



## **Appendix D: Sample calculations**

# Goshen Noise Results

Configuration	
Parameter	Value
General	
Country	International
Max. Error (dB)	0.00
Max. Search Radius (m)	5000.00
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)	60.00
Reference Time Night (min)	60.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	6.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	150.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	1
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rcvr - 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	1.0 0.0 0.0
Temperature (°C)	10
rel. Humidity (%)	70
Ground Absorption G	0.70
Wind Speed for Dir. (m/s)	3.0
Roads (RLS-90)	
Strictly acc. to RLS-90	
Railways (Schall 03)	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

(Wind Speed = 6m/s)

Receiver  
 Name: Goshen  
 ID: GSH769  
 X: 439554.00  
 Y: 4788402.00  
 Z: 190.74

Point Source, ISO 9613, Name: "52", ID: "Goshen"																			
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	440156.00	4788373.00	269.63	0	32	81.5	81.5	0.0	0.0	66.7	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	17.8	17.8
2	440156.00	4788373.00	269.63	0	63	91.2	91.2	0.0	0.0	66.7	0.1	-3.0	0.0	0.0	0.0	0.0	-0.0	27.5	27.5
3	440156.00	4788373.00	269.63	0	125	94.8	94.8	0.0	0.0	66.7	0.2	1.6	0.0	0.0	0.0	0.0	-0.0	26.3	26.3
4	440156.00	4788373.00	269.63	0	250	94.2	94.2	0.0	0.0	66.7	0.6	0.1	0.0	0.0	0.0	0.0	-0.0	26.8	26.8
5	440156.00	4788373.00	269.63	0	500	94.6	94.6	0.0	0.0	66.7	1.2	-0.9	0.0	0.0	0.0	0.0	-0.0	27.7	27.7
6	440156.00	4788373.00	269.63	0	1000	99.1	99.1	0.0	0.0	66.7	2.3	-0.9	0.0	0.0	0.0	0.0	-0.0	31.1	31.1
7	440156.00	4788373.00	269.63	0	2000	98.0	98.0	0.0	0.0	66.7	5.9	-0.9	0.0	0.0	0.0	0.0	-0.0	26.3	26.3
8	440156.00	4788373.00	269.63	0	4000	88.8	88.8	0.0	0.0	66.7	19.9	-0.9	0.0	0.0	0.0	0.0	-0.0	3.1	3.1
9	440156.00	4788373.00	269.63	0	8000	71.2	71.2	0.0	0.0	66.7	71.1	-0.9	0.0	0.0	0.0	0.0	-0.0	-65.7	-65.7

Point Source, ISO 9613, Name: "53", ID: "Goshen"																			
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	442135.00	4790871.00	273.76	0	32	73.7	73.7	0.0	0.0	82.1	0.0	-3.9	0.0	0.0	0.0	0.0	-0.0	-4.5	-4.5
2	442135.00	4790871.00	273.76	0	63	84.1	84.1	0.0	0.0	82.1	0.4	-3.9	0.0	0.0	0.0	0.0	-0.0	5.5	5.5
3	442135.00	4790871.00	273.76	0	125	91.8	91.8	0.0	0.0	82.1	1.4	1.5	0.0	0.0	0.0	0.0	-0.0	6.8	6.8
4	442135.00	4790871.00	273.76	0	250	95.3	95.3	0.0	0.0	82.1	3.6	-0.2	0.0	0.0	0.0	0.0	-0.0	9.9	9.9
5	442135.00	4790871.00	273.76	0	500	96.6	96.6	0.0	0.0	82.1	6.8	-1.2	0.0	0.0	0.0	0.0	-0.0	8.9	8.9
6	442135.00	4790871.00	273.76	0	1000	97.5	97.5	0.0	0.0	82.1	13.2	-1.2	0.0	0.0	0.0	0.0	-0.0	3.4	3.4
7	442135.00	4790871.00	273.76	0	2000	95.7	95.7	0.0	0.0	82.1	34.7	-1.2	0.0	0.0	0.0	0.0	-0.0	-19.9	-19.9
8	442135.00	4790871.00	273.76	0	4000	89.1	89.1	0.0	0.0	82.1	117.2	-1.2	0.0	0.0	0.0	0.0	-0.0	-109.0	-109.0
9	442135.00	4790871.00	273.76	0	8000	70.6	70.6	0.0	0.0	82.1	418.0	-1.2	0.0	0.0	0.0	0.0	-0.0	-428.3	-428.3

Point Source, ISO 9613, Name: "54", ID: "Goshen"																			
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	439792.00	4790436.00	265.00	0	32	73.7	73.7	0.0	0.0	77.2	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	-0.5	-0.5
2	439792.00	4790436.00	265.00	0	63	84.1	84.1	0.0	0.0	77.2	0.2	-3.0	0.0	0.0	0.0	0.0	-0.0	9.7	9.7
3	439792.00	4790436.00	265.00	0	125	91.8	91.8	0.0	0.0	77.2	0.8	1.8	0.0	0.0	0.0	0.0	-0.0	12.0	12.0
4	439792.00	4790436.00	265.00	0	250	95.3	95.3	0.0	0.0	77.2	2.0	0.1	0.0	0.0	0.0	0.0	-0.0	16.0	16.0
5	439792.00	4790436.00	265.00	0	500	96.6	96.6	0.0	0.0	77.2	3.9	-0.9	0.0	0.0	0.0	0.0	-0.0	16.4	16.4
6	439792.00	4790436.00	265.00	0	1000	97.5	97.5	0.0	0.0	77.2	7.6	-0.9	0.0	0.0	0.0	0.0	-0.0	13.6	13.6
7	439792.00	4790436.00	265.00	0	2000	95.7	95.7	0.0	0.0	77.2	19.9	-0.9	0.0	0.0	0.0	0.0	-0.0	-0.5	-0.5
8	439792.00	4790436.00	265.00	0	4000	89.1	89.1	0.0	0.0	77.2	67.2	-0.9	0.0	0.0	0.0	0.0	-0.0	-54.4	-54.4
9	439792.00	4790436.00	265.00	0	8000	70.6	70.6	0.0	0.0	77.2	239.8	-0.9	0.0	0.0	0.0	0.0	-0.0	-245.5	-245.5

Point Source, ISO 9613, Name: "55", ID: "Goshen"																			
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	440005.00	4789811.00	266.23	0	32	73.7	73.7	0.0	0.0	74.4	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	2.3	2.3
2	440005.00	4789811.00	266.23	0	63	84.1	84.1	0.0	0.0	74.4	0.2	-3.0	0.0	0.0	0.0	0.0	-0.0	12.5	12.5
3	440005.00	4789811.00	266.23	0	125	91.8	91.8	0.0	0.0	74.4	0.6	1.8	0.0	0.0	0.0	0.0	-0.0	15.0	15.0
4	440005.00	4789811.00	266.23	0	250	95.3	95.3	0.0	0.0	74.4	1.5	0.1	0.0	0.0	0.0	0.0	-0.0	19.3	19.3
5	440005.00	4789811.00	266.23	0	500	96.6	96.6	0.0	0.0	74.4	2.8	-0.9	0.0	0.0	0.0	0.0	-0.0	20.3	20.3
6	440005.00	4789811.00	266.23	0	1000	97.5	97.5	0.0	0.0	74.4	5.5	-0.9	0.0	0.0	0.0	0.0	-0.0	18.5	18.5
7	440005.00	4789811.00	266.23	0	2000	95.7	95.7	0.0	0.0	74.4	14.4	-0.9	0.0	0.0	0.0	0.0	-0.0	7.8	7.8
8	440005.00	4789811.00	266.23	0	4000	89.1	89.1	0.0	0.0	74.4	48.6	-0.9	0.0	0.0	0.0	0.0	-0.0	-33.0	-33.0
9	440005.00	4789811.00	266.23	0	8000	70.6	70.6	0.0	0.0	74.4	173.3	-0.9	0.0	0.0	0.0	0.0	-0.0	-176.2	-176.2

Point Source, ISO 9613, Name: "56", ID: "Goshen"																			
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	439925.00	4788922.00	266.37	0	32	73.7	73.7	0.0	0.0	67.2	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	9.5	9.5

Point Source, ISO 9613, Name: "56", ID: "Goshen"																			
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	439925.00	4788922.00	266.37	0	63	84.1	84.1	0.0	0.0	67.2	0.1	-3.0	0.0	0.0	0.0	0.0	-0.0	19.9	19.9
3	439925.00	4788922.00	266.37	0	125	91.8	91.8	0.0	0.0	67.2	0.3	1.6	0.0	0.0	0.0	0.0	-0.0	22.8	22.8
4	439925.00	4788922.00	266.37	0	250	95.3	95.3	0.0	0.0	67.2	0.6	0.1	0.0	0.0	0.0	0.0	-0.0	27.4	27.4
5	439925.00	4788922.00	266.37	0	500	96.6	96.6	0.0	0.0	67.2	1.2	-0.9	0.0	0.0	0.0	0.0	-0.0	29.1	29.1
6	439925.00	4788922.00	266.37	0	1000	97.5	97.5	0.0	0.0	67.2	2.4	-0.9	0.0	0.0	0.0	0.0	-0.0	28.9	28.9
7	439925.00	4788922.00	266.37	0	2000	95.7	95.7	0.0	0.0	67.2	6.2	-0.9	0.0	0.0	0.0	0.0	-0.0	23.2	23.2
8	439925.00	4788922.00	266.37	0	4000	89.1	89.1	0.0	0.0	67.2	21.1	-0.9	0.0	0.0	0.0	0.0	-0.0	1.7	1.7
9	439925.00	4788922.00	266.37	0	8000	70.6	70.6	0.0	0.0	67.2	75.3	-0.9	0.0	0.0	0.0	0.0	-0.0	-70.9	-70.9

Point Source, ISO 9613, Name: "57", ID: "Goshen"																			
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	438121.00	4790232.00	260.50	0	32	73.7	73.7	0.0	0.0	78.3	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	-1.6	-1.6
2	438121.00	4790232.00	260.50	0	63	84.1	84.1	0.0	0.0	78.3	0.2	-3.0	0.0	0.0	0.0	0.0	-0.0	8.5	8.5
3	438121.00	4790232.00	260.50	0	125	91.8	91.8	0.0	0.0	78.3	0.9	1.8	0.0	0.0	0.0	0.0	-0.0	10.8	10.8
4	438121.00	4790232.00	260.50	0	250	95.3	95.3	0.0	0.0	78.3	2.3	0.1	0.0	0.0	0.0	0.0	-0.0	14.6	14.6
5	438121.00	4790232.00	260.50	0	500	96.6	96.6	0.0	0.0	78.3	4.4	-0.9	0.0	0.0	0.0	0.0	-0.0	14.8	14.8
6	438121.00	4790232.00	260.50	0	1000	97.5	97.5	0.0	0.0	78.3	8.6	-0.9	0.0	0.0	0.0	0.0	-0.0	11.5	11.5
7	438121.00	4790232.00	260.50	0	2000	95.7	95.7	0.0	0.0	78.3	22.6	-0.9	0.0	0.0	0.0	0.0	-0.0	-4.3	-4.3
8	438121.00	4790232.00	260.50	0	4000	89.1	89.1	0.0	0.0	78.3	76.3	-0.9	0.0	0.0	0.0	0.0	-0.0	-64.6	-64.6
9	438121.00	4790232.00	260.50	0	8000	70.6	70.6	0.0	0.0	78.3	272.1	-0.9	0.0	0.0	0.0	0.0	-0.0	-278.9	-278.9

Point Source, ISO 9613, Name: "58", ID: "Goshen"																			
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	437973.00	4789428.00	260.00	0	32	73.7	73.7	0.0	0.0	76.5	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	0.2	0.2
2	437973.00	4789428.00	260.00	0	63	84.1	84.1	0.0	0.0	76.5	0.2	-3.0	0.0	0.0	0.0	0.0	-0.0	10.4	10.4
3	437973.00	4789428.00	260.00	0	125	91.8	91.8	0.0	0.0	76.5	0.8	1.8	0.0	0.0	0.0	0.0	-0.0	12.8	12.8
4	437973.00	4789428.00	260.00	0	250	95.3	95.3	0.0	0.0	76.5	1.9	0.1	0.0	0.0	0.0	0.0	-0.0	16.8	16.8
5	437973.00	4789428.00	260.00	0	500	96.6	96.6	0.0	0.0	76.5	3.6	-0.9	0.0	0.0	0.0	0.0	-0.0	17.4	17.4
6	437973.00	4789428.00	260.00	0	1000	97.5	97.5	0.0	0.0	76.5	7.0	-0.9	0.0	0.0	0.0	0.0	-0.0	14.9	14.9
7	437973.00	4789428.00	260.00	0	2000	95.7	95.7	0.0	0.0	76.5	18.3	-0.9	0.0	0.0	0.0	0.0	-0.0	1.8	1.8
8	437973.00	4789428.00	260.00	0	4000	89.1	89.1	0.0	0.0	76.5	61.9	-0.9	0.0	0.0	0.0	0.0	-0.0	-48.4	-48.4
9	437973.00	4789428.00	260.00	0	8000	70.6	70.6	0.0	0.0	76.5	220.7	-0.9	0.0	0.0	0.0	0.0	-0.0	-225.7	-225.7

