Construction Noise Impact Analysis

11900 Saltair Terrace Residence: Demolition and Grading/Excavation

Ambient Noise Level:	55.3 dBA Leq
Distance:	100 ft

Unmitigated

Equipment Noise Levels

Equipment	Noise Level - 50ft dBA Leq	Usage %	Workday Noise Level - 50ft dBA Leq
Excavator	75.9	0.4	71.9
Loader	72.4	0.4	68.4
-	0	1	0.0
-	0	1	0.0
-	0	1	0.0
		Combined dBA Leq:	73.5

Unmitigated Construction Noise Impact

Combined Equipment Noise Level	73.5 dBA Leq
Existing Shielding	0 dBA
Ground Factor	0
Distance - Equipment to Receptor	100 ft

Unmitigated Construction Noise Level	67.5 dBA Leq
Ambient Noise Level	55.3 dBA
New Noise Level	67.8 dBA Leq
Unmitigated Noise Increase	**12.5 dBA**

Mitigated

Equipment Noise Levels

Equipment	Noise Level - 50ft dBA Leq	Usage %	Workday Noise Level - 50ft dBA Leq
Excavator	75.9	0.4	71.9
Loader	72.4	0.4	68.4
-	0	1	0.0
-	0	1	0.0
-	0	1	0.0
		Combined dBA Leq:	73.5

Mitigated Construction Noise Impact

Combined Equipment Noise Level	73.5 dBA Leq
Total Shielding (sound barrier)	15 dBA
Ground Factor	0
Distance - Equipment to Receptor	100 ft
Mitigated Construction Noise Level	52.5 dBA Leq
Ambient Noise Level	55.3 dBA
New Noise Level	57.1 dBA Leq
Mitigated Noise Increase	**1.8 dBA**

Alternative 3: On-Site Construction Vibration - PPV

Equipment:	"Large Bulldozer"
Equipment PPV (in/sec):	0.089
Reference Distance (ft):	25
"n" value	1.1

Unmitigated

Receptor	Distance (ft)	Vibration Level (in/sec PPV)
11961 San Vicente Boulevard - Commercial	10	0.244
11980 San Vicente Boulevard - Commercial	125	0.015
11999 San Vicente Boulevard - Commercial	150	0.012
11900 Saltair Terrace - Residential	100	0.019

On-Site Construction Vibration - VdB

Equipment:	"Large Bulldozer"
Equipment VdB:	87
Reference Distance (ft):	25
"n" value	n/a

Unmitigated

Receptor	Distance (ft)	Vibration Level (in/sec PPV)
11900 Saltair Terrace - Residential	100	68.9
640 Saltair Ave - Residential	220	58.7
529 Westgate Ave - Residential	220	58.7
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