

Appendix H: Point of Reception Noise Impact

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



Point of Reception ID 0			Point of Reception ID 0			Point of Reception ID 0			Point of Reception ID 0			Point of Reception ID 0		
Point of Reception Description 0			Point of Reception Description 0			Point of Reception Description 0			Point of Reception Description 0			Point of Reception Description 0		
X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0

Source ID ⁽¹⁾	Source Description
P14A_U19	MVPP P14A_U19
P14A_U20	MVPP P14A_U20
P14A_U21	MVPP P14A_U21
P14B_U1	MVPP P14B_U1
P14B_U2	MVPP P14B_U2
P14B_U3	MVPP P14B_U3
P14B_U4	MVPP P14B_U4
P14B_U5	MVPP P14B_U5
P14B_U6	MVPP P14B_U6
P14B_U7	MVPP P14B_U7
P14B_U8	MVPP P14B_U8
P14C_U1	MVPP P14C_U1
P14C_U2	MVPP P14C_U2
P14C_U3	MVPP P14C_U3
P14C_U4	MVPP P14C_U4
P19_20_U1	MVPP P19/20_U1
P19_U1	MVPP P19_U1
P19_U2	MVPP P19_U2
P19_U3	MVPP P19_U3
P19_U4	MVPP P19_U4
P19_U5	MVPP P19_U5
P20_U1	MVPP P20_U1
P21_U1	MVPP P21_U1
P21_U2	MVPP P21_U2
P21_U3	MVPP P21_U3
P21_U4	MVPP P21_U4
P21_U5	MVPP P21_U5
P21_U6	MVPP P21_U6
P21_U7	MVPP P21_U7
P21_U8	MVPP P21_U8
P21_U9	MVPP P21_U9
P22_U1	MVPP P22_U1
P22_U2	MVPP P22_U2
P22_U3	MVPP P22_U3
P22_U4	MVPP P22_U4
P22_U5	MVPP P22_U5
P22_U6	MVPP P22_U6
P23_U1	MVPP P23_U1
P23_U2	MVPP P23_U2
P23_U3	MVPP P23_U3
P23_U4	MVPP P23_U4
P23_U5	MVPP P23_U5
P23_U6	MVPP P23_U6
P23_U7	MVPP P23_U7
P24_U1	MVPP P24_U1
P24_U2	MVPP P24_U2
P24_U3	MVPP P24_U3
TS	Transformer Station
H1T	Hut 1 Transformer
H1I1	Hut 1 Inverter 1
H1I2	Hut 1 Inverter 2
H2T	Hut 2 Transformer
H2I1	Hut 2 Inverter 1
H2I2	Hut 2 Inverter 2
H3T	Hut 3 Transformer
H3I1	Hut 3 Inverter 1
H3I2	Hut 3 Inverter 2