Point Source, ISO 9613, Name: "59", ID: "Goshen"																			
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	438098.00	4788616.00	260.36	0	32	73.7	73.7	0.0	0.0	74.4	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	2.3	2.3
2	438098.00	4788616.00	260.36	0	63	84.1	84.1	0.0	0.0	74.4	0.2	-3.0	0.0	0.0	0.0	0.0	-0.0	12.6	12.6
3	438098.00	4788616.00	260.36	0	125	91.8	91.8	0.0	0.0	74.4	0.6	1.8	0.0	0.0	0.0	0.0	-0.0	15.1	15.1
4	438098.00	4788616.00	260.36	0	250	95.3	95.3	0.0	0.0	74.4	1.5	0.1	0.0	0.0	0.0	0.0	-0.0	19.4	19.4
5	438098.00	4788616.00	260.36	0	500	96.6	96.6	0.0	0.0	74.4	2.8	-0.9	0.0	0.0	0.0	0.0	-0.0	20.3	20.3
6	438098.00	4788616.00	260.36	0	1000	97.5	97.5	0.0	0.0	74.4	5.5	-0.9	0.0	0.0	0.0	0.0	-0.0	18.6	18.6
7	438098.00	4788616.00	260.36	0	2000	95.7	95.7	0.0	0.0	74.4	14.3	-0.9	0.0	0.0	0.0	0.0	-0.0	7.9	7.9
8	438098.00	4788616.00	260.36	0	4000	89.1	89.1	0.0	0.0	74.4	48.3	-0.9	0.0	0.0	0.0	0.0	-0.0	-32.7	-32.7
9	438098.00	4788616.00	260.36	0	8000	70.6	70.6	0.0	0.0	74.4	172.4	-0.9	0.0	0.0	0.0	0.0	-0.0	-175.2	-175.2

Point Source, ISO 9613, Name: "60", ID: "Goshen"																			
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	437501.00	4789050.00	260.00	0	32	73.7	73.7	0.0	0.0	77.7	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	-1.0	-1.0
2	437501.00	4789050.00	260.00	0	63	84.1	84.1	0.0	0.0	77.7	0.2	-3.0	0.0	0.0	0.0	0.0	-0.0	9.2	9.2
3	437501.00	4789050.00	260.00	0	125	91.8	91.8	0.0	0.0	77.7	0.9	1.8	0.0	0.0	0.0	0.0	-0.0	11.5	11.5
4	437501.00	4789050.00	260.00	0	250	95.3	95.3	0.0	0.0	77.7	2.1	0.1	0.0	0.0	0.0	0.0	-0.0	15.4	15.4
5	437501.00	4789050.00	260.00	0	500	96.6	96.6	0.0	0.0	77.7	4.1	-0.9	0.0	0.0	0.0	0.0	-0.0	15.7	15.7
6	437501.00	4789050.00	260.00	0	1000	97.5	97.5	0.0	0.0	77.7	8.0	-0.9	0.0	0.0	0.0	0.0	-0.0	12.8	12.8
7	437501.00	4789050.00	260.00	0	2000	95.7	95.7	0.0	0.0	77.7	20.9	-0.9	0.0	0.0	0.0	0.0	-0.0	-2.0	-2.0
8	437501.00	4789050.00	260.00	0	4000	89.1	89.1	0.0	0.0	77.7	70.6	-0.9	0.0	0.0	0.0	0.0	-0.0	-58.3	-58.3
9	437501.00	4789050.00	260.00	0	8000	70.6	70.6	0.0	0.0	77.7	252.0	-0.9	0.0	0.0	0.0	0.0	-0.0	-258.2	-258.2

Point Source, ISO 9613, Name: "61", ID: "Goshen"																			
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	437294.00	4788459.00	260.00	0	32	73.7	73.7	0.0	0.0	78.1	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	-1.4	-1.4
2	437294.00	4788459.00	260.00	0	63	84.1	84.1	0.0	0.0	78.1	0.2	-3.0	0.0	0.0	0.0	0.0	-0.0	8.8	8.8
3	437294.00	4788459.00	260.00	0	125	91.8	91.8	0.0	0.0	78.1	0.9	1.8	0.0	0.0	0.0	0.0	-0.0	11.0	11.0
4	437294.00	4788459.00	260.00	0	250	95.3	95.3	0.0	0.0	78.1	2.3	0.1	0.0	0.0	0.0	0.0	-0.0	14.9	14.9
5	437294.00	4788459.00	260.00	0	500	96.6	96.6	0.0	0.0	78.1	4.3	-0.9	0.0	0.0	0.0	0.0	-0.0	15.1	15.1
6	437294.00	4788459.00	260.00	0	1000	97.5	97.5	0.0	0.0	78.1	8.4	-0.9	0.0	0.0	0.0	0.0	-0.0	11.9	11.9
7	437294.00	4788459.00	260.00	0	2000	95.7	95.7	0.0	0.0	78.1	21.9	-0.9	0.0	0.0	0.0	0.0	-0.0	-3.4	-3.4
8	437294.00	4788459.00	260.00	0	4000	89.1	89.1	0.0	0.0	78.1	74.2	-0.9	0.0	0.0	0.0	0.0	-0.0	-62.3	-62.3
9	437294.00	4788459.00	260.00	0	8000	70.6	70.6	0.0	0.0	78.1	264.6	-0.9	0.0	0.0	0.0	0.0	-0.0	-271.2	-271.2

Point Source, ISO 9613, Name: "62", ID: "Goshen"																			
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	437743.00	4788017.00	260.00	0	32	73.7	73.7	0.0	0.0	76.4	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	0.3	0.3
2	437743.00	4788017.00	260.00	0	63	84.1	84.1	0.0	0.0	76.4	0.2	-3.0	0.0	0.0	0.0	0.0	-0.0	10.6	10.6
3	437743.00	4788017.00	260.00	0	125	91.8	91.8	0.0	0.0	76.4	0.7	1.8	0.0	0.0	0.0	0.0	-0.0	12.9	12.9
4	437743.00	4788017.00	260.00	0	250	95.3	95.3	0.0	0.0	76.4	1.9	0.1	0.0	0.0	0.0	0.0	-0.0	17.0	17.0
5	437743.00	4788017.00	260.00	0	500	96.6	96.6	0.0	0.0	76.4	3.5	-0.9	0.0	0.0	0.0	0.0	-0.0	17.6	17.6
6	437743.00	4788017.00	260.00	0	1000	97.5	97.5	0.0	0.0	76.4	6.9	-0.9	0.0	0.0	0.0	0.0	-0.0	15.2	15.2
7	437743.00	4788017.00	260.00	0	2000	95.7	95.7	0.0	0.0	76.4	18.0	-0.9	0.0	0.0	0.0	0.0	-0.0	2.3	2.3
8	437743.00	4788017.00	260.00	0	4000	89.1	89.1	0.0	0.0	76.4	60.8	-0.9	0.0	0.0	0.0	0.0	-0.0	-47.1	-47.1
9	437743.00	4788017.00	260.00	0	8000	70.6	70.6	0.0	0.0	76.4	216.8	-0.9	0.0	0.0	0.0	0.0	-0.0	-221.6	-221.6

Point Source, ISO 9613, Name: "63", ID: "Goshen"																			
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	438227.00	4787615.00	261.81	0	32	73.7	73.7	0.0	0.0	74.8	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	1.9	1.9
2	438227.00	4787615.00	261.81	0	63	84.1	84.1	0.0	0.0	74.8	0.2	-3.0	0.0	0.0	0.0	0.0	-0.0	12.2	12.2
3	438227.00	4787615.00	261.81	0	125	91.8	91.8	0.0	0.0	74.8	0.6	1.8	0.0	0.0	0.0	0.0	-0.0	14.6	14.6
4	438227.00	4787615.00	261.81	0	250	95.3	95.3	0.0	0.0	74.8	1.5	0.1	0.0	0.0	0.0	0.0	-0.0	18.9	18.9
5	438227.00	4787615.00	261.81	0	500	96.6	96.6	0.0	0.0	74.8	2.9	-0.9	0.0	0.0	0.0	0.0	-0.0	19.8	19.8
6	438227.00	4787615.00	261.81	0	1000	97.5	97.5	0.0	0.0	74.8	5.7	-0.9	0.0	0.0	0.0	0.0	-0.0	17.9	17.9
7	438227.00	4787615.00	261.81	0	2000	95.7	95.7	0.0	0.0	74.8	15.0	-0.9	0.0	0.0	0.0	0.0	-0.0	6.8	6.8
8	438227.00	4787615.00	261.81	0	4000	89.1	89.1	0.0	0.0	74.8	50.7	-0.9	0.0	0.0	0.0	0.0	-0.0	-35.4	-35.4
9	438227.00	4787615.00	261.81	0	8000	70.6	70.6	0.0	0.0	74.8	180.7	-0.9	0.0	0.0	0.0	0.0	-0.0	-184.0	-184.0

Point Source, ISO 9613, Name: "84", ID: "Goshen"																			
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	438410.00	4790647.00	260.41	0	32	73.7	73.7	0.0	0.0	79.0	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	-2.3	-2.3
2	438410.00	4790647.00	260.41	0	63	84.1	84.1	0.0	0.0	79.0	0.3	-3.0	0.0	0.0	0.0	0.0	-0.0	7.8	7.8
3	438410.00	4790647.00	260.41	0	125	91.8	91.8	0.0	0.0	79.0	1.0	1.8	0.0	0.0	0.0	0.0	-0.0	10.0	10.0
4	438410.00	4790647.00	260.41	0	250	95.3	95.3	0.0	0.0	79.0	2.5	0.1	0.0	0.0	0.0	0.0	-0.0	13.7	13.7
5	438410.00	4790647.00	260.41	0	500	96.6	96.6	0.0	0.0	79.0	4.8	-0.9	0.0	0.0	0.0	0.0	-0.0	13.7	13.7
6	438410.00	4790647.00	260.41	0	1000	97.5	97.5	0.0	0.0	79.0	9.3	-0.9	0.0	0.0	0.0	0.0	-0.0	10.0	10.0
7	438410.00	4790647.00	260.41	0	2000	95.7	95.7	0.0	0.0	79.0	24.4	-0.9	0.0	0.0	0.0	0.0	-0.0	-6.9	-6.9
8	438410.00	4790647.00	260.41	0	4000	89.1	89.1	0.0	0.0	79.0	82.7	-0.9	0.0	0.0	0.0	0.0	-0.0	-71.7	-71.7
9	438410.00	4790647.00	260.41	0	8000	70.6	70.6	0.0	0.0	79.0	294.9	-0.9	0.0	0.0	0.0	0.0	-0.0	-302.4	-302.4

# Goshen Noise Results

Configuration	
Parameter	Value
General	
Country	International
Max. Error (dB)	0.00
Max. Search Radius (m)	5000.00
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)	60.00
Reference Time Night (min)	60.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	6.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	150.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	1
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rcvr - 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 1.0
Temperature (°C)	10
rel. Humidity (%)	70
Ground Absorption G	0.70
Wind Speed for Dir. (m/s)	3.0
Roads (RLS-90)	
Strictly acc. to RLS-90	
Railways (Schall 03)	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

(Wind Speed = 6m/s)

Receiver  
 Name: Goshen  
 ID: GSH2053  
 X: 455299.00  
 Y: 4794758.00  
 Z: 254.50

