U6	MVPP P14B_U6	3347	0	dBA	3494	0	dBA	2584	0	dBA	2208	0	dBA	2057	0	dBA	2113	0	dBA										
P14B_U7	MVPP P14B_U7	3427	0	dBA	3577	0	dBA	2617	0	dBA	2247	0	dBA	2113	0	dBA	2195	0	dBA										
P14B_U8	MVPP P14B_U8	3534	0	dBA	3688	0	dBA	2670	0	dBA	2307	0	dBA	2195	0	dBA	1656	17	dBA										
P14C_U1	MVPP P14C_U1	2897	0	dBA	3040	0	dBA	2232	0	dBA	1847	16	dBA	1656	17	dBA	1695	17	dBA										
P14C_U2	MVPP P14C_U2	2967	0	dBA	3114	0	dBA	2249	0	dBA	1867	16	dBA	1695	17	dBA	1732	17	dBA										
P14C_U3	MVPP P14C_U3	3028	0	dBA	3178	0	dBA	2267	0	dBA	1888	16	dBA	1732	17	dBA	1853	16	dBA										
P14C_U4	MVPP P14C_U4	3122	0	dBA	3268	0	dBA	2402	0	dBA	2022	0	dBA	1853	16	dBA	262	33	dBA										
P19_20_U1	MVPP P19/20_U1	1179	17	dBA	1349	15	dBA	737	24	dBA	515	28	dBA	262	33	dBA	150	31	dBA										
P19_U1	MVPP P19_U1	1273	9	dBA	1448	8	dBA	647	20	dBA	390	24	dBA	150	31	dBA	126	33	dBA										
P19_U2	MVPP P19_U2	1338	9	dBA	1516	8	dBA	563	21	dBA	281	27	dBA	126	33	dBA	189	30	dBA										
P19_U3	MVPP P19_U3	1415	8	dBA	1595	7	dBA	482	22	dBA	162	31	dBA	189	30	dBA	321	32	dBA										
P19_U4	MVPP P19_U4	1153	17	dBA	1333	15	dBA	505	28	dBA	380	30	dBA	321	32	dBA	332	25	dBA										
P19_U5	MVPP P19_U5	1237	10	dBA	1419	8	dBA	396	24	dBA	280	27	dBA	332	25	dBA	556	27	dBA										
P20_U1	MVPP P20_U1	1217	16	dBA	1399	15	dBA	225	35	dBA	382	30	dBA	556	27	dBA	1737	6	dBA										
P21_U1	MVPP P21_U1	331	25	dBA	220	29	dBA	1656	7	dBA	1802	6	dBA	1737	6	dBA	1663	17	dBA										
P21_U2	MVPP P21_U2	327	32	dBA	300	32	dBA	1536	14	dBA	1705	13	dBA	1663	17	dBA	1609	17	dBA										
P21_U3	MVPP P21_U3	377	30	dBA	403	26	dBA	1439	15	dBA	1628	13	dBA	1609	17	dBA	1522	18	dBA										
P21_U4	MVPP P21_U4	517	28	dBA	596	23	dBA	1274	16	dBA	1499	14	dBA	1522	18	dBA	1499	18	dBA										
P21_U5	MVPP P21_U5	599	26	dBA	689	22	dBA	1212	16	dBA	1456	14	dBA	1499	18	dBA	1480	18	dBA										
P21_U6	MVPP P21_U6	694	25	dBA	793	20	dBA	1149	17	dBA	1414	15	dBA	1480	18	dBA	1469	18	dBA										
P21_U7	MVPP P21_U7	792	20	dBA	899	19	dBA	1093	21	dBA	1379	19	dBA	1469	18	dBA	1467	12	dBA										
P21_U8	MVPP P21_U8	893	12	dBA	1004	11	dBA	1045	15	dBA	1353	13	dBA	1467	12	dBA	1475	12	dBA										
P21_U9	MVPP P21_U9	1026	11	dBA	1142	10	dBA	997	16	dBA	1330	13	dBA	1475	12	dBA	1852	16	dBA										
P22_U1	MVPP P22_U1	480	28	dBA	384	30	dBA	1719	13	dBA	1894	12	dBA	1852	16	dBA	1782	16	dBA										
P22_U2	MVPP P22_U2	494	28	dBA	457	25	dBA	1601	14	dBA	1799	12	dBA	1782	16	dBA	1724	17	dBA										