Point of Reception 41			Point of Reception 42			Point of Reception 43			Point of Reception 44			Point of Reception 45		
Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽⁴⁾ (dBA)	Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽⁴⁾ (dBA)	Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽⁴⁾ (dBA)	Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽⁴⁾ (dBA)	Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽⁴⁾ (dBA)
4921502	0	dBA	4921502	0	dBA	4921502	0	dBA	4921502	0	dBA	4921502	0	dBA
4921651	0	dBA	4921651	0	dBA	4921651	0	dBA	4921651	0	dBA	4921651	0	dBA
4921779	0	dBA	4921779	0	dBA	4921779	0	dBA	4921779	0	dBA	4921779	0	dBA
4921232	0	dBA	4921232	0	dBA	4921232	0	dBA	4921232	0	dBA	4921232	0	dBA
4921350	0	dBA	4921350	0	dBA	4921350	0	dBA	4921350	0	dBA	4921350	0	dBA
4921479	0	dBA	4921479	0	dBA	4921479	0	dBA	4921479	0	dBA	4921479	0	dBA
4921558	0	dBA	4921558	0	dBA	4921558	0	dBA	4921558	0	dBA	4921558	0	dBA
4921686	0	dBA	4921686	0	dBA	4921686	0	dBA	4921686	0	dBA	4921686	0	dBA
4921427	0	dBA	4921427	0	dBA	4921427	0	dBA	4921427	0	dBA	4921427	0	dBA
4921556	0	dBA	4921556	0	dBA	4921556	0	dBA	4921556	0	dBA	4921556	0	dBA
4921722	0	dBA	4921722	0	dBA	4921722	0	dBA	4921722	0	dBA	4921722	0	dBA
4921033	0	dBA	4921033	0	dBA	4921033	0	dBA	4921033	0	dBA	4921033	0	dBA
4921151	0	dBA	4921151	0	dBA	4921151	0	dBA	4921151	0	dBA	4921151	0	dBA
4921252	0	dBA	4921252	0	dBA	4921252	0	dBA	4921252	0	dBA	4921252	0	dBA
4921233	0	dBA	4921233	0	dBA	4921233	0	dBA	4921233	0	dBA	4921233	0	dBA
4920127	0	dBA	4920127	0	dBA	4920127	0	dBA	4920127	0	dBA	4920127	0	dBA
4920253	0	dBA	4920253	0	dBA	4920253	0	dBA	4920253	0	dBA	4920253	0	dBA
4920349	0	dBA	4920349	0	dBA	4920349	0	dBA	4920349	0	dBA	4920349	0	dBA
4920454	0	dBA	4920454	0	dBA	4920454	0	dBA	4920454	0	dBA	4920454	0	dBA
4920208	0	dBA	4920208	0	dBA	4920208	0	dBA	4920208	0	dBA	4920208	0	dBA
4920313	0	dBA	4920313	0	dBA	4920313	0	dBA	4920313	0	dBA	4920313	0	dBA
4920334	0	dBA	4920334	0	dBA	4920334	0	dBA	4920334	0	dBA	4920334	0	dBA
4918898	0	dBA	4918898	0	dBA	4918898	0	dBA	4918898	0	dBA	4918898	0	dBA
4919033	0	dBA	4919033	0	dBA	4919033	0	dBA	4919033	0	dBA	4919033	0	dBA
4919148	0	dBA	4919148	0	dBA	4919148	0	dBA	4919148	0	dBA	4919148	0	dBA
4919350	0	dBA	4919350	0	dBA	4919350	0	dBA	4919350	0	dBA	4919350	0	dBA
4919437	0	dBA	4919437	0	dBA	4919437	0	dBA	4919437	0	dBA	4919437	0	dBA
4919533	0	dBA	4919533	0	dBA	4919533	0	dBA	4919533	0	dBA	4919533	0	dBA
4919629	0	dBA	4919629	0	dBA	4919629	0	dBA	4919629	0	dBA	4919629	0	dBA
4919725	0	dBA	4919725	0	dBA	4919725	0	dBA	4919725	0	dBA	4919725	0	dBA
4919849	0	dBA	4919849	0	dBA	4919849	0	dBA	4919849	0	dBA	4919849	0	dBA
4918866	0	dBA	4918866	0	dBA	4918866	0	dBA	4918866	0	dBA	4918866	0	dBA
4919010	0	dBA	4919010	0	dBA	4919010	0	dBA	4919010	0	dBA	4919010	0	dBA
4919182	0	dBA	4919182	0	dBA	4919182	0	dBA	4919182	0	dBA	4919182	0	dBA
4919345	0	dBA	4919345	0	dBA	4919345	0	dBA	4919345	0	dBA	4919345	0	dBA
4919480	0	dBA	4919480	0	dBA	4919480	0	dBA	4919480	0	dBA	4919480	0	dBA
4919627	0	dBA	4919627	0	dBA	4919627	0	dBA	4919627	0	dBA	4919627	0	dBA
4918792	0	dBA	4918792	0	dBA	4918792	0	dBA	4918792	0	dBA	4918792	0	dBA
4918916	0	dBA	4918916	0	dBA	4918916	0	dBA	4918916	0	dBA	4918916	0	dBA
4919041	0	dBA	4919041	0	dBA	4919041	0	dBA	4919041	0	dBA	4919041	0	dBA
4919165	0	dBA	4919165	0	dBA	4919165	0	dBA	4919165	0	dBA	4919165	0	dBA
4919309	0	dBA	4919309	0	dBA	4919309	0	dBA	4919309	0	dBA	4919309	0	dBA
4919434	0	dBA	4919434	0	dBA	4919434	0	dBA	4919434	0	dBA	4919434	0	dBA
4919560	0	dBA	4919560	0	dBA	4919560	0	dBA	4919560	0	dBA	4919560	0	dBA
4918546	0	dBA	4918546	0	dBA	4918546	0	dBA	4918546	0	dBA	4918546	0	dBA
4918685	0	dBA	4918685	0	dBA	4918685	0	dBA	4918685	0	dBA	4918685	0	dBA
4918602	0	dBA	4918602	0	dBA	4918602	0	dBA	4918602	0	dBA	4918602	0	dBA
4922676	30	dBA	4922676	31	dBA	4922676	32	dBA	4922676	32	dBA	4922676	34	dBA
4920086	0	dBA	4920086	0	dBA	4920086	0	dBA	4920086	0	dBA	4920086	0	dBA
4920081	0	dBA	4920081	0	dBA	4920081	0	dBA	4920081	0	dBA	4920081	0	dBA
4920082	0	dBA	4920082	0	dBA	4920082	0	dBA	4920082	0	dBA	4920082	0	dBA
4920073	0	dBA	4920073	0	dBA	4920073	0	dBA	4920073	0	dBA	4920073	0	dBA
4920068	0	dBA	4920068	0	dBA	4920068	0	dBA	4920068	0	dBA	4920068	0	dBA
4920068	0	dBA	4920068	0	dBA	4920068	0	dBA	4920068	0	dBA	4920068	0	dBA
4920059	0	dBA	4920059	0	dBA	4920059	0	dBA	4920059	0	dBA	4920059	0	dBA
4920054	0	dBA	4920054	0	dBA	4920054	0	dBA	4920054	0	dBA	4920054	0	dBA
4920054	0	dBA	4920054	0	dBA	4920054	0	dBA	4920054	0	dBA	4920054	0	dBA