Area Source, ISO 9613, Name: "Goshen Transformer Top", ID: "GOSHENTRANSTOP"																			
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	454557.78	4794884.35	254.27	0	32	45.3	45.3	0.0	0.0	68.5	0.0	-5.0	0.0	0.0	0.0	0.0	-0.0	-18.3	-18.3
2	454557.78	4794884.35	254.27	0	63	64.5	64.5	0.0	0.0	68.5	0.1	-5.0	0.0	0.0	0.0	0.0	-0.0	0.9	0.9
3	454557.78	4794884.35	254.27	0	125	76.6	76.6	0.0	0.0	68.5	0.3	-0.1	0.0	0.0	0.0	0.0	-0.0	7.8	7.8
4	454557.78	4794884.35	254.27	0	250	79.1	79.1	0.0	0.0	68.5	0.8	-1.5	0.0	0.0	0.0	0.0	-0.0	11.3	11.3
5	454557.78	4794884.35	254.27	0	500	84.5	84.5	0.0	0.0	68.5	1.4	-2.4	0.0	0.0	0.0	0.0	-0.0	17.0	17.0
6	454557.78	4794884.35	254.27	0	1000	81.7	81.7	0.0	0.0	68.5	2.8	-2.4	0.0	0.0	0.0	0.0	-0.0	12.8	12.8
7	454557.78	4794884.35	254.27	0	2000	77.9	77.9	0.0	0.0	68.5	7.3	-2.4	0.0	0.0	0.0	0.0	-0.0	4.5	4.5
8	454557.78	4794884.35	254.27	0	4000	72.7	72.7	0.0	0.0	68.5	24.7	-2.4	0.0	0.0	0.0	0.0	-0.0	-18.1	-18.1
9	454557.78	4794884.35	254.27	0	8000	63.6	63.6	0.0	0.0	68.5	88.0	-2.4	0.0	0.0	0.0	0.0	-0.0	-90.5	-90.5
10	454556.50	4794881.33	254.27	0	32	50.8	50.8	0.0	0.0	68.5	0.0	-5.0	0.0	0.0	0.0	0.0	-0.0	-12.8	-12.8
11	454556.50	4794881.33	254.27	0	63	70.0	70.0	0.0	0.0	68.5	0.1	-5.0	0.0	0.0	0.0	0.0	-0.0	6.4	6.4
12	454556.50	4794881.33	254.27	0	125	82.1	82.1	0.0	0.0	68.5	0.3	-0.1	0.0	0.0	0.0	0.0	-0.0	13.4	13.4
13	454556.50	4794881.33	254.27	0	250	84.6	84.6	0.0	0.0	68.5	0.8	-1.5	0.0	0.0	0.0	0.0	-0.0	16.8	16.8
14	454556.50	4794881.33	254.27	0	500	90.0	90.0	0.0	0.0	68.5	1.4	-2.4	0.0	0.0	0.0	0.0	-0.0	22.5	22.5
15	454556.50	4794881.33	254.27	0	1000	87.2	87.2	0.0	0.0	68.5	2.8	-2.4	0.0	0.0	0.0	0.0	-0.0	18.3	18.3
16	454556.50	4794881.33	254.27	0	2000	83.4	83.4	0.0	0.0	68.5	7.3	-2.4	0.0	0.0	0.0	0.0	-0.0	10.0	10.0
17	454556.50	4794881.33	254.27	0	4000	78.2	78.2	0.0	0.0	68.5	24.7	-2.4	0.0	0.0	0.0	0.0	-0.0	-12.6	-12.6
18	454556.50	4794881.33	254.27	0	8000	69.1	69.1	0.0	0.0	68.5	88.1	-2.4	0.0	0.0	0.0	0.0	-0.0	-85.0	-85.0
19	454554.63	4794879.63	254.27	0	32	43.6	43.6	0.0	0.0	68.5	0.0	-5.0	0.0	0.0	0.0	0.0	-0.0	-20.0	-20.0
20	454554.63	4794879.63	254.27	0	63	62.8	62.8	0.0	0.0	68.5	0.1	-5.0	0.0	0.0	0.0	0.0	-0.0	-0.9	-0.9
21	454554.63	4794879.63	254.27	0	125	74.9	74.9	0.0	0.0	68.5	0.3	-0.1	0.0	0.0	0.0	0.0	-0.0	6.2	6.2
22	454554.63	4794879.63	254.27	0	250	77.4	77.4	0.0	0.0	68.5	0.8	-1.5	0.0	0.0	0.0	0.0	-0.0	9.7	9.7
23	454554.63	4794879.63	254.27	0	500	82.8	82.8	0.0	0.0	68.5	1.4	-2.4	0.0	0.0	0.0	0.0	-0.0	15.3	15.3
24	454554.63	4794879.63	254.27	0	1000	80.0	80.0	0.0	0.0	68.5	2.8	-2.4	0.0	0.0	0.0	0.0	-0.0	11.1	11.1
25	454554.63	4794879.63	254.27	0	2000	76.2	76.2	0.0	0.0	68.5	7.3	-2.4	0.0	0.0	0.0	0.0	-0.0	2.8	2.8
26	454554.63	4794879.63	254.27	0	4000	71.0	71.0	0.0	0.0	68.5	24.7	-2.4	0.0	0.0	0.0	0.0	-0.0	-19.8	-19.8
27	454554.63	4794879.63	254.27	0	8000	61.9	61.9	0.0	0.0	68.5	88.3	-2.4	0.0	0.0	0.0	0.0	-0.0	-92.4	-92.4
28	454553.48	4794882.34	254.27	0	32	48.6	48.6	0.0	0.0	68.6	0.0	-5.0	0.0	0.0	0.0	0.0	-0.0	-15.0	-15.0
29	454553.48	4794882.34	254.27	0	63	67.8	67.8	0.0	0.0	68.6	0.1	-5.0	0.0	0.0	0.0	0.0	-0.0	4.1	4.1
30	454553.48	4794882.34	254.27	0	125	79.9	79.9	0.0	0.0	68.6	0.3	-0.2	0.0	0.0	0.0	0.0	-0.0	11.2	11.2
31	454553.48	4794882.34	254.27	0	250	82.4	82.4	0.0	0.0	68.6	0.8	-1.6	0.0	0.0	0.0	0.0	-0.0	14.6	14.6
32	454553.48	4794882.34	254.27	0	500	87.8	87.8	0.0	0.0	68.6	1.4	-2.5	0.0	0.0	0.0	0.0	-0.0	20.2	20.2
33	454553.48	4794882.34	254.27	0	1000	85.0	85.0	0.0	0.0	68.6	2.8	-2.5	0.0	0.0	0.0	0.0	-0.0	16.1	16.1
34	454553.48	4794882.34	254.27	0	2000	81.2	81.2	0.0	0.0	68.6	7.3	-2.5	0.0	0.0	0.0	0.0	-0.0	7.7	7.7
35	454553.48	4794882.34	254.27	0	4000	76.0	76.0	0.0	0.0	68.6	24.8	-2.5	0.0	0.0	0.0	0.0	-0.0	-14.9	-14.9
36	454553.48	4794882.34	254.27	0	8000	66.9	66.9	0.0	0.0	68.6	88.4	-2.5	0.0	0.0	0.0	0.0	-0.0	-87.7	-87.7
37	454554.58	4794884.96	254.27	0	32	49.1	49.1	0.0	0.0	68.6	0.0	-5.0	0.0	0.0	0.0	0.0	-0.0	-14.5	-14.5
38	454554.58	4794884.96	254.27	0	63	68.3	68.3	0.0	0.0	68.6	0.1	-5.0	0.0	0.0	0.0	0.0	-0.0	4.6	4.6
39	454554.58	4794884.96	254.27	0	125	80.4	80.4	0.0	0.0	68.6	0.3	-0.2	0.0	0.0	0.0	0.0	-0.0	11.7	11.7
40	454554.58	4794884.96	254.27	0	250	82.9	82.9	0.0	0.0	68.6	0.8	-1.6	0.0	0.0	0.0	0.0	-0.0	15.2	15.2
41	454554.58	4794884.96	254.27	0	500	88.3	88.3	0.0	0.0	68.6	1.4	-2.4	0.0	0.0	0.0	0.0	-0.0	20.8	20.8
42	454554.58	4794884.96	254.27	0	1000	85.5	85.5	0.0	0.0	68.6	2.8	-2.4	0.0	0.0	0.0	0.0	-0.0	16.6	16.6
43	454554.58	4794884.96	254.27	0	2000	81.7	81.7	0.0	0.0	68.6	7.3	-2.4	0.0	0.0	0.0	0.0	-0.0	8.3	8.3
44	454554.58	4794884.96	254.27	0	4000	76.5	76.5	0.0	0.0	68.6	24.8	-2.4	0.0	0.0	0.0	0.0	-0.0	-14.4	-14.4
45	454554.58	4794884.96	254.27	0	8000	67.4	67.4	0.0	0.0	68.6	88.3	-2.4	0.0	0.0	0.0	0.0	-0.0	-87.0	-87.0
46	454556.21	4794886.10	254.27	0	32	43.8	43.8	0.0	0.0	68.5	0.0	-5.0	0.0	0.0	0.0	0.0	-0.0	-19.8	-19.8
47	454556.21	4794886.10	254.27	0	63	63.0	63.0	0.0	0.0	68.5	0.1	-5.0	0.0	0.0	0.0	0.0	-0.0	-0.7	-0.7
48	454556.21	4794886.10	254.27	0	125	75.1	75.1	0.0	0.0	68.5	0.3	-0.1	0.0	0.0	0.0	0.0	-0.0	6.4	6.4
49	454556.21	4794886.10	254.27	0	250	77.6	77.6	0.0	0.0	68.5	0.8	-1.5	0.0	0.0	0.0	0.0	-0.0	9.8	9.8
50	454556.21	4794886.10	254.27	0	500	83.0	83.0	0.0	0.0	68.5	1.4	-2.4	0.0	0.0	0.0	0.0	-0.0	15.5	15.5
51	454556.21	4794886.10	254.27	0	1000	80.2	80.2	0.0	0.0	68.5	2.8	-2.4	0.0	0.0	0.0	0.0	-0.0	11.3	11.3
52	454556.21	4794886.10	254.27	0	2000	76.4	76.4	0.0	0.0	68.5	7.3	-2.4	0.0	0.0	0.0	0.0	-0.0	3.0	3.0
53	454556.21	4794886.10	254.27	0	4000	71.2	71.2	0.0	0.0	68.5	24.7	-2.4	0.0	0.0	0.0	0.0	-0.0	-19.6	-19.6

Area Source, ISO 9613, Name: "Goshen Transformer Top", ID: "GOSHENTRANSTOP"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahou5	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)
54	454556.21	4794886.10	254.27	0	8000	62.1	62.1	0.0	0.0	68.5	88.2	-2.4	0.0	0.0	0.0	0.0	-0.0	-92.2	-92.2

