
Noise measurements – Existing Conditions (Long Term)

Vista Canyon Ranch
Ldn/CNEL Conversion of Monitored Leq's
Existing Conditions

Monitoring Location: Northwestern area of Project Site and South of Santa Clara River

Primary Noise Source:

Secondary Noise Source(s):

Monitoring Period		Monitored Leq	Logarithmic Equivalent	Evening/Night Adjustments		
				10 dB	5 dB	
Midnight	0 / 24	53.4	218776	2187762	691831	Leq Morning Peak Hour 7:00-10:00 a.m.
am	1:00 100	53.9	245471	2454709	776247	56 dBA
	2:00 200	47.6	57544	575440	181970	
	3:00 300	50.9	123027	1230269	389045	Leq Evening Peak Hour 4:00-8:00 p.m.
	4:00 400	55.9	389045	3890451	1230269	58 dBA
	5:00 500	60.4	1096478	10964782	3467369	
	6:00 600	61.2	1318257	13182567	4168694	Leq Nighttime 10:00 pm-7:00 a.m. (not adjusted)
	7:00 700	56.9	489779	4897788	1548817	56 dBA
	8:00 800	56.2	416869	4168694	1318257	
	9:00 900	54.9	309030	3090295	977237	Leq Daytime 7:00 am-10:00 p.m.
	10:00: 1000	57.6	575440	5754399	1819701	57 dBA
	11:00: 1100	56.8	478630	4786301	1513561	
	12:00: 1200	57.2	524807	5248075	1659587	Leq 24-Hour
pm	1:00 1300	57.2	524807	5248075	1659587	57 dBA
	2:00 1400	54.5	281838	2818383	891251	
	3:00 1500	57.0	501187	5011872	1584893	Ldn: 10 dB adjustment between 10:00 p.m. & 7:00 a.m.
	4:00 1600	57.3	537032	5370318	1698244	63 dBA
	5:00 1700	56.3	426580	4265795	1348963	
	6:00 1800	57.5	562341	5623413	1778279	CNEL: 5 dB adjustment between 7:00p.m. & 10:00 p.m., & 10 dB
	7:00 1900	59.4	870964	8709636	2754229	63 dBA adjustment between 10:00 p.m. & 7:00 a.m.
	8:00 2000	55.8	380189	3801894	1202264	
	9:00 2100	56.8	478630	4786301	1513561	
	10:00: 2200	54.6	288403	2884032	912011	Difference between CNEL and Ldn
pm	11:00: 2300	53.5	223872	2238721	707946	CNEL - Ldn 0.332775178

Vista Canyon Ranch
Ldn/CNEL Conversion of Monitored Leq's
Existing Conditions

Monitoring Location: North-central area of Project Site and South of Santa Clara River

Primary Noise Source:

Secondary Noise Source(s):

Monitoring Period			Monitored Logarithmic Leq		Evening/Night Adjustments		
					10 dB	5 dB	
Midnight	0 / 24		51.6	144544	1445440	457088	Leq Morning Peak Hour 7:00-10:00 a.m.
am	1:00	100	52.5	177828	1778279	562341	53 dBA
	2:00	200	43.9	24547	245471	77625	
	3:00	300	48.6	72444	724436	229087	Leq Evening Peak Hour 4:00-8:00 p.m.
	4:00	400	56.6	457088	4570882	1445440	56 dBA
	5:00	500	56.7	467735	4677351	1479108	
	6:00	600	58.2	660693	6606934	2089296	Leq Nighttime 10:00 pm-7:00 a.m. (not adjusted)
	7:00	700	52.6	181970	1819701	575440	54 dBA
	8:00	800	53.5	223872	2238721	707946	
pm	9:00	900	53.0	199526	1995262	630957	Leq Daytime 7:00 am-10:00 p.m.
	10:00:	1000	55.9	389045	3890451	1230269	55 dBA
	11:00:	1100	56.1	407380	4073803	1288250	
	12:00:	1200	55.6	363078	3630781	1148154	Leq 24-Hour
	1:00	1300	50.9	123027	1230269	389045	55 dBA
	2:00	1400	51.9	154882	1548817	489779	
	3:00	1500	55.7	371535	3715352	1174898	Ldn: 10 dB adjustment between 10:00 p.m. & 7:00 a.m.
	4:00	1600	56.7	467735	4677351	1479108	61 dBA
	5:00	1700	54.6	288403	2884032	912011	
	6:00	1800	56.0	398107	3981072	1258925	CNEL: 5 dB adjustment between 7:00p.m. & 10:00 p.m., & 10 dB
pm	7:00	1900	56.4	436516	4365158	1380384	61 dBA adjustment between 10:00 p.m. & 7:00 a.m.
	8:00	2000	54.9	309030	3090295	977237	
	9:00	2100	55.9	389045	3890451	1230269	
	10:00:	2200	54.3	269153	2691535	851138	Difference between CNEL and Ldn
	11:00:	2300	53.9	245471	2454709	776247	CNEL - Ldn 0.342493875