Appendix H: Point of Reception Noise Impact

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



Point of Reception ID 0	Point of Reception ID 0	Point of Reception ID 0	Point of Reception ID 0	Point of Reception ID 0
Point of Reception Description 0	Point of Reception Description 0	Point of Reception Description 0	Point of Reception Description 0	Point of Reception Description 0
X Y Z 0 0 0.0	X Y Z 0 0 0.0	X Y Z 0 0 0.0	X Y Z 0 0 0.0	X Y Z 0 0 0.0

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 41		
Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽⁴⁾ (dBA)
4920470	0	dBA
4920465	0	dBA
4920465	0	dBA
4920504	0	dBA
4920499	0	dBA
4920500	0	dBA
4920336	0	dBA
4920331	0	dBA
4920331	0	dBA
4920493	0	dBA
4920488	0	dBA
4920488	0	dBA
4920482	0	dBA
4920477	0	dBA
4920477	0	dBA
4920277	0	dBA
4920273	0	dBA
4920273	0	dBA
4920242	0	dBA
4920237	0	dBA
4920237	0	dBA
4919967	0	dBA
4917080	0	dBA
4916906	0	dBA
4916930	0	dBA
4916776	0	dBA
4916801	0	dBA
4916647	0	dBA
4916673	0	dBA
4916519	0	dBA
4916544	0	dBA
4916390	0	dBA
4916415	0	dBA

Point of Reception 42		
Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽⁴⁾ (dBA)
4920470	0	dBA
4920465	0	dBA
4920465	0	dBA
4920504	0	dBA
4920499	0	dBA
4920500	0	dBA
4920336	0	dBA
4920331	0	dBA
4920331	0	dBA
4920493	0	dBA
4920488	0	dBA
4920488	0	dBA
4920482	0	dBA
4920477	0	dBA
4920477	0	dBA
4920277	0	dBA
4920273	0	dBA
4920273	0	dBA
4920242	0	dBA
4920237	0	dBA
4920237	0	dBA
4919967	0	dBA
4917080	0	dBA
4916906	0	dBA
4916930	0	dBA
4916776	0	dBA
4916801	0	dBA
4916647	0	dBA
4916673	0	dBA
4916519	0	dBA
4916544	0	dBA
4916390	0	dBA
4916415	0	dBA

Point of Reception 43		
Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽⁴⁾ (dBA)
4920470	0	dBA
4920465	0	dBA
4920465	0	dBA
4920504	0	dBA
4920499	0	dBA
4920500	0	dBA
4920336	0	dBA
4920331	0	dBA
4920331	0	dBA
4920493	0	dBA
4920488	0	dBA
4920488	0	dBA
4920482	0	dBA
4920477	0	dBA
4920477	0	dBA
4920277	0	dBA
4920273	0	dBA
4920273	0	dBA
4920242	0	dBA
4920237	0	dBA
4920237	0	dBA
4919967	0	dBA
4917080	0	dBA
4916906	0	dBA
4916930	0	dBA
4916776	0	dBA
4916801	0	dBA
4916647	0	dBA
4916673	0	dBA
4916519	0	dBA
4916544	0	dBA
4916390	0	dBA
4916415	0	dBA