vert. Area Source, ISO 9613, Name: "Goshen Transformer North Wall", ID: "GTRANSNORTH"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahou5	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	454555.40	4794886.43	254.29	0	32	46.9	46.9	3.0	0.0	68.5	0.0	-5.0	0.0	0.0	0.0	0.0	-0.0	-13.7	-13.7
2	454555.40	4794886.43	254.29	0	63	66.1	66.1	3.0	0.0	68.5	0.1	-5.0	0.0	0.0	0.0	0.0	-0.0	5.5	5.5
3	454555.40	4794886.43	254.29	0	125	78.2	78.2	3.0	0.0	68.5	0.3	-0.1	0.0	0.0	0.0	0.0	-0.0	12.5	12.5
4	454555.40	4794886.43	254.29	0	250	80.7	80.7	3.0	0.0	68.5	0.8	-1.5	0.0	0.0	0.0	0.0	-0.0	16.0	16.0
5	454555.40	4794886.43	254.29	0	500	86.1	86.1	3.0	0.0	68.5	1.4	-2.4	0.0	0.0	0.0	0.0	-0.0	21.6	21.6
6	454555.40	4794886.43	254.29	0	1000	83.3	83.3	3.0	0.0	68.5	2.8	-2.4	0.0	0.0	0.0	0.0	-0.0	17.4	17.4
7	454555.40	4794886.43	254.29	0	2000	79.5	79.5	3.0	0.0	68.5	7.3	-2.4	0.0	0.0	0.0	0.0	-0.0	9.1	9.1
8	454555.40	4794886.43	254.29	0	4000	74.3	74.3	3.0	0.0	68.5	24.8	-2.4	0.0	0.0	0.0	0.0	-0.0	-13.5	-13.5
9	454555.40	4794886.43	254.29	0	8000	65.2	65.2	3.0	0.0	68.5	88.3	-2.4	0.0	0.0	0.0	0.0	-0.0	-86.2	-86.2
10	454558.62	4794886.43	254.29	0	32	26.5	26.5	3.0	0.0	68.5	0.0	-5.0	0.0	0.0	0.0	0.0	-0.0	-34.1	-34.1
11	454558.62	4794886.43	254.29	0	63	45.7	45.7	3.0	0.0	68.5	0.1	-5.0	0.0	0.0	0.0	0.0	-0.0	-14.9	-14.9
12	454558.62	4794886.43	254.29	0	125	57.8	57.8	3.0	0.0	68.5	0.3	-0.0	0.0	0.0	0.0	0.0	-0.0	-8.0	-8.0
13	454558.62	4794886.43	254.29	0	250	60.3	60.3	3.0	0.0	68.5	0.8	-1.5	0.0	0.0	0.0	0.0	-0.0	-4.5	-4.5
14	454558.62	4794886.43	254.29	0	500	65.7	65.7	3.0	0.0	68.5	1.4	-2.4	0.0	0.0	0.0	0.0	-0.0	1.2	1.2
15	454558.62	4794886.43	254.29	0	1000	62.9	62.9	3.0	0.0	68.5	2.8	-2.4	0.0	0.0	0.0	0.0	-0.0	-3.0	-3.0
16	454558.62	4794886.43	254.29	0	2000	59.1	59.1	3.0	0.0	68.5	7.3	-2.4	0.0	0.0	0.0	0.0	-0.0	-11.3	-11.3
17	454558.62	4794886.43	254.29	0	4000	53.9	53.9	3.0	0.0	68.5	24.7	-2.4	0.0	0.0	0.0	0.0	-0.0	-33.8	-33.8
18	454558.62	4794886.43	254.29	0	8000	44.8	44.8	3.0	0.0	68.5	87.9	-2.4	0.0	0.0	0.0	0.0	-0.0	-106.2	-106.2
19	454555.40	4794886.43	252.29	0	32	46.9	46.9	3.0	0.0	68.5	0.0	-5.2	0.0	0.0	2.7	0.0	-0.0	-16.1	-16.1
20	454555.40	4794886.43	252.29	0	63	66.1	66.1	3.0	0.0	68.5	0.1	-5.2	0.0	0.0	3.4	0.0	-0.0	2.3	2.3
21	454555.40	4794886.43	252.29	0	125	78.2	78.2	3.0	0.0	68.5	0.3	-0.8	0.0	0.0	4.2	0.0	-0.0	9.0	9.0
22	454555.40	4794886.43	252.29	0	250	80.7	80.7	3.0	0.0	68.5	0.8	-2.0	0.0	0.0	5.0	0.0	-0.0	11.5	11.5
23	454555.40	4794886.43	252.29	0	500	86.1	86.1	3.0	0.0	68.5	1.4	-2.8	0.0	0.0	5.9	0.0	-0.0	16.0	16.0
24	454555.40	4794886.43	252.29	0	1000	83.3	83.3	3.0	0.0	68.5	2.8	-2.8	0.0	0.0	7.3	0.0	-0.0	10.5	10.5
25	454555.40	4794886.43	252.29	0	2000	79.5	79.5	3.0	0.0	68.5	7.3	-2.8	0.0	0.0	8.9	0.0	-0.0	0.6	0.6
26	454555.40	4794886.43	252.29	0	4000	74.3	74.3	3.0	0.0	68.5	24.8	-2.8	0.0	0.0	10.8	0.0	-0.0	-24.0	-24.0
27	454555.40	4794886.43	252.29	0	8000	65.2	65.2	3.0	0.0	68.5	88.3	-2.8	0.0	0.0	12.9	0.0	-0.0	-98.8	-98.8
28	454558.62	4794886.43	252.29	0	32	26.5	26.5	3.0	0.0	68.5	0.0	-5.2	0.0	0.0	0.0	0.0	-0.0	-33.8	-33.8
29	454558.62	4794886.43	252.29	0	63	45.7	45.7	3.0	0.0	68.5	0.1	-5.2	0.0	0.0	0.0	0.0	-0.0	-14.7	-14.7
30	454558.62	4794886.43	252.29	0	125	57.8	57.8	3.0	0.0	68.5	0.3	-0.8	0.0	0.0	0.0	0.0	-0.0	-7.2	-7.2
31	454558.62	4794886.43	252.29	0	250	60.3	60.3	3.0	0.0	68.5	0.8	-2.0	0.0	0.0	0.0	0.0	-0.0	-3.9	-3.9
32	454558.62	4794886.43	252.29	0	500	65.7	65.7	3.0	0.0	68.5	1.4	-2.8	0.0	0.0	0.0	0.0	-0.0	1.5	1.5
33	454558.62	4794886.43	252.29	0	1000	62.9	62.9	3.0	0.0	68.5	2.8	-2.8	0.0	0.0	0.0	0.0	-0.0	-2.6	-2.6
34	454558.62	4794886.43	252.29	0	2000	59.1	59.1	3.0	0.0	68.5	7.3	-2.8	0.0	0.0	0.0	0.0	-0.0	-10.9	-10.9
35	454558.62	4794886.43	252.29	0	4000	53.9	53.9	3.0	0.0	68.5	24.7	-2.8	0.0	0.0	0.0	0.0	-0.0	-33.5	-33.5
36	454558.62	4794886.43	252.29	0	8000	44.8	44.8	3.0	0.0	68.5	87.9	-2.8	0.0	0.0	0.0	0.0	-0.0	-105.9	-105.9
37	454555.40	4794886.43	251.29	0	32	46.9	46.9	3.0	0.0	68.5	0.0	-5.3	0.0	0.0	3.0	0.0	-0.0	-16.4	-16.4
38	454555.40	4794886.43	251.29	0	63	66.1	66.1	3.0	0.0	68.5	0.1	-5.3	0.0	0.0	3.8	0.0	-0.0	2.1	2.1
39	454555.40	4794886.43	251.29	0	125	78.2	78.2	3.0	0.0	68.5	0.3	-0.9	0.0	0.0	4.4	0.0	-0.0	8.9	8.9
40	454555.40	4794886.43	251.29	0	250	80.7	80.7	3.0	0.0	68.5	0.8	-2.1	0.0	0.0	5.2	0.0	-0.0	11.4	11.4
41	454555.40	4794886.43	251.29	0	500	86.1	86.1	3.0	0.0	68.5	1.4	-2.9	0.0	0.0	6.1	0.0	-0.0	16.0	16.0
42	454555.40	4794886.43	251.29	0	1000	83.3	83.3	3.0	0.0	68.5	2.8	-2.9	0.0	0.0	7.3	0.0	-0.0	10.6	10.6
43	454555.40	4794886.43	251.29	0	2000	79.5	79.5	3.0	0.0	68.5	7.3	-2.9	0.0	0.0	8.9	0.0	-0.0	0.7	0.7
44	454555.40	4794886.43	251.29	0	4000	74.3	74.3	3.0	0.0	68.5	24.8	-2.9	0.0	0.0	10.8	0.0	-0.0	-23.9	-23.9
45	454555.40	4794886.43	251.29	0	8000	65.2	65.2	3.0	0.0	68.5	88.3	-2.9	0.0	0.0	12.9	0.0	-0.0	-98.6	-98.6
46	454558.62	4794886.43	251.29	0	32	26.5	26.5	3.0	0.0	68.5	0.0	-5.3	0.0	0.0	0.0	0.0	-0.0	-33.7	-33.7
47	454558.62	4794886.43	251.29	0	63	45.7	45.7	3.0	0.0	68.5	0.1	-5.3	0.0	0.0	0.0	0.0	-0.0	-14.6	-14.6
48	454558.62	4794886.43	251.29	0	125	57.8	57.8	3.0	0.0	68.5	0.3	-0.9	0.0	0.0	0.0	0.0	-0.0	-7.1	-7.1
49	454558.62	4794886.43	251.29	0	250	60.3	60.3	3.0	0.0	68.5	0.8	-2.1	0.0	0.0	0.0	0.0	-0.0	-3.8	-3.8
50	454558.62	4794886.43	251.29	0	500	65.7	65.7	3.0	0.0	68.5	1.4	-2.9	0.0	0.0	0.0	0.0	-0.0	1.6	1.6
51	454558.62	4794886.43	251.29	0	1000	62.9	62.9	3.0	0.0	68.5	2.8	-2.9	0.0	0.0	0.0	0.0	-0.0	-2.5	-2.5
52	454558.62	4794886.43	251.29	0	2000	59.1	59.1	3.0	0.0	68.5	7.3	-2.9	0.0	0.0	0.0	0.0	-0.0	-10.8	-10.8
53	454558.62	4794886.43	251.29	0	4000	53.9	53.9	3.0	0.0	68.5	24.7	-2.9	0.0	0.0	0.0	0.0	-0.0	-33.4	-33.4
54	454558.62	4794886.43	251.29	0	8000	44.8	44.8	3.0	0.0	68.5	87.9	-2.9	0.0	0.0	0.0	0.0	-0.0	-105.8	-105.8
55	454555.40	4794886.43	253.29	0	32	46.9	46.9	3.0	0.0	68.5	0.0	-5.1	0.0	0.0	2.2	0.0	-0.0	-15.8	-15.8
56	454555.40	4794886.43	253.29	0	63	66.1	66.1	3.0	0.0	68.5	0.1	-5.1	0.0	0.0	2.9	0.0	-0.0	2.7	2.7
57	454555.40	4794886.43	253.29	0	125	78.2	78.2	3.0	0.0	68.5	0.3	-0.7	0.0	0.0	3.6	0.0	-0.0	9.5	9.5
58	454555.40	4794886.43	253.29	0	250	80.7	80.7	3.0	0.0	68.5	0.8	-1.9	0.0	0.0	4.5	0.0	-0.0	11.8	11.8
59	454555.40	4794886.43	253.29	0	500	86.1	86.1	3.0	0.0	68.5	1.4	-2.6	0.0	0.0	5.6	0.0	-0.0	16.2	16.2

Goshen Noise Results

vert. Area Source, ISO 9613, Name: "Goshen Transformer North Wall", ID: "GTRANSNORTH"																			
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)
60	454555.40	4794886.43	253.29	0	1000	83.3	83.3	3.0	0.0	68.5	2.8	-2.6	0.0	0.0	7.0	0.0	-0.0	10.7	10.7
61	454555.40	4794886.43	253.29	0	2000	79.5	79.5	3.0	0.0	68.5	7.3	-2.6	0.0	0.0	8.8	0.0	-0.0	0.5	0.5
62	454555.40	4794886.43	253.29	0	4000	74.3	74.3	3.0	0.0	68.5	24.8	-2.6	0.0	0.0	10.8	0.0	-0.0	-24.1	-24.1
63	454555.40	4794886.43	253.29	0	8000	65.2	65.2	3.0	0.0	68.5	88.3	-2.6	0.0	0.0	12.9	0.0	-0.0	-98.9	-98.9
64	454558.62	4794886.43	253.29	0	32	26.5	26.5	3.0	0.0	68.5	0.0	-5.1	0.0	0.0	0.0	0.0	-0.0	-33.9	-33.9
65	454558.62	4794886.43	253.29	0	63	45.7	45.7	3.0	0.0	68.5	0.1	-5.1	0.0	0.0	0.0	0.0	-0.0	-14.8	-14.8
66	454558.62	4794886.43	253.29	0	125	57.8	57.8	3.0	0.0	68.5	0.3	-0.7	0.0	0.0	0.0	0.0	-0.0	-7.3	-7.3
67	454558.62	4794886.43	253.29	0	250	60.3	60.3	3.0	0.0	68.5	0.8	-1.9	0.0	0.0	0.0	0.0	-0.0	-4.1	-4.1
68	454558.62	4794886.43	253.29	0	500	65.7	65.7	3.0	0.0	68.5	1.4	-2.6	0.0	0.0	0.0	0.0	-0.0	1.4	1.4
69	454558.62	4794886.43	253.29	0	1000	62.9	62.9	3.0	0.0	68.5	2.8	-2.6	0.0	0.0	0.0	0.0	-0.0	-2.8	-2.8
70	454558.62	4794886.43	253.29	0	2000	59.1	59.1	3.0	0.0	68.5	7.3	-2.6	0.0	0.0	0.0	0.0	-0.0	-11.1	-11.1
71	454558.62	4794886.43	253.29	0	4000	53.9	53.9	3.0	0.0	68.5	24.7	-2.6	0.0	0.0	0.0	0.0	-0.0	-33.6	-33.6
72	454558.62	4794886.43	253.29	0	8000	44.8	44.8	3.0	0.0	68.5	87.9	-2.6	0.0	0.0	0.0	0.0	-0.0	-106.0	-106.0
73	454555.40	4794886.43	250.40	0	32	45.9	45.9	3.0	0.0	68.5	0.0	-5.4	0.0	0.0	3.2	0.0	-0.0	-17.4	-17.4
74	454555.40	4794886.43	250.40	0	63	65.1	65.1	3.0	0.0	68.5	0.1	-5.4	0.0	0.0	3.9	0.0	-0.0	1.0	1.0
75	454555.40	4794886.43	250.40	0	125	77.2	77.2	3.0	0.0	68.5	0.3	-1.0	0.0	0.0	4.6	0.0	-0.0	7.8	7.8
76	454555.40	4794886.43	250.40	0	250	79.7	79.7	3.0	0.0	68.5	0.8	-2.3	0.0	0.0	5.3	0.0	-0.0	10.4	10.4
77	454555.40	4794886.43	250.40	0	500	85.1	85.1	3.0	0.0	68.5	1.4	-3.0	0.0	0.0	6.1	0.0	-0.0	15.0	15.0
78	454555.40	4794886.43	250.40	0	1000	82.3	82.3	3.0	0.0	68.5	2.8	-3.0	0.0	0.0	7.3	0.0	-0.0	9.7	9.7
79	454555.40	4794886.43	250.40	0	2000	78.5	78.5	3.0	0.0	68.5	7.3	-3.0	0.0	0.0	8.9	0.0	-0.0	-0.2	-0.2
80	454555.40	4794886.43	250.40	0	4000	73.3	73.3	3.0	0.0	68.5	24.8	-3.0	0.0	0.0	10.8	0.0	-0.0	-24.8	-24.8
81	454555.40	4794886.43	250.40	0	8000	64.2	64.2	3.0	0.0	68.5	88.3	-3.0	0.0	0.0	12.9	0.0	-0.0	-99.6	-99.6
82	454558.62	4794886.43	250.40	0	32	25.5	25.5	3.0	0.0	68.5	0.0	-5.4	0.0	0.0	0.0	0.0	-0.0	-34.6	-34.6
83	454558.62	4794886.43	250.40	0	63	44.7	44.7	3.0	0.0	68.5	0.1	-5.4	0.0	0.0	0.0	0.0	-0.0	-15.5	-15.5
84	454558.62	4794886.43	250.40	0	125	56.8	56.8	3.0	0.0	68.5	0.3	-1.0	0.0	0.0	0.0	0.0	-0.0	-8.0	-8.0
85	454558.62	4794886.43	250.40	0	250	59.3	59.3	3.0	0.0	68.5	0.8	-2.2	0.0	0.0	0.0	0.0	-0.0	-4.8	-4.8
86	454558.62	4794886.43	250.40	0	500	64.7	64.7	3.0	0.0	68.5	1.4	-3.0	0.0	0.0	0.0	0.0	-0.0	0.7	0.7
87	454558.62	4794886.43	250.40	0	1000	61.9	61.9	3.0	0.0	68.5	2.8	-3.0	0.0	0.0	0.0	0.0	-0.0	-3.4	-3.4
88	454558.62	4794886.43	250.40	0	2000	58.1	58.1	3.0	0.0	68.5	7.3	-3.0	0.0	0.0	0.0	0.0	-0.0	-11.7	-11.7
89	454558.62	4794886.43	250.40	0	4000	52.9	52.9	3.0	0.0	68.5	24.7	-3.0	0.0	0.0	0.0	0.0	-0.0	-34.3	-34.3
90	454558.62	4794886.43	250.40	0	8000	43.8	43.8	3.0	0.0	68.5	87.9	-3.0	0.0	0.0	0.0	0.0	-0.0	-106.7	-106.7