Vista Canyon Ranch
Ldn/CNEL Conversion of Monitored Leq's
Existing Conditions

Monitoring Location: Northeastern area of Project Site and South of Santa Clara River

Primary Noise Source:

Secondary Noise Source(s):

Monitoring Period		Monitored Leq	Logarithmic Equivalent	Evening/Night Adjustments		
				10 dB	5 dB	
Midnight	0 / 24	56.2	416869	4168694	1318257	Leq Morning Peak Hour 7:00-10:00 a.m.
am	1:00 100	54.4	275423	2754229	870964	60 dBA
	2:00 200	51.2	131826	1318257	416869	
	3:00 300	53.6	229087	2290868	724436	Leq Evening Peak Hour 4:00-8:00 p.m.
	4:00 400	59.1	812831	8128305	2570396	60 dBA
	5:00 500	61.1	1288250	12882496	4073803	
	6:00 600	62.9	1949845	19498446	6165950	Leq Nighttime 10:00 pm-7:00 a.m. (not adjusted)
	7:00 700	60.5	1122018	11220185	3548134	59 dBA
	8:00 800	59.8	954993	9549926	3019952	
	9:00 900	58.4	691831	6918310	2187762	Leq Daytime 7:00 am-10:00 p.m.
	10:00: 1000	60.1	1023293	10232930	3235937	61 dBA
	11:00: 1100	59.2	831764	8317638	2630268	
	12:00: 1200	58.7	741310	7413102	2344229	Leq 24-Hour
pm	1:00 1300	53.0	199526	1995262	630957	60 dBA
	2:00 1400	66.6	4570882	45708819	14454398	
	3:00 1500	58.7	741310	7413102	2344229	Ldn: 10 dB adjustment between 10:00 p.m. & 7:00 a.m.
	4:00 1600	59.9	977237	9772372	3090295	65 dBA
	5:00 1700	58.7	741310	7413102	2344229	
	6:00 1800	60.8	1202264	12022644	3801894	CNEL: 5 dB adjustment between 7:00p.m. & 10:00 p.m., & 10 dB
	7:00 1900	61.9	1548817	15488166	4897788	66 dBA adjustment between 10:00 p.m. & 7:00 a.m.
	8:00 2000	59.7	933254	9332543	2951209	
	9:00 2100	60.1	1023293	10232930	3235937	
	10:00: 2200	58.9	776247	7762471	2454709	Difference between CNEL and Ldn
pm	11:00: 2300	57.7	588844	5888437	1862087	CNEL - Ldn 0.383972257

Vista Canyon Ranch
Ldn/CNEL Conversion of Monitored Leq's
Existing Conditions

Monitoring Location: Phase IV of Project Site and immediately South of SR-14

Primary Noise Source:

Secondary Noise Source(s):