Point of Reception 44		
Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽⁴⁾ (dBA)
4920470	0	dBA
4920465	0	dBA
4920465	0	dBA
4920504	0	dBA
4920499	0	dBA
4920500	0	dBA
4920336	0	dBA
4920331	0	dBA
4920331	0	dBA
4920493	0	dBA
4920488	0	dBA
4920488	0	dBA
4920482	0	dBA
4920477	0	dBA
4920477	0	dBA
4920277	0	dBA
4920273	0	dBA
4920273	0	dBA
4920242	0	dBA
4920237	0	dBA
4920237	0	dBA
4919967	0	dBA
4917080	0	dBA
4916906	0	dBA
4916930	0	dBA
4916776	0	dBA
4916801	0	dBA
4916647	0	dBA
4916673	0	dBA
4916519	0	dBA
4916544	0	dBA
4916390	0	dBA
4916415	0	dBA

Point of Reception 45		
Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽⁴⁾ (dBA)
4920470	0	dBA
4920465	0	dBA
4920465	0	dBA
4920504	0	dBA
4920499	0	dBA
4920500	0	dBA
4920336	0	dBA
4920331	0	dBA
4920331	0	dBA
4920493	0	dBA
4920488	0	dBA
4920488	0	dBA
4920482	0	dBA
4920477	0	dBA
4920477	0	dBA
4920277	0	dBA
4920273	0	dBA
4920273	0	dBA
4920242	0	dBA
4920237	0	dBA
4920237	0	dBA
4919967	0	dBA
4917080	0	dBA
4916906	0	dBA
4916930	0	dBA
4916776	0	dBA
4916801	0	dBA
4916647	0	dBA
4916673	0	dBA
4916519	0	dBA
4916544	0	dBA
4916390	0	dBA
4916415	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
0	0	0	0
Point of Reception Description	Point of Reception Description	Point of Reception Description	Point of Reception Description
0	0	0	0
X	Y	Z	X
0	0	0.0	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_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 46		
Distance (m)	Sound Level at PoR ^[3]	Units ^[4] (dBA)
4922961	32	dBA
4923086	29	dBA
4923192	30	dBA
4923361	26	dBA
4923142	24	dBA
4922992	30	dBA
4922834	22	dBA
4922695	21	dBA
4922547	19	dBA
4922409	18	dBA
4923280	21	dBA
4923141	22	dBA
4923013	16	dBA
4922875	16	dBA
4922736	21	dBA
4922302	0	dBA
4922027	0	dBA
4922112	0	dBA
4922861	0	dBA
4922723	0	dBA
4922574	0	dBA
4922436	0	dBA
4921910	0	dBA
4921321	16	dBA
4921212	16	dBA
4921055	0	dBA
4921333	16	dBA
4921135	15	dBA
4921015	0	dBA
4920877	0	dBA
4921128	0	dBA
4921246	0	dBA
4921375	0	dBA
4921513	0	dBA
4921592	0	dBA
4921710	0	dBA
4920914	0	dBA
4921033	0	dBA
4921132	0	dBA
4921260	0	dBA
4921389	0	dBA
4921527	0	dBA
4921606	0	dBA
4921724	0	dBA
4920938	0	dBA
4921077	0	dBA
4921225	0	dBA
4921363	0	dBA

Point of Reception 47		
Distance (m)	Sound Level at PoR ^[3]	Units ^[4] (dBA)
4922961	17	dBA
4923086	10	dBA
4923192	10	dBA
4923361	0	dBA
4923142	0	dBA
4922992	15	dBA
4922834	11	dBA
4922695	11	dBA
4922547	12	dBA
4922409	13	dBA
4923280	0	dBA
4923141	0	dBA
4923013	0	dBA
4922875	0	dBA
4922736	0	dBA
4922302	0	dBA
4922027	0	dBA
4922112	0	dBA
4922861	0	dBA
4922723	0	dBA
4922574	0	dBA
4922436	0	dBA
4921910	0	dBA
4921321	21	dBA
4921212	22	dBA
4921055	21	dBA
4921333	23	dBA
4921135	24	dBA
4921015	16	dBA
4920877	15	dBA
4921128	0	dBA
4921246	0	dBA
4921375	0	dBA
4921513	0	dBA
4921592	0	dBA
4921710	0	dBA
4920914	0	dBA
4921033	0	dBA
4921132	0	dBA
4921260	0	dBA
4921389	0	dBA
4921527	0	dBA
4921606	0	dBA
4921724	0	dBA
4920938	0	dBA
4921077	0	dBA
4921225	0	dBA
4921363	0	dBA