vert. Area Source, ISO 9613, Name: "Goshen Transformer East Wall", ID: "GOSHTRANSEAST"																			
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	454552.20	4794881.75	252.77	0	32	45.8	45.8	3.0	0.0	68.6	0.0	-5.1	0.0	0.0	3.8	0.0	-0.0	-18.4	-18.4
2	454552.20	4794881.75	252.77	0	63	65.0	65.0	3.0	0.0	68.6	0.1	-5.1	0.0	0.0	5.6	0.0	-0.0	-1.1	-1.1
3	454552.20	4794881.75	252.77	0	125	77.1	77.1	3.0	0.0	68.6	0.3	-0.8	0.0	0.0	7.8	0.0	-0.0	4.2	4.2
4	454552.20	4794881.75	252.77	0	250	79.6	79.6	3.0	0.0	68.6	0.8	-2.0	0.0	0.0	10.3	0.0	-0.0	4.9	4.9
5	454552.20	4794881.75	252.77	0	500	85.0	85.0	3.0	0.0	68.6	1.4	-2.7	0.0	0.0	13.0	0.0	-0.0	7.6	7.6
6	454552.20	4794881.75	252.77	0	1000	82.2	82.2	3.0	0.0	68.6	2.8	-2.7	0.0	0.0	15.9	0.0	-0.0	0.6	0.6
7	454552.20	4794881.75	252.77	0	2000	78.4	78.4	3.0	0.0	68.6	7.3	-2.7	0.0	0.0	18.1	0.0	-0.0	-9.9	-9.9
8	454552.20	4794881.75	252.77	0	4000	73.2	73.2	3.0	0.0	68.6	24.8	-2.7	0.0	0.0	18.9	0.0	-0.0	-33.4	-33.4
9	454552.20	4794881.75	252.77	0	8000	64.1	64.1	3.0	0.0	68.6	88.6	-2.7	0.0	0.0	19.4	0.0	-0.0	-106.8	-106.8
10	454552.20	4794885.30	252.77	0	32	42.4	42.4	3.0	0.0	68.6	0.0	-5.1	0.0	0.0	3.4	0.0	-0.0	-21.4	-21.4
11	454552.20	4794885.30	252.77	0	63	61.6	61.6	3.0	0.0	68.6	0.1	-5.1	0.0	0.0	5.1	0.0	-0.0	-4.0	-4.0
12	454552.20	4794885.30	252.77	0	125	73.7	73.7	3.0	0.0	68.6	0.3	-0.8	0.0	0.0	7.2	0.0	-0.0	1.3	1.3
13	454552.20	4794885.30	252.77	0	250	76.2	76.2	3.0	0.0	68.6	0.8	-2.0	0.0	0.0	9.7	0.0	-0.0	2.1	2.1
14	454552.20	4794885.30	252.77	0	500	81.6	81.6	3.0	0.0	68.6	1.4	-2.7	0.0	0.0	12.4	0.0	-0.0	4.9	4.9
15	454552.20	4794885.30	252.77	0	1000	78.8	78.8	3.0	0.0	68.6	2.8	-2.7	0.0	0.0	15.3	0.0	-0.0	-2.2	-2.2
16	454552.20	4794885.30	252.77	0	2000	75.0	75.0	3.0	0.0	68.6	7.3	-2.7	0.0	0.0	17.5	0.0	-0.0	-12.7	-12.7
17	454552.20	4794885.30	252.77	0	4000	69.8	69.8	3.0	0.0	68.6	24.9	-2.7	0.0	0.0	18.6	0.0	-0.0	-36.5	-36.5
18	454552.20	4794885.30	252.77	0	8000	60.7	60.7	3.0	0.0	68.6	88.6	-2.7	0.0	0.0	19.2	0.0	-0.0	-110.0	-110.0
19	454552.20	4794881.75	251.77	0	32	45.8	45.8	3.0	0.0	68.6	0.0	-5.3	0.0	0.0	5.5	0.0	-0.0	-20.1	-20.1
20	454552.20	4794881.75	251.77	0	63	65.0	65.0	3.0	0.0	68.6	0.1	-5.3	0.0	0.0	7.7	0.0	-0.0	-3.1	-3.1
21	454552.20	4794881.75	251.77	0	125	77.1	77.1	3.0	0.0	68.6	0.3	-0.9	0.0	0.0	10.1	0.0	-0.0	1.9	1.9
22	454552.20	4794881.75	251.77	0	250	79.6	79.6	3.0	0.0	68.6	0.8	-2.1	0.0	0.0	12.8	0.0	-0.0	2.5	2.5
23	454552.20	4794881.75	251.77	0	500	85.0	85.0	3.0	0.0	68.6	1.4	-2.8	0.0	0.0	15.7	0.0	-0.0	5.1	5.1
24	454552.20	4794881.75	251.77	0	1000	82.2	82.2	3.0	0.0	68.6	2.8	-2.8	0.0	0.0	18.2	0.0	-0.0	-1.6	-1.6
25	454552.20	4794881.75	251.77	0	2000	78.4	78.4	3.0	0.0	68.6	7.3	-2.8	0.0	0.0	19.0	0.0	-0.0	-10.7	-10.7
26	454552.20	4794881.75	251.77	0	4000	73.2	73.2	3.0	0.0	68.6	24.8	-2.8	0.0	0.0	19.5	0.0	-0.0	-33.9	-33.9
27	454552.20	4794881.75	251.77	0	8000	64.1	64.1	3.0	0.0	68.6	88.6	-2.8	0.0	0.0	19.7	0.0	-0.0	-107.0	-107.0
28	454552.20	4794885.30	251.77	0	32	42.4	42.4	3.0	0.0	68.6	0.0	-5.3	0.0	0.0	4.1	0.0	-0.0	-22.1	-22.1
29	454552.20	4794885.30	251.77	0	63	61.6	61.6	3.0	0.0	68.6	0.1	-5.3	0.0	0.0	6.0	0.0	-0.0	-4.8	-4.8

(Wind Speed = 6m/s)

Goshen Noise Results

vert. Area Source, ISO 9613, Name: "Goshen Transformer East Wall", ID: "GOSHTRANSEAST"																			
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)
30	454552.20	4794885.30	251.77	0	125	73.7	73.7	3.0	0.0	68.6	0.3	-0.9	0.0	0.0	8.3	0.0	-0.0	0.4	0.4
31	454552.20	4794885.30	251.77	0	250	76.2	76.2	3.0	0.0	68.6	0.8	-2.1	0.0	0.0	10.8	0.0	-0.0	1.1	1.1
32	454552.20	4794885.30	251.77	0	500	81.6	81.6	3.0	0.0	68.6	1.4	-2.8	0.0	0.0	13.6	0.0	-0.0	3.8	3.8
33	454552.20	4794885.30	251.77	0	1000	78.8	78.8	3.0	0.0	68.6	2.8	-2.8	0.0	0.0	16.3	0.0	-0.0	-3.0	-3.0
34	454552.20	4794885.30	251.77	0	2000	75.0	75.0	3.0	0.0	68.6	7.3	-2.8	0.0	0.0	17.7	0.0	-0.0	-12.8	-12.8
35	454552.20	4794885.30	251.77	0	4000	69.8	69.8	3.0	0.0	68.6	24.9	-2.8	0.0	0.0	18.7	0.0	-0.0	-36.5	-36.5
36	454552.20	4794885.30	251.77	0	8000	60.7	60.7	3.0	0.0	68.6	88.6	-2.8	0.0	0.0	19.3	0.0	-0.0	-110.0	-110.0
37	454552.20	4794881.75	250.77	0	32	45.8	45.8	3.0	0.0	68.6	0.0	-5.4	0.0	0.0	5.9	0.0	-0.0	-20.4	-20.4
38	454552.20	4794881.75	250.77	0	63	65.0	65.0	3.0	0.0	68.6	0.1	-5.4	0.0	0.0	8.3	0.0	-0.0	-3.6	-3.6
39	454552.20	4794881.75	250.77	0	125	77.1	77.1	3.0	0.0	68.6	0.3	-1.0	0.0	0.0	10.8	0.0	-0.0	1.3	1.3
40	454552.20	4794881.75	250.77	0	250	79.6	79.6	3.0	0.0	68.6	0.8	-2.2	0.0	0.0	13.6	0.0	-0.0	1.8	1.8
41	454552.20	4794881.75	250.77	0	500	85.0	85.0	3.0	0.0	68.6	1.4	-3.0	0.0	0.0	16.5	0.0	-0.0	4.4	4.4
42	454552.20	4794881.75	250.77	0	1000	82.2	82.2	3.0	0.0	68.6	2.8	-3.0	0.0	0.0	18.2	0.0	-0.0	-1.5	-1.5
43	454552.20	4794881.75	250.77	0	2000	78.4	78.4	3.0	0.0	68.6	7.3	-3.0	0.0	0.0	19.0	0.0	-0.0	-10.6	-10.6
44	454552.20	4794881.75	250.77	0	4000	73.2	73.2	3.0	0.0	68.6	24.8	-3.0	0.0	0.0	19.5	0.0	-0.0	-33.8	-33.8
45	454552.20	4794881.75	250.77	0	8000	64.1	64.1	3.0	0.0	68.6	88.6	-3.0	0.0	0.0	19.7	0.0	-0.0	-106.9	-106.9
46	454552.20	4794885.30	250.77	0	32	42.4	42.4	3.0	0.0	68.6	0.0	-5.4	0.0	0.0	4.5	0.0	-0.0	-22.3	-22.3
47	454552.20	4794885.30	250.77	0	63	61.6	61.6	3.0	0.0	68.6	0.1	-5.4	0.0	0.0	6.4	0.0	-0.0	-5.1	-5.1
48	454552.20	4794885.30	250.77	0	125	73.7	73.7	3.0	0.0	68.6	0.3	-1.0	0.0	0.0	8.7	0.0	-0.0	0.1	0.1
49	454552.20	4794885.30	250.77	0	250	76.2	76.2	3.0	0.0	68.6	0.8	-2.2	0.0	0.0	11.3	0.0	-0.0	0.8	0.8
50	454552.20	4794885.30	250.77	0	500	81.6	81.6	3.0	0.0	68.6	1.4	-3.0	0.0	0.0	14.1	0.0	-0.0	3.4	3.4
51	454552.20	4794885.30	250.77	0	1000	78.8	78.8	3.0	0.0	68.6	2.8	-3.0	0.0	0.0	16.3	0.0	-0.0	-2.9	-2.9
52	454552.20	4794885.30	250.77	0	2000	75.0	75.0	3.0	0.0	68.6	7.3	-3.0	0.0	0.0	17.7	0.0	-0.0	-12.7	-12.7
53	454552.20	4794885.30	250.77	0	4000	69.8	69.8	3.0	0.0	68.6	24.9	-3.0	0.0	0.0	18.7	0.0	-0.0	-36.4	-36.4
54	454552.20	4794885.30	250.77	0	8000	60.7	60.7	3.0	0.0	68.6	88.6	-3.0	0.0	0.0	19.3	0.0	-0.0	-109.9	-109.9
55	454552.20	4794881.75	253.77	0	32	45.8	45.8	3.0	0.0	68.6	0.0	-5.0	0.0	0.0	3.8	0.0	-0.0	-18.6	-18.6
56	454552.20	4794881.75	253.77	0	63	65.0	65.0	3.0	0.0	68.6	0.1	-5.0	0.0	0.0	4.9	0.0	-0.0	-0.6	-0.6
57	454552.20	4794881.75	253.77	0	125	77.1	77.1	3.0	0.0	68.6	0.3	-0.6	0.0	0.0	6.3	0.0	-0.0	5.5	5.5
58	454552.20	4794881.75	253.77	0	250	79.6	79.6	3.0	0.0	68.6	0.8	-1.9	0.0	0.0	8.2	0.0	-0.0	6.8	6.8
59	454552.20	4794881.75	253.77	0	500	85.0	85.0	3.0	0.0	68.6	1.4	-2.6	0.0	0.0	10.5	0.0	-0.0	10.0	10.0
60	454552.20	4794881.75	253.77	0	1000	82.2	82.2	3.0	0.0	68.6	2.8	-2.6	0.0	0.0	13.1	0.0	-0.0	3.3	3.3
61	454552.20	4794881.75	253.77	0	2000	78.4	78.4	3.0	0.0	68.6	7.3	-2.6	0.0	0.0	15.9	0.0	-0.0	-7.8	-7.8
62	454552.20	4794881.75	253.77	0	4000	73.2	73.2	3.0	0.0	68.6	24.8	-2.6	0.0	0.0	18.8	0.0	-0.0	-33.4	-33.4
63	454552.20	4794881.75	253.77	0	8000	64.1	64.1	3.0	0.0	68.6	88.6	-2.6	0.0	0.0	19.6	0.0	-0.0	-107.1	-107.1
64	454552.20	4794885.30	253.77	0	32	42.4	42.4	3.0	0.0	68.6	0.0	-5.0	0.0	0.0	3.5	0.0	-0.0	-21.6	-21.6
65	454552.20	4794885.30	253.77	0	63	61.6	61.6	3.0	0.0	68.6	0.1	-5.0	0.0	0.0	4.5	0.0	-0.0	-3.6	-3.6
66	454552.20	4794885.30	253.77	0	125	73.7	73.7	3.0	0.0	68.6	0.3	-0.6	0.0	0.0	6.0	0.0	-0.0	2.4	2.4
67	454552.20	4794885.30	253.77	0	250	76.2	76.2	3.0	0.0	68.6	0.8	-1.9	0.0	0.0	7.9	0.0	-0.0	3.8	3.8
68	454552.20	4794885.30	253.77	0	500	81.6	81.6	3.0	0.0	68.6	1.4	-2.6	0.0	0.0	10.2	0.0	-0.0	7.0	7.0
69	454552.20	4794885.30	253.77	0	1000	78.8	78.8	3.0	0.0	68.6	2.8	-2.6	0.0	0.0	12.8	0.0	-0.0	0.2	0.2
70	454552.20	4794885.30	253.77	0	2000	75.0	75.0	3.0	0.0	68.6	7.3	-2.6	0.0	0.0	15.6	0.0	-0.0	-10.9	-10.9
71	454552.20	4794885.30	253.77	0	4000	69.8	69.8	3.0	0.0	68.6	24.9	-2.6	0.0	0.0	18.5	0.0	-0.0	-36.5	-36.5
72	454552.20	4794885.30	253.77	0	8000	60.7	60.7	3.0	0.0	68.6	88.6	-2.6	0.0	0.0	19.4	0.0	-0.0	-110.3	-110.3
73	454552.20	4794881.75	249.88	0	32	44.7	44.7	3.0	0.0	68.6	0.0	-5.5	0.0	0.0	6.2	0.0	-0.0	-21.6	-21.6
74	454552.20	4794881.75	249.88	0	63	63.9	63.9	3.0	0.0	68.6	0.1	-5.5	0.0	0.0	8.6	0.0	-0.0	-4.9	-4.9
75	454552.20	4794881.75	249.88	0	125	76.0	76.0	3.0	0.0	68.6	0.3	-1.1	0.0	0.0	11.3	0.0	-0.0	-0.0	-0.0
76	454552.20	4794881.75	249.88	0	250	78.5	78.5	3.0	0.0	68.6	0.8	-2.3	0.0	0.0	14.1	0.0	-0.0	0.4	0.4
77	454552.20	4794881.75	249.88	0	500	83.9	83.9	3.0	0.0	68.6	1.4	-3.1	0.0	0.0	17.0	0.0	-0.0	3.0	3.0
78	454552.20	4794881.75	249.88	0	1000	81.1	81.1	3.0	0.0	68.6	2.8	-3.1	0.0	0.0	18.2	0.0	-0.0	-2.4	-2.4
79	454552.20	4794881.75	249.88	0	2000	77.3	77.3	3.0	0.0	68.6	7.3	-3.1	0.0	0.0	19.0	0.0	-0.0	-11.5	-11.5
80	454552.20	4794881.75	249.88	0	4000	72.1	72.1	3.0	0.0	68.6	24.8	-3.1	0.0	0.0	19.5	0.0	-0.0	-34.7	-34.7
81	454552.20	4794881.75	249.88	0	8000	63.0	63.0	3.0	0.0	68.6	88.6	-3.1	0.0	0.0	19.7	0.0	-0.0	-107.8	-107.8
82	454552.20	4794885.30	249.88	0	32	41.4	41.4	3.0	0.0	68.6	0.0	-5.5	0.0	0.0	4.7	0.0	-0.0	-23.4	-23.4
83	454552.20	4794885.30	249.88	0	63	60.6	60.6	3.0	0.0	68.6	0.1	-5.5	0.0	0.0	6.7	0.0	-0.0	-6.3	-6.3
84	454552.20	4794885.30	249.88	0	125	72.7	72.7	3.0	0.0	68.6	0.3	-1.1	0.0	0.0	9.0	0.0	-0.0	-1.1	-1.1
85	454552.20	4794885.30	249.88	0	250	75.2	75.2	3.0	0.0	68.6	0.8	-2.3	0.0	0.0	11.6	0.0	-0.0	-0.5	-0.5
86	454552.20	4794885.30	249.88	0	500	80.6	80.6	3.0	0.0	68.6	1.4	-3.1	0.0	0.0	14.4	0.0	-0.0	2.2	2.2
87	454552.20	4794885.30	249.88	0	1000	77.8	77.8	3.0	0.0	68.6	2.8	-3.1	0.0	0.0	16.3	0.0	-0.0	-3.8	-3.8
88	454552.20	4794885.30	249.88	0	2000	74.0	74.0	3.0	0.0	68.6	7.3	-3.1	0.0	0.0	17.7	0.0	-0.0	-13.6	-13.6
89	454552.20	4794885.30	249.88	0	4000	68.8	68.8	3.0	0.0	68.6	24.9	-3.1	0.0	0.0	18.7	0.0	-0.0	-37.3	-37.3
90	454552.20	4794885.30	249.88	0	8000	59.7	59.7	3.0	0.0	68.6	88.6	-3.1	0.0	0.0	19.3	0.0	-0.0	-110.8	-110.8

