

APPENDIX K

NOISE STUDY

This appendix was prepared by Amec Foster Wheeler to support the quantitative analysis provided in Section 3.10, *Noise*, within this Environmental Impact Report (EIR).

K1: Noise Modeling (Amec Foster Wheeler 2018)

Location	Distance (ft)	Ref Noise Level (dB)	Noise (dB)	10 foot barrier (dB reduction)	Equipment Muffler (dB reduction)	Result
		RCNM Demo/Ex/Sh (CoHB 2017)_Skechers	2017 City of Hermosa Beach (Skechers)	2004 City of West Hollywood		
Reference	50	88				
BHH	40	88	90	-11	-8	71
Strand	70	88	85	-11	-8	66
14th Court Residences	250	88	74	-11	-8	55
Noble Park	350	88	71	-11	-8	52
11th Court Residences	360	88	71	-11	-8	52
SS Motel and Apartments	380	88	70	-11	-8	51
CBC	560	88	67	-11	-8	48
Palm Dr. Residences	650	88	66	-11	-8	47
SCLC	930	88	63	-11	-8	44
CSC	900	88	63	-11	-8	44
0.3 miles	1584	88	58	-11	-8	39
0.4 miles	2112	88	55	-11	-8	36

Location	Distance (ft)	Ref Noise Level (dB) RCNM F/Sh/BO (CoHB2017_Skechers)	Noise (dB)	10 foot barrier (dB reduction) 2017 City of Hermosa Beach (Skechers)	Equipment Muffler (dB reduction) 2004 City of West Hollywood	Result
Reference	50		86			
BHH	40		86	88	-11	-8 69
Strand	70		86	83	-11	-8 64
14th Court	250		86	72	-11	-8 53
Noble Park	350		86	69	-11	-8 50
11th Court	360		86	69	-11	-8 50
SS Motel at	380		86	68	-11	-8 49
CBC	560		86	65	-11	-8 46
Palm Dr. Re	650		86	64	-11	-8 45
SCLC	930		86	61	-11	-8 42
CSC	900		86	61	-11	-8 42
0.3 miles	1584		86	56	-11	-8 37
0.4 miles	2112		86	53	-11	-8 34

Location	Distance (ft)	Ref Noise Level (dB)	Noise (dB) 10 foot barrier (dB reduction)		Equipment Muffler (dB reduction)		Result
		RCNM BO_SW (CofHB 2017)_Skechers	2017 City of Hermosa Beach (Skechers)	2004 City of West Hollywood	2004 City of West Hollywood		
Reference	50	87					
BHH	40	87	89	-11	-8		70
Strand	70	87	84	-11	-8		65
14th Court	250	87	73	-11	-8		54
Noble Park	350	87	70	-11	-8		51
11th Court	360	87	70	-11	-8		51
SS Motel at	380	87	69	-11	-8		50
CBC	560	87	66	-11	-8		47
Palm Dr. R	650	87	65	-11	-8		46
SCLC	930	87	62	-11	-8		43
CSC	900	87	62	-11	-8		43
0.3 miles	1584	87	57	-11	-8		38
0.4 miles	2112	87	54	-11	-8		35

Location	Distance (ft)	Ref Vibration Level (dB) 2012 FRA/Loaded Truck	Vibration (VdB)
BHH	40	86	80
Strand	70	86	73
14th Court Residences	250	86	56
Noble Park	350	86	52
11th Court Residences	360	86	51
SS Motel and Apartments	380	86	51
CBC	560	86	45
Palm Dr. Residences	650	86	44
SCLC	930	86	39
CSC	900	86	39
0.3 miles	1584	86	32
0.4 miles	2112	86	28
Truck Haul	10	86	98
Truck Haul	15	86	93
Truck Haul	20	86	89

Location	Distance (ft)	Ref Noise Level (dB)	Noise (dB)
Hermosa Ave			
Reference	52		62
For Haul Truck	33		62

Hourly Leq on Hermosa Ave at 33 feet

66

Hourly Leq Hermosa with Haul Trucks at 33 feet

61

Combined Hourly Leq

67

Proposed Assume 63 from Project Outside Dining (8AM to 2AM)
 63 Leq added to baseline Leq for that hour
 Range 59 to 64

Baseline: Assume 62 CNEL at Project site

1	63	6.3	1995262	63
2	45	4.5	31622.78	
3	40	4	10000	
4	40	4	10000	
5	40	4	10000	
6	45	4.5	31622.78	
7	65	6.5	3162278	
8	67	6.7	5011872	
9	67	6.7	5011872	
10	67	6.7	5011872	
11	67	6.7	5011872	
12	67	6.7	5011872	
1	67	6.7	5011872	
2	67	6.7	5011872	
3	67	6.7	5011872	
4	67	6.7	5011872	
5	67	6.7	5011872	
6	67	6.7	5011872	
7	65	6.5	3162278	
8	65	6.5	3162278	
9	65	6.5	3162278	
10	65	6.5	3162278	
11	63	6.3	1995262	
12	63	6.3	1995262	
			77021016	
			3209209	65.06398

1	45	4.5	31622.78	45
2	45	4.5	31622.78	
3	40	4	10000	
4	40	4	10000	
5	40	4	10000	
6	45	4.5	31622.78	
7	65	6.5	3162278	
8	65	6.5	3162278	
9	65	6.5	3162278	
10	65	6.5	3162278	
11	65	6.5	3162278	
12	65	6.5	3162278	
1	65	6.5	3162278	
2	65	6.5	3162278	
3	65	6.5	3162278	
4	65	6.5	3162278	
5	65	6.5	3162278	
6	65	6.5	3162278	
7	60	6	1000000	
8	60	6	1000000	
9	60	6	1000000	
10	60	6	1000000	
11	50	5	100000	
12	50	5	100000	
			42272200	
			1761342	62.45844
				-2.60554