Monitoring Period		Monitored Leq	Logarithmic Equivalent	Evening/Night Adjustments		
				10 dB	5 dB	
Midnight	0 / 24	57.2	524807	5248075	1659587	Leq Morning Peak Hour 7:00-10:00 a.m.
am	1:00 100	56.5	446684	4466836	1412538	59 dBA
	2:00 200	56.2	416869	4168694	1318257	
	3:00 300	57.8	602560	6025596	1905461	Leq Evening Peak Hour 4:00-8:00 p.m.
	4:00 400	61.9	1548817	15488166	4897788	63 dBA
	5:00 500	64.4	2754229	27542287	8709636	
	6:00 600	62.7	1862087	18620871	5888437	Leq Nighttime 10:00 pm-7:00 a.m. (not adjusted)
	7:00 700	56.4	436516	4365158	1380384	60 dBA
	8:00 800	59.2	831764	8317638	2630268	
	9:00 900	59.4	870964	8709636	2754229	Leq Daytime 7:00 am-10:00 p.m.
	10:00: 1000	61.6	1445440	14454398	4570882	62 dBA
	11:00: 1100	62.3	1698244	16982437	5370318	
	12:00: 1200	62.8	1905461	19054607	6025596	Leq 24-Hour
pm	1:00 1300	62.9	1949845	19498446	6165950	61 dBA
	2:00 1400	59.9	977237	9772372	3090295	
	3:00 1500	62.4	1737801	17378008	5495409	Ldn: 10 dB adjustment between 10:00 p.m. & 7:00 a.m.
	4:00 1600	62.1	1621810	16218101	5128614	67 dBA
	5:00 1700	63.2	2089296	20892961	6606934	
	6:00 1800	63.2	2089296	20892961	6606934	CNEL: 5 dB adjustment between 7:00p.m. & 10:00 p.m., & 10 dB
	7:00 1900	62.8	1905461	19054607	6025596	67 dBA adjustment between 10:00 p.m. & 7:00 a.m.
	8:00 2000	61.9	1548817	15488166	4897788	
	9:00 2100	60.7	1174898	11748976	3715352	
	10:00: 2200	59.3	851138	8511380	2691535	Difference between CNEL and Ldn
pm	11:00: 2300	58.5	707946	7079458	2238721	CNEL - Ldn 0.349524167

Vista Canyon Ranch
Ldn/CNEL Conversion of Monitored Leq's
Existing Conditions

Monitoring Location: South-central area of Project Site and North of Union Pacific Railroad

Primary Noise Source:

Secondary Noise Source(s):

Monitoring Period		Monitored Leq		Logarithmic Equivalent	Evening/Night Adjustments		
					10 dB	5 dB	
Midnight	0 / 24	48.7	74131	741310	234423		Leq Morning Peak Hour 7:00-10:00 a.m.
am	1:00 100	61.3	1348963	13489629	4265795	57	dBA
	2:00 200	48.0	63096	630957	199526		
	3:00 300	49.7	93325	933254	295121		Leq Evening Peak Hour 4:00-8:00 p.m.
	4:00 400	54.8	301995	3019952	954993	57	dBA
	5:00 500	59.6	912011	9120108	2884032		
	6:00 600	56.7	467735	4677351	1479108		Leq Nighttime 10:00 pm-7:00 a.m. (not adjusted)
	7:00 700	54.1	257040	2570396	812831	56	dBA
	8:00 800	46.3	42658	426580	134896		
	9:00 900	61.1	1288250	12882496	4073803		Leq Daytime 7:00 am-10:00 p.m.
	10:00: 1000	52.6	181970	1819701	575440	56	dBA
	11:00: 1100	50.5	112202	1122018	354813		
	12:00: 1200	53.8	239883	2398833	758578		Leq 24-Hour
pm	1:00 1300	60.1	1023293	10232930	3235937	56	dBA
	2:00 1400	49.1	81283	812831	257040		
	3:00 1500	46.4	43652	436516	138038		Ldn: 10 dB adjustment between 10:00 p.m. & 7:00 a.m.
	4:00 1600	52.1	162181	1621810	512861	62	dBA
	5:00 1700	60.3	1071519	10715193	3388442		
	6:00 1800	55.9	389045	3890451	1230269		CNEL: 5 dB adjustment between 7:00p.m. & 10:00 p.m., & 10 dB
	7:00 1900	54.5	281838	2818383	891251	62	dBA adjustment between 10:00 p.m. & 7:00 a.m.
	8:00 2000	54.4	275423	2754229	870964		
	9:00 2100	53.1	204174	2041738	645654		
	10:00: 2200	51.4	138038	1380384	436516		Difference between CNEL and Ldn
pm	11:00: 2300	47.7	58884	588844	186209	CNEL - Ldn	0.174170262