(Wind Speed = 6m/s)

Goshen Noise Results

vert. Area Source, ISO 9613, Name: "Goshen Transformer East Wall", ID: "GOSHTRANSEAST"																			
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	454558.66	4794881.20	254.29	0	32	44.7	44.7	3.0	0.0	68.5	0.0	-5.0	0.0	0.0	0.0	0.0	-0.0	-15.9	-15.9
2	454558.66	4794881.20	254.29	0	63	63.9	63.9	3.0	0.0	68.5	0.1	-5.0	0.0	0.0	0.0	0.0	-0.0	3.2	3.2
3	454558.66	4794881.20	254.29	0	125	76.0	76.0	3.0	0.0	68.5	0.3	0.0	0.0	0.0	0.0	0.0	-0.0	10.2	10.2
4	454558.66	4794881.20	254.29	0	250	78.5	78.5	3.0	0.0	68.5	0.8	-1.5	0.0	0.0	0.0	0.0	-0.0	13.7	13.7
5	454558.66	4794881.20	254.29	0	500	83.9	83.9	3.0	0.0	68.5	1.4	-2.4	0.0	0.0	0.0	0.0	-0.0	19.3	19.3
6	454558.66	4794881.20	254.29	0	1000	81.1	81.1	3.0	0.0	68.5	2.8	-2.4	0.0	0.0	0.0	0.0	-0.0	15.2	15.2
7	454558.66	4794881.20	254.29	0	2000	77.3	77.3	3.0	0.0	68.5	7.3	-2.4	0.0	0.0	0.0	0.0	-0.0	6.9	6.9
8	454558.66	4794881.20	254.29	0	4000	72.1	72.1	3.0	0.0	68.5	24.6	-2.4	0.0	0.0	0.0	0.0	-0.0	-15.7	-15.7
9	454558.66	4794881.20	254.29	0	8000	63.0	63.0	3.0	0.0	68.5	87.8	-2.4	0.0	0.0	0.0	0.0	-0.0	-88.0	-88.0
10	454558.66	4794884.75	254.29	0	32	44.1	44.1	3.0	0.0	68.5	0.0	-5.0	0.0	0.0	0.0	0.0	-0.0	-16.4	-16.4
11	454558.66	4794884.75	254.29	0	63	63.3	63.3	3.0	0.0	68.5	0.1	-5.0	0.0	0.0	0.0	0.0	-0.0	2.7	2.7
12	454558.66	4794884.75	254.29	0	125	75.4	75.4	3.0	0.0	68.5	0.3	-0.0	0.0	0.0	0.0	0.0	-0.0	9.6	9.6
13	454558.66	4794884.75	254.29	0	250	77.9	77.9	3.0	0.0	68.5	0.8	-1.5	0.0	0.0	0.0	0.0	-0.0	13.1	13.1
14	454558.66	4794884.75	254.29	0	500	83.3	83.3	3.0	0.0	68.5	1.4	-2.4	0.0	0.0	0.0	0.0	-0.0	18.8	18.8
15	454558.66	4794884.75	254.29	0	1000	80.5	80.5	3.0	0.0	68.5	2.8	-2.4	0.0	0.0	0.0	0.0	-0.0	14.6	14.6
16	454558.66	4794884.75	254.29	0	2000	76.7	76.7	3.0	0.0	68.5	7.3	-2.4	0.0	0.0	0.0	0.0	-0.0	6.3	6.3
17	454558.66	4794884.75	254.29	0	4000	71.5	71.5	3.0	0.0	68.5	24.6	-2.4	0.0	0.0	0.0	0.0	-0.0	-16.2	-16.2
18	454558.66	4794884.75	254.29	0	8000	62.4	62.4	3.0	0.0	68.5	87.9	-2.4	0.0	0.0	0.0	0.0	-0.0	-88.6	-88.6
19	454558.66	4794881.20	253.29	0	32	44.7	44.7	3.0	0.0	68.5	0.0	-5.1	0.0	0.0	0.0	0.0	-0.0	-15.8	-15.8
20	454558.66	4794881.20	253.29	0	63	63.9	63.9	3.0	0.0	68.5	0.1	-5.1	0.0	0.0	0.0	0.0	-0.0	3.3	3.3
21	454558.66	4794881.20	253.29	0	125	76.0	76.0	3.0	0.0	68.5	0.3	-0.7	0.0	0.0	0.0	0.0	-0.0	10.8	10.8
22	454558.66	4794881.20	253.29	0	250	78.5	78.5	3.0	0.0	68.5	0.8	-1.9	0.0	0.0	0.0	0.0	-0.0	14.1	14.1
23	454558.66	4794881.20	253.29	0	500	83.9	83.9	3.0	0.0	68.5	1.4	-2.6	0.0	0.0	0.0	0.0	-0.0	19.6	19.6
24	454558.66	4794881.20	253.29	0	1000	81.1	81.1	3.0	0.0	68.5	2.8	-2.6	0.0	0.0	0.0	0.0	-0.0	15.4	15.4
25	454558.66	4794881.20	253.29	0	2000	77.3	77.3	3.0	0.0	68.5	7.3	-2.6	0.0	0.0	0.0	0.0	-0.0	7.1	7.1
26	454558.66	4794881.20	253.29	0	4000	72.1	72.1	3.0	0.0	68.5	24.6	-2.6	0.0	0.0	0.0	0.0	-0.0	-15.4	-15.4
27	454558.66	4794881.20	253.29	0	8000	63.0	63.0	3.0	0.0	68.5	87.8	-2.6	0.0	0.0	0.0	0.0	-0.0	-87.7	-87.7
28	454558.66	4794884.75	253.29	0	32	44.1	44.1	3.0	0.0	68.5	0.0	-5.1	0.0	0.0	0.0	0.0	-0.0	-16.3	-16.3
29	454558.66	4794884.75	253.29	0	63	63.3	63.3	3.0	0.0	68.5	0.1	-5.1	0.0	0.0	0.0	0.0	-0.0	2.8	2.8
30	454558.66	4794884.75	253.29	0	125	75.4	75.4	3.0	0.0	68.5	0.3	-0.7	0.0	0.0	0.0	0.0	-0.0	10.3	10.3
31	454558.66	4794884.75	253.29	0	250	77.9	77.9	3.0	0.0	68.5	0.8	-1.9	0.0	0.0	0.0	0.0	-0.0	13.6	13.6
32	454558.66	4794884.75	253.29	0	500	83.3	83.3	3.0	0.0	68.5	1.4	-2.6	0.0	0.0	0.0	0.0	-0.0	19.0	19.0
33	454558.66	4794884.75	253.29	0	1000	80.5	80.5	3.0	0.0	68.5	2.8	-2.6	0.0	0.0	0.0	0.0	-0.0	14.9	14.9
34	454558.66	4794884.75	253.29	0	2000	76.7	76.7	3.0	0.0	68.5	7.3	-2.6	0.0	0.0	0.0	0.0	-0.0	6.6	6.6
35	454558.66	4794884.75	253.29	0	4000	71.5	71.5	3.0	0.0	68.5	24.6	-2.6	0.0	0.0	0.0	0.0	-0.0	-16.0	-16.0
36	454558.66	4794884.75	253.29	0	8000	62.4	62.4	3.0	0.0	68.5	87.9	-2.6	0.0	0.0	0.0	0.0	-0.0	-88.3	-88.3
37	454558.66	4794881.20	251.29	0	32	44.7	44.7	3.0	0.0	68.5	0.0	-5.3	0.0	0.0	2.5	0.0	-0.0	-18.0	-18.0
38	454558.66	4794881.20	251.29	0	63	63.9	63.9	3.0	0.0	68.5	0.1	-5.3	0.0	0.0	3.1	0.0	-0.0	0.5	0.5
39	454558.66	4794881.20	251.29	0	125	76.0	76.0	3.0	0.0	68.5	0.3	-0.9	0.0	0.0	3.8	0.0	-0.0	7.3	7.3
40	454558.66	4794881.20	251.29	0	250	78.5	78.5	3.0	0.0	68.5	0.8	-2.1	0.0	0.0	4.6	0.0	-0.0	9.8	9.8
41	454558.66	4794881.20	251.29	0	500	83.9	83.9	3.0	0.0	68.5	1.4	-2.9	0.0	0.0	5.5	0.0	-0.0	14.3	14.3
42	454558.66	4794881.20	251.29	0	1000	81.1	81.1	3.0	0.0	68.5	2.8	-2.9	0.0	0.0	6.8	0.0	-0.0	8.9	8.9
43	454558.66	4794881.20	251.29	0	2000	77.3	77.3	3.0	0.0	68.5	7.3	-2.9	0.0	0.0	8.5	0.0	-0.0	-1.1	-1.1
44	454558.66	4794881.20	251.29	0	4000	72.1	72.1	3.0	0.0	68.5	24.6	-2.9	0.0	0.0	10.6	0.0	-0.0	-25.7	-25.7
45	454558.66	4794881.20	251.29	0	8000	63.0	63.0	3.0	0.0	68.5	87.8	-2.9	0.0	0.0	13.0	0.0	-0.0	-100.5	-100.5
46	454558.66	4794884.75	251.29	0	32	44.1	44.1	3.0	0.0	68.5	0.0	-5.3	0.0	0.0	0.0	0.0	-0.0	-16.1	-16.1
47	454558.66	4794884.75	251.29	0	63	63.3	63.3	3.0	0.0	68.5	0.1	-5.3	0.0	0.0	0.0	0.0	-0.0	3.0	3.0
48	454558.66	4794884.75	251.29	0	125	75.4	75.4	3.0	0.0	68.5	0.3	-0.9	0.0	0.0	0.0	0.0	-0.0	10.5	10.5
49	454558.66	4794884.75	251.29	0	250	77.9	77.9	3.0	0.0	68.5	0.8	-2.1	0.0	0.0	0.0	0.0	-0.0	13.8	13.8
50	454558.66	4794884.75	251.29	0	500	83.3	83.3	3.0	0.0	68.5	1.4	-2.9	0.0	0.0	0.0	0.0	-0.0	19.3	19.3
51	454558.66	4794884.75	251.29	0	1000	80.5	80.5	3.0	0.0	68.5	2.8	-2.9	0.0	0.0	0.0	0.0	-0.0	15.1	15.1
52	454558.66	4794884.75	251.29	0	2000	76.7	76.7	3.0	0.0	68.5	7.3	-2.9	0.0	0.0	0.0	0.0	-0.0	6.8	6.8
53	454558.66	4794884.75	251.29	0	4000	71.5	71.5	3.0	0.0	68.5	24.6	-2.9	0.0	0.0	0.0	0.0	-0.0	-15.7	-15.7
54	454558.66	4794884.75	251.29	0	8000	62.4	62.4	3.0	0.0	68.5	87.9	-2.9	0.0	0.0	0.0	0.0	-0.0	-88.1	-88.1
55	454558.66	4794881.20	252.29	0	32	44.7	44.7	3.0	0.0	68.5	0.0	-5.2	0.0	0.0	0.0	0.0	-0.0	-15.7	-15.7
56	454558.66	4794881.20	252.29	0	63	63.9	63.9	3.0	0.0	68.5	0.1	-5.2	0.0	0.0	0.0	0.0	-0.0	3.5	3.5
57	454558.66	4794881.20	252.29	0	125	76.0	76.0	3.0	0.0	68.5	0.3	-0.8	0.0	0.0	0.0	0.0	-0.0	10.9	10.9
58	454558.66	4794881.20	252.29	0	250	78.5	78.5	3.0	0.0	68.5	0.8	-2.0	0.0	0.0	0.0	0.0	-0.0	14.2	14.2
59	454558.66	4794881.20	252.29	0	500	83.9	83.9	3.0	0.0	68.5	1.4	-2.8	0.0	0.0	0.0	0.0	-0.0	19.7	19.7
60	454558.66	4794881.20	252.29	0	1000	81.1	81.1	3.0	0.0	68.5	2.8	-2.8	0.0	0.0	0.0	0.0	-0.0	15.5	15.5
61	454558.66	4794881.20	252.29	0	2000	77.3	77.3	3.0	0.0	68.5	7.3	-2.8	0.0	0.0	0.0	0.0	-0.0	7.2	7.2
62	454558.66	4794881.20	252.29	0	4000	72.1	72.1	3.0	0.0	68.5	24.6	-2.8	0.0	0.0	0.0	0.0	-0.0	-15.3	-15.3
63	454558.66	4794881.20	252.29	0	8000	63.0	63.0	3.0	0.0	68.5	87.8	-2.8	0.0	0.0	0.0	0.0	-0.0	-87.6	-87.6