Point of Reception 48		
Distance (m)	Sound Level at PoR ^[3]	Units ^[4] (dBA)
4922961	0	dBA
4923086	0	dBA
4923192	0	dBA
4923361	0	dBA
4923142	0	dBA
4922992	0	dBA
4922834	10	dBA
4922695	10	dBA
4922547	11	dBA
4922409	12	dBA
4923280	0	dBA
4923141	0	dBA
4923013	0	dBA
4922875	0	dBA
4922736	0	dBA
4922302	0	dBA
4922027	0	dBA
4922112	0	dBA
4922861	0	dBA
4922723	0	dBA
4922574	0	dBA
4922436	0	dBA
4921910	0	dBA
4921321	27	dBA
4921212	29	dBA
4921055	32	dBA
4921333	29	dBA
4921135	33	dBA
4921015	30	dBA
4920877	33	dBA
4921128	0	dBA
4921246	0	dBA
4921375	0	dBA
4921513	0	dBA
4921592	0	dBA
4921710	0	dBA
4920914	16	dBA
4921033	16	dBA
4921132	16	dBA
4921260	16	dBA
4921389	15	dBA
4921527	0	dBA
4921606	0	dBA
4921724	0	dBA
4920938	17	dBA
4921077	17	dBA
4921225	17	dBA
4921363	16	dBA

Point of Reception 49		
Distance (m)	Sound Level at PoR ^[3]	Units ^[4] (dBA)
4922961	0	dBA
4923086	0	dBA
4923192	0	dBA
4923361	0	dBA
4923142	0	dBA
4922992	0	dBA
4922834	0	dBA
4922695	0	dBA
4922547	0	dBA
4922409	10	dBA
4923280	0	dBA
4923141	0	dBA
4923013	0	dBA
4922875	0	dBA
4922736	0	dBA
4922302	0	dBA
4922027	0	dBA
4922112	0	dBA
4922861	0	dBA
4922723	0	dBA
4922574	0	dBA
4922436	0	dBA
4921910	0	dBA
4921321	23	dBA
4921212	24	dBA
4921055	26	dBA
4921333	23	dBA
4921135	26	dBA
4921015	21	dBA
4920877	24	dBA
4921128	0	dBA
4921246	0	dBA
4921375	0	dBA
4921513	0	dBA
4921592	0	dBA
4921710	0	dBA
4920914	16	dBA
4921033	16	dBA
4921132	15	dBA
4921260	0	dBA
4921389	0	dBA
4921527	0	dBA
4921606	0	dBA
4921724	0	dBA
4920938	17	dBA
4921077	16	dBA
4921225	16	dBA
4921363	16	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
0	0	0	0
Point of Reception Description	Point of Reception Description	Point of Reception Description	Point of Reception Description
0	0	0	0
X Y Z	X Y Z	X Y Z	X Y Z
0 0 0.0	0 0 0.0	0 0 0.0	0 0 0.0

