

Appendix G: Noise Supporting Information

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Construction Activity Noise Calculation

Receptor:		Noise Level Calculation Prior to Implementation of Noise Attenuation Requirements									
Receiving residential property line (Proposed Billboard construction)		Reference (dBA) 50 ft	Quantity	Usage factor[1]	Distance to Receptor	Ground Effect[2]	Shielding (dBA)[3]	Calculated (dBA)		Energy	
No.	Equipment Description	Lmax						Lmax	Leq		
1	Crane	85	1	25	175	1	6	68.1	56.7	463165.1514	
2											
3											
								Lmax[4]	68	Leq	57

Notes:

- [1] Percentage of time activity occurs each hour
- [2] Soft ground terrain between project site and receptor.
- [3] Shielding due to terrain or structures
- [4] Calculated Lmax is the Loudest value.

Demolition Activity Noise Calculation

Receptor:		Noise Level Calculation Prior to Implementation of Noise Attenuation Requirements									
Receiving residential property line (proposed Billboard removal)		Reference (dBA) 50 ft	Quantity	Usage factor[1]	Distance to Receptor	Ground Effect[2]	Shielding (dBA)[3]	Calculated (dBA)		Energy	
No.	Equipment Description	Lmax						Lmax	Leq		
1	Crane	85	1	25	35	1	3	85.1	80.6	115516996.5	
2											
3											
4											
								Lmax[4]	85	Leq	81

Notes:

- [1] Percentage of time activity occurs each hour
- [2] Soft ground terrain between project site and receptor.
- [3] Shielding due to terrain or structures
- [4] Calculated Lmax is the Loudest value.

Demolition Activity Noise Calculation

CNEL Calculations					
	Time	Hourly Leq	Leq ¹	0.1*Leq	antiLog
Night	12:00 AM		10.0	1	10
	1:00 AM		10.0	1	10
	2:00 AM		10.0	1	10
	3:00 AM		10.0	1	10
	4:00 AM		10.0	1	10
	5:00 AM		10.0	1	10
Day	6:00 AM		10.0	1	10
	7:00 AM		0.0	0	1
	8:00 AM		0.0	0	1
	9:00 AM		0.0	0	1
	10:00 AM		0.0	0	1
	11:00 AM		0.0	0	1
	12:00 PM		0.0	0	1
	1:00 PM	80.6	80.6	8.062645889	115516996.5
	2:00 PM		0.0	0	1
	3:00 PM		0.0	0	1
	4:00 PM		0.0	0	1
	5:00 PM		0.0	0	1
Evening	6:00 PM		0.0	0	1
	7:00 PM		5.0	0.5	3.16227766
	8:00 PM		5.0	0.5	3.16227766
Night	9:00 PM		5.0	0.5	3.16227766
	10:00 PM		10.0	1	10
	11:00 PM		10.0	1	10
Sum					115517107
Sum/24					4813212.793
Log10(Sum/24)					6.682435062
10*Log10(Sum/24)					66.82435062
24 Hour CNEL					67

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