(Wind Speed = 6m/s)

Goshen Noise Results

vert. Area Source, ISO 9613, Name: "Goshen Transformer East Wall", ID: "GOSHTRANSEAST"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahou5	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)
64	454558.66	4794884.75	252.29	0	32	44.1	44.1	3.0	0.0	68.5	0.0	-5.2	0.0	0.0	0.0	0.0	-0.0	-16.2	-16.2
65	454558.66	4794884.75	252.29	0	63	63.3	63.3	3.0	0.0	68.5	0.1	-5.2	0.0	0.0	0.0	0.0	-0.0	2.9	2.9
66	454558.66	4794884.75	252.29	0	125	75.4	75.4	3.0	0.0	68.5	0.3	-0.8	0.0	0.0	0.0	0.0	-0.0	10.4	10.4
67	454558.66	4794884.75	252.29	0	250	77.9	77.9	3.0	0.0	68.5	0.8	-2.0	0.0	0.0	0.0	0.0	-0.0	13.7	13.7
68	454558.66	4794884.75	252.29	0	500	83.3	83.3	3.0	0.0	68.5	1.4	-2.8	0.0	0.0	0.0	0.0	-0.0	19.2	19.2
69	454558.66	4794884.75	252.29	0	1000	80.5	80.5	3.0	0.0	68.5	2.8	-2.8	0.0	0.0	0.0	0.0	-0.0	15.0	15.0
70	454558.66	4794884.75	252.29	0	2000	76.7	76.7	3.0	0.0	68.5	7.3	-2.8	0.0	0.0	0.0	0.0	-0.0	6.7	6.7
71	454558.66	4794884.75	252.29	0	4000	71.5	71.5	3.0	0.0	68.5	24.6	-2.8	0.0	0.0	0.0	0.0	-0.0	-15.9	-15.9
72	454558.66	4794884.75	252.29	0	8000	62.4	62.4	3.0	0.0	68.5	87.9	-2.8	0.0	0.0	0.0	0.0	-0.0	-88.2	-88.2
73	454558.66	4794881.20	250.40	0	32	43.6	43.6	3.0	0.0	68.5	0.0	-5.4	0.0	0.0	2.8	0.0	-0.0	-19.3	-19.3
74	454558.66	4794881.20	250.40	0	63	62.8	62.8	3.0	0.0	68.5	0.1	-5.4	0.0	0.0	3.8	0.0	-0.0	-1.2	-1.2
75	454558.66	4794881.20	250.40	0	125	74.9	74.9	3.0	0.0	68.5	0.3	-1.0	0.0	0.0	5.2	0.0	-0.0	5.0	5.0
76	454558.66	4794881.20	250.40	0	250	77.4	77.4	3.0	0.0	68.5	0.8	-2.2	0.0	0.0	7.0	0.0	-0.0	6.4	6.4
77	454558.66	4794881.20	250.40	0	500	82.8	82.8	3.0	0.0	68.5	1.4	-3.0	0.0	0.0	9.2	0.0	-0.0	9.7	9.7
78	454558.66	4794881.20	250.40	0	1000	80.0	80.0	3.0	0.0	68.5	2.8	-3.0	0.0	0.0	11.7	0.0	-0.0	3.0	3.0
79	454558.66	4794881.20	250.40	0	2000	76.2	76.2	3.0	0.0	68.5	7.3	-3.0	0.0	0.0	14.5	0.0	-0.0	-8.1	-8.1
80	454558.66	4794881.20	250.40	0	4000	71.0	71.0	3.0	0.0	68.5	24.6	-3.0	0.0	0.0	17.4	0.0	-0.0	-33.5	-33.5
81	454558.66	4794881.20	250.40	0	8000	61.9	61.9	3.0	0.0	68.5	87.8	-3.0	0.0	0.0	19.0	0.0	-0.0	-107.4	-107.4
82	454558.66	4794884.75	250.40	0	32	43.1	43.1	3.0	0.0	68.5	0.0	-5.4	0.0	0.0	0.0	0.0	-0.0	-17.0	-17.0
83	454558.66	4794884.75	250.40	0	63	62.3	62.3	3.0	0.0	68.5	0.1	-5.4	0.0	0.0	0.0	0.0	-0.0	2.1	2.1
84	454558.66	4794884.75	250.40	0	125	74.4	74.4	3.0	0.0	68.5	0.3	-1.0	0.0	0.0	0.0	0.0	-0.0	9.6	9.6
85	454558.66	4794884.75	250.40	0	250	76.9	76.9	3.0	0.0	68.5	0.8	-2.2	0.0	0.0	0.0	0.0	-0.0	12.9	12.9
86	454558.66	4794884.75	250.40	0	500	82.3	82.3	3.0	0.0	68.5	1.4	-3.0	0.0	0.0	0.0	0.0	-0.0	18.4	18.4
87	454558.66	4794884.75	250.40	0	1000	79.5	79.5	3.0	0.0	68.5	2.8	-3.0	0.0	0.0	0.0	0.0	-0.0	14.2	14.2
88	454558.66	4794884.75	250.40	0	2000	75.7	75.7	3.0	0.0	68.5	7.3	-3.0	0.0	0.0	0.0	0.0	-0.0	5.9	5.9
89	454558.66	4794884.75	250.40	0	4000	70.5	70.5	3.0	0.0	68.5	24.6	-3.0	0.0	0.0	0.0	0.0	-0.0	-16.7	-16.7
90	454558.66	4794884.75	250.40	0	8000	61.4	61.4	3.0	0.0	68.5	87.9	-3.0	0.0	0.0	0.0	0.0	-0.0	-89.0	-89.0

vert. Area Source, ISO 9613, Name: "Goshen Transformer South", ID: "GOSHTRANSSOUTH"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahou5	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	454555.43	4794879.31	253.77	0	32	47.0	47.0	3.0	0.0	68.5	0.0	-5.0	0.0	0.0	0.0	0.0	-0.0	-13.5	-13.5
2	454555.43	4794879.31	253.77	0	63	66.2	66.2	3.0	0.0	68.5	0.1	-5.0	0.0	0.0	0.0	0.0	-0.0	5.6	5.6
3	454555.43	4794879.31	253.77	0	125	78.3	78.3	3.0	0.0	68.5	0.3	-0.6	0.0	0.0	0.0	0.0	-0.0	13.1	13.1
4	454555.43	4794879.31	253.77	0	250	80.8	80.8	3.0	0.0	68.5	0.8	-1.8	0.0	0.0	0.0	0.0	-0.0	16.3	16.3
5	454555.43	4794879.31	253.77	0	500	86.2	86.2	3.0	0.0	68.5	1.4	-2.6	0.0	0.0	0.0	0.0	-0.0	21.8	21.8
6	454555.43	4794879.31	253.77	0	1000	83.4	83.4	3.0	0.0	68.5	2.8	-2.6	0.0	0.0	0.0	0.0	-0.0	17.7	17.7
7	454555.43	4794879.31	253.77	0	2000	79.6	79.6	3.0	0.0	68.5	7.3	-2.6	0.0	0.0	0.0	0.0	-0.0	9.3	9.3
8	454555.43	4794879.31	253.77	0	4000	74.4	74.4	3.0	0.0	68.5	24.7	-2.6	0.0	0.0	0.0	0.0	-0.0	-13.3	-13.3
9	454555.43	4794879.31	253.77	0	8000	65.3	65.3	3.0	0.0	68.5	88.1	-2.6	0.0	0.0	0.0	0.0	-0.0	-85.8	-85.8
10	454555.43	4794879.31	250.77	0	32	47.0	47.0	3.0	0.0	68.5	0.0	-5.4	0.0	0.0	4.2	0.0	-0.0	-17.4	-17.4
11	454555.43	4794879.31	250.77	0	63	66.2	66.2	3.0	0.0	68.5	0.1	-5.4	0.0	0.0	4.6	0.0	-0.0	1.4	1.4
12	454555.43	4794879.31	250.77	0	125	78.3	78.3	3.0	0.0	68.5	0.3	-1.0	0.0	0.0	4.8	0.0	-0.0	8.6	8.6
13	454555.43	4794879.31	250.77	0	250	80.8	80.8	3.0	0.0	68.5	0.8	-2.2	0.0	0.0	5.2	0.0	-0.0	11.5	11.5
14	454555.43	4794879.31	250.77	0	500	86.2	86.2	3.0	0.0	68.5	1.4	-2.9	0.0	0.0	5.7	0.0	-0.0	16.5	16.5
15	454555.43	4794879.31	250.77	0	1000	83.4	83.4	3.0	0.0	68.5	2.8	-2.9	0.0	0.0	6.5	0.0	-0.0	11.5	11.5
16	454555.43	4794879.31	250.77	0	2000	79.6	79.6	3.0	0.0	68.5	7.3	-2.9	0.0	0.0	7.8	0.0	-0.0	1.9	1.9
17	454555.43	4794879.31	250.77	0	4000	74.4	74.4	3.0	0.0	68.5	24.7	-2.9	0.0	0.0	9.5	0.0	-0.0	-22.4	-22.4
18	454555.43	4794879.31	250.77	0	8000	65.3	65.3	3.0	0.0	68.5	88.1	-2.9	0.0	0.0	11.8	0.0	-0.0	-97.2	-97.2
19	454555.43	4794879.31	251.77	0	32	47.0	47.0	3.0	0.0	68.5	0.0	-5.3	0.0	0.0	4.8	0.0	-0.0	-18.1	-18.1
20	454555.43	4794879.31	251.77	0	63	66.2	66.2	3.0	0.0	68.5	0.1	-5.3	0.0	0.0	4.8	0.0	-0.0	1.1	1.1
21	454555.43	4794879.31	251.77	0	125	78.3	78.3	3.0	0.0	68.5	0.3	-0.9	0.0	0.0	4.8	0.0	-0.0	8.5	8.5
22	454555.43	4794879.31	251.77	0	250	80.8	80.8	3.0	0.0	68.5	0.8	-2.1	0.0	0.0	4.8	0.0	-0.0	11.8	11.8
23	454555.43	4794879.31	251.77	0	500	86.2	86.2	3.0	0.0	68.5	1.4	-2.8	0.0	0.0	4.8	0.0	-0.0	17.3	17.3
24	454555.43	4794879.31	251.77	0	1000	83.4	83.4	3.0	0.0	68.5	2.8	-2.8	0.0	0.0	4.8	0.0	-0.0	13.1	13.1
25	454555.43	4794879.31	251.77	0	2000	79.6	79.6	3.0	0.0	68.5	7.3	-2.8	0.0	0.0	4.8	0.0	-0.0	4.8	4.8
26	454555.43	4794879.31	251.77	0	4000	74.4	74.4	3.0	0.0	68.5	24.7	-2.8	0.0	0.0	4.8	0.0	-0.0	-17.8	-17.8
27	454555.43	4794879.31	251.77	0	8000	65.3	65.3	3.0	0.0	68.5	88.1	-2.8	0.0	0.0	4.8	0.0	-0.0	-90.3	-90.3
28	454555.43	4794879.31	252.77	0	32	47.0	47.0	3.0	0.0	68.5	0.0	-5.1	0.0	0.0	0.0	0.0	-0.0	-13.4	-13.4
29	454555.43	4794879.31	252.77	0	63	66.2	66.2	3.0	0.0	68.5	0.1	-5.1	0.0	0.0	0.0	0.0	-0.0	5.7	5.7
30	454555.43	4794879.31	252.77	0	125	78.3	78.3	3.0	0.0	68.5	0.3	-0.7	0.0	0.0	0.0	0.0	-0.0	13.2	13.2
31	454555.43	4794879.31	252.77	0	250	80.8	80.8	3.0	0.0	68.5	0.8	-2.0	0.0	0.0	0.0	0.0	-0.0	16.5	16.5
32	454555.43	4794879.31	252.77	0	500	86.2	86.2	3.0	0.0	68.5	1.4	-2.7	0.0	0.0	0.0	0.0	-0.0	21.9	21.9
33	454555.43	4794879.31	252.77	0	1000	83.4	83.4	3.0	0.0	68.5	2.8	-2.7	0.0	0.0	0.0	0.0	-0.0	17.8	17.8