Source ID ⁽¹⁾	Source Description
P14A_U19	MVPP P14A_U19
P14A_U20	MVPP P14A_U20
P14A_U21	MVPP P14A_U21
P14B_U1	MVPP P14B_U1
P14B_U2	MVPP P14B_U2
P14B_U3	MVPP P14B_U3
P14B_U4	MVPP P14B_U4
P14B_U5	MVPP P14B_U5
P14B_U6	MVPP P14B_U6
P14B_U7	MVPP P14B_U7
P14B_U8	MVPP P14B_U8
P14C_U1	MVPP P14C_U1
P14C_U2	MVPP P14C_U2
P14C_U3	MVPP P14C_U3
P14C_U4	MVPP P14C_U4
P19_20_U1	MVPP P19/20_U1
P19_U1	MVPP P19_U1
P19_U2	MVPP P19_U2
P19_U3	MVPP P19_U3
P19_U4	MVPP P19_U4
P19_U5	MVPP P19_U5
P20_U1	MVPP P20_U1
P21_U1	MVPP P21_U1
P21_U2	MVPP P21_U2
P21_U3	MVPP P21_U3
P21_U4	MVPP P21_U4
P21_U5	MVPP P21_U5
P21_U6	MVPP P21_U6
P21_U7	MVPP P21_U7
P21_U8	MVPP P21_U8
P21_U9	MVPP P21_U9
P22_U1	MVPP P22_U1
P22_U2	MVPP P22_U2
P22_U3	MVPP P22_U3
P22_U4	MVPP P22_U4
P22_U5	MVPP P22_U5
P22_U6	MVPP P22_U6
P23_U1	MVPP P23_U1
P23_U2	MVPP P23_U2
P23_U3	MVPP P23_U3
P23_U4	MVPP P23_U4
P23_U5	MVPP P23_U5
P23_U6	MVPP P23_U6
P23_U7	MVPP P23_U7
P24_U1	MVPP P24_U1
P24_U2	MVPP P24_U2
P24_U3	MVPP P24_U3
TS	Transformer Station
H1T	Hut 1 Transformer
H1I1	Hut 1 Inverter 1
H1I2	Hut 1 Inverter 2
H2T	Hut 2 Transformer
H2I1	Hut 2 Inverter 1
H2I2	Hut 2 Inverter 2
H3T	Hut 3 Transformer
H3I1	Hut 3 Inverter 1
H3I2	Hut 3 Inverter 2

Point of Reception 46		
Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽⁴⁾
4921502	0	dBA
4921651	0	dBA
4921779	0	dBA
4921232	0	dBA
4921350	0	dBA
4921479	0	dBA
4921558	0	dBA
4921686	0	dBA
4921427	0	dBA
4921556	0	dBA
4921722	0	dBA
4921033	0	dBA
4921151	0	dBA
4921252	0	dBA
4921233	0	dBA
4920127	0	dBA
4920253	0	dBA
4920349	0	dBA
4920454	0	dBA
4920208	0	dBA
4920313	0	dBA
4920334	0	dBA
4918898	0	dBA
4919033	0	dBA
4919148	0	dBA
4919350	0	dBA
4919437	0	dBA
4919533	0	dBA
4919629	0	dBA
4919725	0	dBA
4919849	0	dBA
4918866	0	dBA
4919010	0	dBA
4919182	0	dBA
4919345	0	dBA
4919480	0	dBA
4919627	0	dBA
4918792	0	dBA
4918916	0	dBA
4919041	0	dBA
4919165	0	dBA
4919309	0	dBA
4919434	0	dBA
4919560	0	dBA
4918546	0	dBA
4918685	0	dBA
4918602	0	dBA
4922676	34	dBA
4920086	0	dBA
4920081	0	dBA
4920082	0	dBA
4920073	0	dBA
4920068	0	dBA
4920068	0	dBA
4920059	0	dBA
4920054	0	dBA
4920054	0	dBA

Point of Reception 47		
Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽⁴⁾
4921502	0	dBA
4921651	0	dBA
4921779	0	dBA
4921232	0	dBA
4921350	0	dBA
4921479	0	dBA
4921558	0	dBA
4921686	0	dBA
4921427	0	dBA
4921556	0	dBA
4921722	0	dBA
4921033	0	dBA
4921151	0	dBA
4921252	0	dBA
4921233	0	dBA
4920127	0	dBA
4920253	0	dBA
4920349	0	dBA
4920454	0	dBA
4920208	0	dBA
4920313	0	dBA
4920334	0	dBA
4918898	0	dBA
4919033	0	dBA
4919148	0	dBA
4919350	0	dBA
4919437	0	dBA
4919533	0	dBA
4919629	0	dBA
4919725	0	dBA
4919849	0	dBA
4918866	0	dBA
4919010	0	dBA
4919182	0	dBA
4919345	0	dBA
4919480	0	dBA
4919627	0	dBA
4918792	0	dBA
4918916	0	dBA
4919041	0	dBA
4919165	0	dBA
4919309	0	dBA
4919434	0	dBA
4919560	0	dBA
4918546	0	dBA
4918685	0	dBA
4918602	0	dBA
4922676	0	dBA
4920086	-5	dBA
4920081	7	dBA
4920082	7	dBA
4920073	-6	dBA
4920068	5	dBA
4920068	5	dBA
4920059	-7	dBA
4920054	4	dBA
4920054	4	dBA