P22_U3	MVPP P22_U3	585	26	dBA	602	23	dBA	1475	14	dBA	1705	13	dBA	1724	17	dBA	1679	17	dBA										
P22_U4	MVPP P22_U4	703	25	dBA	754	21	dBA	1365	15	dBA	1627	13	dBA	1679	17	dBA	1657	11	dBA										
P22_U5	MVPP P22_U5	819	18	dBA	888	13	dBA	1288	14	dBA	1575	7	dBA	1657	11	dBA	1721	11	dBA										
P22_U6	MVPP P22_U6	1027	11	dBA	1103	11	dBA	1275	14	dBA	1598	12	dBA	1721	11	dBA	2032	0	dBA										
P23_U1	MVPP P23_U1	691	25	dBA	597	26	dBA	1848	12	dBA	2051	0	dBA	2032	0	dBA	1978	12	dBA										
P23_U2	MVPP P23_U2	703	25	dBA	643	22	dBA	1754	13	dBA	1977	12	dBA	1978	12	dBA	1934	12	dBA										
P23_U3	MVPP P23_U3	742	24	dBA	715	21	dBA	1668	13	dBA	1911	12	dBA	1934	12	dBA	1898	16	dBA										
P23_U4	MVPP P23_U4	803	20	dBA	804	20	dBA	1589	14	dBA	1852	12	dBA	1898	16	dBA	1869	16	dBA										
P23_U5	MVPP P23_U5	897	23	dBA	924	19	dBA	1509	14	dBA	1795	12	dBA	1869	16	dBA	1855	10	dBA										
P23_U6	MVPP P23_U6	992	12	dBA	1036	11	dBA	1450	13	dBA	1757	11	dBA	1855	10	dBA	1851	10	dBA										
P23_U7	MVPP P23_U7	1097	11	dBA	1155	10	dBA	1401	13	dBA	1727	11	dBA	1851	10	dBA	2016	0	dBA										
P24_U1	MVPP P24_U1	600	26	dBA	419	29	dBA	1998	11	dBA	2116	0	dBA	2016	0	dBA	1885	12	dBA										
P24_U2	MVPP P24_U2	464	28	dBA	287	33	dBA	1859	12	dBA	1979	12	dBA	1885	12	dBA	1882	12	dBA										
P24_U3	MVPP P24_U3	521	27	dBA	348	28	dBA	1935	12	dBA	2013	0	dBA	1882	12	dBA	3944	0	dBA										
TS	Transformer Station	5249	0	dBA	5394	0	dBA	4415	0	dBA	4057	0	dBA	3944	0	dBA	3657	0	dBA										
H1T	Hut 1 Transformer	4402	0	dBA	4474	0	dBA	4319	0	dBA	3944	0	dBA	3657	0	dBA	4401	0	dBA										
H1I1	Hut 1 Inverter 1	4401	0	dBA	4472	0	dBA	4319	0	dBA	3944	0	dBA	3656	0	dBA	4403	0	dBA										
H1I2	Hut 1 Inverter 2	4403	0	dBA	4475	0	dBA	4321	0	dBA	3946	0	dBA	3659	0	dBA	4223	0	dBA										
H2T	Hut 2 Transformer	4223	0	dBA	4296	0	dBA	4140	0	dBA	3766	0	dBA	3477	0	dBA	4221	0	dBA										
H2I1	Hut 2 Inverter 1	4221	0	dBA	4293	0	dBA	4140	0	dBA	3766	0	dBA	3477	0	dBA	4223	0	dBA										
H2I2	Hut 2 Inverter 2	4223	0	dBA	4296	0	dBA	4142	0	dBA	3769	0	dBA	3479	0	dBA	4043	0	dBA										
H3T	Hut 3 Transformer	4043	0	dBA	4117	0	dBA	3962	0	dBA	3589	0	dBA	3298	0	dBA	4041	0	dBA										
H3I1	Hut 3 Inverter 1	4041	0	dBA	4115	0	dBA	3961	0	dBA	3589	0	dBA	3298	0	dBA	4044	0	dBA										
H3I2	Hut 3 Inverter 2	4044	0	dBA	4118	0	dBA	3964	0	dBA	3591	0	dBA	3300	0	dBA													