(Wind Speed = 6m/s)

Goshen Noise Results

vert. Area Source, ISO 9613, Name: "Goshen Transformer South", ID: "GOSHTRANSOUTH"																			
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)
34	454555.43	4794879.31	252.77	0	2000	79.6	79.6	3.0	0.0	68.5	7.3	-2.7	0.0	0.0	0.0	0.0	-0.0	9.5	9.5
35	454555.43	4794879.31	252.77	0	4000	74.4	74.4	3.0	0.0	68.5	24.7	-2.7	0.0	0.0	0.0	0.0	-0.0	-13.2	-13.2
36	454555.43	4794879.31	252.77	0	8000	65.3	65.3	3.0	0.0	68.5	88.1	-2.7	0.0	0.0	0.0	0.0	-0.0	-85.7	-85.7
37	454555.43	4794879.31	249.88	0	32	46.0	46.0	3.0	0.0	68.5	0.0	-5.5	0.0	0.0	4.5	0.0	-0.0	-18.6	-18.6
38	454555.43	4794879.31	249.88	0	63	65.2	65.2	3.0	0.0	68.5	0.1	-5.5	0.0	0.0	5.1	0.0	-0.0	-0.1	-0.1
39	454555.43	4794879.31	249.88	0	125	77.3	77.3	3.0	0.0	68.5	0.3	-1.1	0.0	0.0	5.9	0.0	-0.0	6.6	6.6
40	454555.43	4794879.31	249.88	0	250	79.8	79.8	3.0	0.0	68.5	0.8	-2.3	0.0	0.0	7.0	0.0	-0.0	8.8	8.8
41	454555.43	4794879.31	249.88	0	500	85.2	85.2	3.0	0.0	68.5	1.4	-3.0	0.0	0.0	8.6	0.0	-0.0	12.7	12.7
42	454555.43	4794879.31	249.88	0	1000	82.4	82.4	3.0	0.0	68.5	2.8	-3.0	0.0	0.0	10.6	0.0	-0.0	6.5	6.5
43	454555.43	4794879.31	249.88	0	2000	78.6	78.6	3.0	0.0	68.5	7.3	-3.0	0.0	0.0	13.0	0.0	-0.0	-4.2	-4.2
44	454555.43	4794879.31	249.88	0	4000	73.4	73.4	3.0	0.0	68.5	24.7	-3.0	0.0	0.0	15.7	0.0	-0.0	-29.5	-29.5
45	454555.43	4794879.31	249.88	0	8000	64.3	64.3	3.0	0.0	68.5	88.1	-3.0	0.0	0.0	18.5	0.0	-0.0	-104.9	-104.9
46	454555.43	4794879.31	250.77	1	4000	74.4	74.4	3.0	0.0	68.7	25.0	-3.0	0.0	0.0	5.3	0.0	6.0	-24.6	-24.6
47	454555.43	4794879.31	250.77	1	8000	65.3	65.3	3.0	0.0	68.7	89.3	-3.0	0.0	0.0	5.7	0.0	3.6	-96.0	-96.0
48	454555.43	4794879.31	251.77	1	4000	74.4	74.4	3.0	0.0	68.7	25.0	-2.9	0.0	0.0	4.8	0.0	6.0	-24.2	-24.2
49	454555.43	4794879.31	251.77	1	8000	65.3	65.3	3.0	0.0	68.7	89.3	-2.9	0.0	0.0	4.8	0.0	3.6	-95.2	-95.2

(Wind Speed = 6m/s)

## **Appendix E: Linear (unweighted) turbine sound power levels**

The following tables are reproductions of the turbine noise emission tables provided in Section 9. However, the octave band sound power levels are provided as a linear level (i.e. with no weighting applied). The sound power levels provided below, and in Section 9 are equivalent.

**Table E-A. General Electric Model 1.6-100 LNTE**

<b>Associated Project:</b> Goshen Wind Energy Centre											
<b>Make:</b> General Electric											
<b>Model:</b> GE 1.6-100 LNTE											
<b>Electrical Rating:</b> 1.6 Megawatts											
<b>Hub Height (m):</b> 80 metres											
<b>Wind Shear Coefficient:</b> 0.29											
<b>Source of Data:</b> Provided by General Electric (Appendix B)											
		Linear Octave Band Sound Power Level (dB(lin))									
		Manufacturer's Emission Levels					Adjusted Emission Levels				
10m Height Wind Speed (m/s)		6	7	8	9	10	6	7	8	9	10
Frequency (Hz)	63	106.5	110.2	110.3	110.3	110.2	110.3	110.2	110.2	110.2	110.2
	125	104.5	107.7	107.9	107.9	107.8	107.9	107.8	107.8	107.8	107.8
	250	103.3	104	103.9	104	104.1	103.9	104.1	104.1	104.1	104.1
	500	98.7	100.3	99.8	99.9	100.2	99.8	100.2	100.2	100.2	100.2
	1000	91.8	97.1	97.5	97.6	97.8	97.5	97.8	97.8	97.8	97.8
	2000	91.2	94.5	94.5	94.3	93.9	94.5	93.9	93.9	93.9	93.9
	4000	87.9	88.7	88.1	87.4	86.9	88.1	86.9	86.9	86.9	86.9
	8000	71.4	71.5	71.7	70.5	70.2	71.7	70.2	70.2	70.2	70.2
Overall A-weighted		100.4	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0

**Table E-B. General Electric Model 1.56-100**

<b>Associated Project:</b> Goshen Wind Energy Centre											
<b>Make:</b> General Electric											
<b>Model:</b> GE 1.56-100											
<b>Electrical Rating:</b> 1.56 Megawatts											
<b>Hub Height (m):</b> 80 metres											
<b>Wind Shear Coefficient:</b> 0.29											
<b>Source of Data:</b> Provided by General Electric (Appendix B)											
		Linear Octave Band Sound Power Level (dB(lin))									
		Manufacturer's Emission Levels					Adjusted Emission Levels				
10m Height Wind Speed (m/s)		6	7	8	9	10	6	7	8	9	10
Frequency (Hz)	63	112.4	116.7	117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4
	125	106.2	110.3	110.9	111.0	110.9	110.9	111.0	110.9	110.9	110.9
	250	100.5	102.5	102.8	102.8	102.8	102.8	102.8	102.8	102.8	102.8
	500	97.8	98.9	97.8	97.7	97.7	97.8	97.7	97.7	97.7	97.7
	1000	95.2	99.6	99.1	98.9	98.8	99.1	98.9	98.8	98.8	98.8
	2000	90.1	96.0	96.8	96.9	97.0	96.8	96.9	97.0	97.0	97.0
	4000	83.6	87.4	87.8	88.2	88.5	87.8	88.2	88.5	88.5	88.5
	8000	66.9	70.0	70.1	69.6	69.4	70.1	69.6	69.4	69.4	69.4
Overall A-weighted		100.3	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0

**Table E-C. ENERCON Model E-48**

<b>Associated Project:</b> Zurich Wind Project											
<b>Make:</b> ENERCON											
<b>Model:</b> E-48											
<b>Electrical Rating:</b> 800 kilowatts											
<b>Hub Height (m):</b> 76 metres											
<b>Wind Shear Coefficient:</b> 0.29											
<b>Source of Data:</b> Provided by ENERCON (Appendix B)											
		Linear Octave Band Sound Power Level (dB(lin))									
		Manufacturer's Emission Levels					Adjusted Emission Levels				
10 metre Height Wind Speed (m/s)		6	7	8	9	10	6	7	8	9	10
Frequency (Hz)	63	105.7	107.8	105.8	106.0	104.8	105.8	104.8	104.8	104.8	104.8
	125	99.7	102.4	102.1	103.4	100.5	102.1	100.5	100.5	100.5	100.5
	250	99.1	102.4	103.7	104.7	101.9	103.7	101.9	101.9	101.9	101.9
	500	96.0	98.9	100.3	100.7	100.0	100.3	100.0	100.0	100.0	100.0
	1000	92.6	94.1	95.5	95.1	97.9	95.5	97.9	97.9	97.9	97.9
	2000	86.2	87.8	87.9	88.8	91.5	87.9	91.5	91.5	91.5	91.5
	4000	82.6	85.1	84.8	87.8	86.6	84.8	86.6	86.6	86.6	86.6
	8000	81.3	84.7	84.7	88.2	85.7	84.7	85.7	85.7	85.7	85.7
<b>Overall A-weighted</b>		97.8	100.3	101.4	102.0	102.1	101.4	102.1	102.1	102.1	102.1

**Table E-D. Siemens SWT-3.0-113 Max Power 2483 kW**

<b>Associated Project:</b> Grand Bend Wind Farm											
<b>Make:</b> Siemens											
<b>Model:</b> SWT-3.0-113											
<b>Electrical Rating:</b> 2483 kilowatts											
<b>Hub Height (m):</b> 99.5 metres											
<b>Wind Shear Coefficient:</b> 0.29											
<b>Source of Data:</b> Provided by Siemens (Appendix B)											
		Linear Octave Band Sound Power Level (dB(lin))									
		Manufacturer's Emission Levels					Adjusted Emission Levels				
10 metre Height Wind Speed (m/s)		6	7	8	9	10	6	7	8	9	10
Frequency (Hz)	63	115.6	116.7	117.4	117.5	117.3	117.4	117.4	117.3	117.3	117.3
	125	108.3	108.6	108.7	108.2	107.5	108.7	108.7	107.5	107.5	107.5
	250	104.1	103.8	103.3	102.7	102.1	103.3	103.3	102.1	102.1	102.1
	500	96.9	96.7	96.3	96.1	96.0	96.3	96.3	96.0	96.0	96.0
	1000	93.3	93.4	93.4	93.3	93.7	93.4	93.4	93.7	93.7	93.7
	2000	91.5	92.2	92.6	92.8	93.4	92.6	92.6	93.4	93.4	93.4
	4000	88.5	89.2	89.6	91.5	91.8	89.6	89.6	91.8	91.8	91.8
	8000	81.8	83.4	84.4	84.4	84.5	84.4	84.4	84.5	84.5	84.5
<b>Overall A-weighted</b>		101.3	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5