Point of Reception 48		
Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽⁴⁾
4921502	10	dBA
4921651	10	dBA
4921779	10	dBA
4921232	0	dBA
4921350	0	dBA
4921479	0	dBA
4921558	0	dBA
4921686	0	dBA
4921427	0	dBA
4921556	0	dBA
4921722	0	dBA
4921033	0	dBA
4921151	0	dBA
4921252	0	dBA
4921233	0	dBA
4920127	0	dBA
4920253	0	dBA
4920349	0	dBA
4920454	0	dBA
4920208	0	dBA
4920313	0	dBA
4920334	0	dBA
4918898	0	dBA
4919033	0	dBA
4919148	0	dBA
4919350	0	dBA
4919437	0	dBA
4919533	0	dBA
4919629	0	dBA
4919725	0	dBA
4919849	0	dBA
4918866	0	dBA
4919010	0	dBA
4919182	0	dBA
4919345	0	dBA
4919480	0	dBA
4919627	0	dBA
4918792	0	dBA
4918916	0	dBA
4919041	0	dBA
4919165	0	dBA
4919309	0	dBA
4919434	0	dBA
4919560	0	dBA
4918546	0	dBA
4918685	0	dBA
4918602	0	dBA
4922676	0	dBA
4920086	1	dBA
4920081	12	dBA
4920082	12	dBA
4920073	-1	dBA
4920068	10	dBA
4920068	10	dBA
4920059	-2	dBA
4920054	9	dBA
4920054	9	dBA

Point of Reception 49		
Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽⁴⁾
4921502	10	dBA
4921651	0	dBA
4921779	0	dBA
4921232	0	dBA
4921350	0	dBA
4921479	0	dBA
4921558	0	dBA
4921686	0	dBA
4921427	0	dBA
4921556	0	dBA
4921722	0	dBA
4921033	0	dBA
4921151	0	dBA
4921252	0	dBA
4921233	0	dBA
4920127	0	dBA
4920253	0	dBA
4920349	0	dBA
4920454	0	dBA
4920208	0	dBA
4920313	0	dBA
4920334	0	dBA
4918898	0	dBA
4919033	0	dBA
4919148	0	dBA
4919350	0	dBA
4919437	0	dBA
4919533	0	dBA
4919629	0	dBA
4919725	0	dBA
4919849	0	dBA
4918866	0	dBA
4919010	0	dBA
4919182	0	dBA
4919345	0	dBA
4919480	0	dBA
4919627	0	dBA
4918792	0	dBA
4918916	0	dBA
4919041	0	dBA
4919165	0	dBA
4919309	0	dBA
4919434	0	dBA
4919560	0	dBA
4918546	0	dBA
4918685	0	dBA
4918602	0	dBA
4922676	0	dBA
4920086	4	dBA
4920081	16	dBA
4920082	16	dBA
4920073	2	dBA
4920068	13	dBA
4920068	13	dBA
4920059	0	dBA
4920054	11	dBA
4920054	11	dBA

Appendix H: Point of Reception Noise Impact

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



Point of Reception ID 0	Point of Reception ID 0	Point of Reception ID 0	Point of Reception ID 0
Point of Reception Description 0	Point of Reception Description 0	Point of Reception Description 0	Point of Reception Description 0
X 0	Y 0	Z 0.0	X 0
Y 0	Z 0.0	X 0	Y 0
Z 0.0	X 0	Y 0	Z 0.0

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 46			
Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽⁴⁾ (dBA)	
4920470	0	dBA	
4920465	0	dBA	
4920465	0	dBA	
4920504	0	dBA	
4920499	0	dBA	
4920500	0	dBA	
4920336	0	dBA	
4920331	0	dBA	
4920331	0	dBA	
4920493	0	dBA	
4920488	0	dBA	
4920488	0	dBA	
4920482	0	dBA	
4920477	0	dBA	
4920477	0	dBA	
4920277	0	dBA	
4920273	0	dBA	
4920273	0	dBA	
4920242	0	dBA	
4920237	0	dBA	
4920237	0	dBA	
4919967	0	dBA	
4917080	0	dBA	
4916906	0	dBA	
4916930	0	dBA	
4916776	0	dBA	
4916801	0	dBA	
4916647	0	dBA	
4916673	0	dBA	
4916519	0	dBA	
4916544	0	dBA	
4916390	0	dBA	
4916415	0	dBA	

Point of Reception 47			
Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽⁴⁾ (dBA)	
4920470	-4	dBA	
4920465	7	dBA	
4920465	7	dBA	
4920504	-3	dBA	
4920499	10	dBA	
4920500	8	dBA	
4920336	-3	dBA	
4920331	9	dBA	
4920331	9	dBA	
4920493	-2	dBA	
4920488	9	dBA	
4920488	9	dBA	
4920482	-3	dBA	
4920477	8	dBA	
4920477	8	dBA	
4920277	-5	dBA	
4920273	6	dBA	
4920273	6	dBA	
4920242	-4	dBA	
4920237	7	dBA	
4920237	7	dBA	
4919967	10	dBA	
4917080	0	dBA	
4916906	0	dBA	
4916930	0	dBA	
4916776	0	dBA	
4916801	0	dBA	
4916647	0	dBA	
4916673	0	dBA	
4916519	0	dBA	
4916544	0	dBA	
4916390	0	dBA	
4916415	0	dBA	

Point of Reception 48			
Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽⁴⁾ (dBA)	
4920470	1	dBA	
4920465	12	dBA	
4920465	12	dBA	
4920504	6	dBA	
4920499	18	dBA	
4920500	18	dBA	
4920336	4	dBA	
4920331	15	dBA	
4920331	15	dBA	
4920493	4	dBA	
4920488	16	dBA	
4920488	16	dBA	
4920482	3	dBA	
4920477	14	dBA	
4920477	14	dBA	
4920277	-1	dBA	
4920273	11	dBA	
4920273	11	dBA	
4920242	1	dBA	
4920237	12	dBA	
4920237	13	dBA	
4919967	15	dBA	
4917080	0	dBA	
4916906	0	dBA	
4916930	0	dBA	
4916776	0	dBA	
4916801	0	dBA	
4916647	0	dBA	
4916673	0	dBA	
4916519	0	dBA	
4916544	0	dBA	
4916390	0	dBA	
4916415	0	dBA	

Point of Reception 49			
Distance (m)	Sound Level at PoR ⁽³⁾	Units ⁽⁴⁾ (dBA)	
4920470	2	dBA	
4920465	13	dBA	
4920465	13	dBA	
4920504	10	dBA	
4920499	21	dBA	
4920500	21	dBA	
4920336	7	dBA	
4920331	19	dBA	
4920331	19	dBA	
4920493	7	dBA	
4920488	18	dBA	
4920488	18	dBA	
4920482	4	dBA	
4920477	16	dBA	
4920477	16	dBA	
4920277	1	dBA	
4920273	13	dBA	
4920273	13	dBA	
4920242	5	dBA	
4920237	16	dBA	
4920237	16	dBA	
4919967	19	dBA	
4917080	0	dBA	
4916906	0	dBA	
4916930	0	dBA	
4916776	0	dBA	
4916801	0	dBA	
4916647	0	dBA	
4916673	0	dBA	
4916519	0	dBA	
4916544	0	dBA	
4916390	0	dBA	
4916415	0	dBA	

Appendix H: Point of Reception Noise Impact



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

Notes:

1. Wherever possible, the Source ID matches the identifiers used in the drawing.
2. Sound Level units
dBA = 1-hour energy equivalent sound level (L_{eq} (1-hr)), in terms of A-Weighted decibels.
dBAI = Logarithmic mean impulsive noise level (L_{LM}), in terms of A-Weighted decibels incorporating an impulsive time weighting
3. Height above local grade 1.5 m for Houses.
4. Noise receptors representative of worst-case potential impacts have been selected. For the purposes of noise impact assessment, the following land uses (existing or zoned for future use) have been considered:
 - permanent , seasonal, or rental residences
 - hotels, motels and campgrounds
 - nursing / retirement homes
 - hospitals and clinics
 - schools, universities, libraries and daycare centres
 - churches and places of worship

APPENDIX I
KEY PARAMETERS

Key Parameters Included in the Noise Model



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

Parameter	Value	Rationale
Ground Absorption	0.8	Accounts mostly soft surface between facility and receptors of interest.
Temperature	10°C	Ontario standard conditions
Relative Humidity	70%	Ontario standard conditions
Max. Order of Reflection	1	To account reflections from buildings and structures.
Reflection Coefficient	N/A	Accounts for absorption/attenuation from building surfaces