Vista Canyon Ranch
Ldn/CNEL Conversion of Monitored Leq's
Existing Conditions

Monitoring Location: Southeastern area of Project Site and North of Union Pacific Railroad

Primary Noise Source:

Secondary Noise Source(s):

Monitoring Period		Monitored Leq		Logarithmic		Evening/Night Adjustments		
				Equivalent		10 dB	5 dB	
Midnight	0 / 24		50.3	107152		1071519	338844	Leq Morning Peak Hour 7:00-10:00 a.m.
am	1:00	100	68.1	6456542		64565423	20417379	64 dBA
	2:00	200	47.3	53703		537032	169824	
	3:00	300	48.8	75858		758578	239883	Leq Evening Peak Hour 4:00-8:00 p.m.
	4:00	400	58.6	724436		7244360	2290868	63 dBA
	5:00	500	65.2	3311311		33113112	10471285	
	6:00	600	60.0	1000000		10000000	3162278	Leq Nighttime 10:00 pm-7:00 a.m. (not adjusted)
	7:00	700	62.3	1698244		16982437	5370318	61 dBA
	8:00	800	48.8	75858		758578	239883	
	9:00	900	67.1	5128614		51286138	16218101	Leq Daytime 7:00 am-10:00 p.m.
	10:00:	1000	57.5	562341		5623413	1778279	62 dBA
	11:00:	1100	50.1	102329		1023293	323594	
	12:00:	1200	57.3	537032		5370318	1698244	Leq 24-Hour
pm	1:00	1300	67.8	6025596		60255959	19054607	62 dBA
	2:00	1400	56.2	416869		4168694	1318257	
	3:00	1500	45.1	32359		323594	102329	Ldn: 10 dB adjustment between 10:00 p.m. & 7:00 a.m.
	4:00	1600	59.7	933254		9332543	2951209	68 dBA
	5:00	1700	66.9	4897788		48977882	15488166	
	6:00	1800	61.9	1548817		15488166	4897788	CNEL: 5 dB adjustment between 7:00p.m. & 10:00 p.m., & 10 dB
	7:00	1900	59.6	912011		9120108	2884032	68 dBA adjustment between 10:00 p.m. & 7:00 a.m.
	8:00	2000	60.3	1071519		10715193	3388442	
	9:00	2100	60.5	1122018		11220185	3548134	
	10:00:	2200	53.0	199526		1995262	630957	Difference between CNEL and Ldn
pm	11:00:	2300	51.5	141254		1412538	446684	CNEL - Ldn 0.195601241

Vista Canyon Ranch
Ldn/CNEL Conversion of Monitored Leq's
Existing Conditions

Monitoring Location: Newhall Metrolink Station (North)

Primary Noise Source:

Secondary Noise Source(s):

Monitoring Period		Monitored Leq	Logarithmic Equivalent	Evening/Night Adjustments		
				10 dB	5 dB	
Midnight	0 / 24	50.3	107152	1071519	338844	Leq Morning Peak Hour 7:00-10:00 a.m.
am	1:00 100	68.2	6606934	66069345	20892961	70 dBA
	2:00 200	47.1	51286	512861	162181	
	3:00 300	48.2	66069	660693	208930	Leq Evening Peak Hour 4:00-8:00 p.m.
	4:00 400	50.8	120226	1202264	380189	61 dBA
	5:00 500	57.1	512861	5128614	1621810	
	6:00 600	58.9	776247	7762471	2454709	Leq Nighttime 10:00 pm-7:00 a.m. (not adjusted)
	7:00 700	58.9	776247	7762471	2454709	60 dBA
	8:00 800	59.9	977237	9772372	3090295	
	9:00 900	74.3	26915348	269153480	85113804	Leq Daytime 7:00 am-10:00 p.m.
	10:00: 1000	58.2	660693	6606934	2089296	66 dBA
	11:00: 1100	61.5	1412538	14125375	4466836	
	12:00: 1200	72.8	19054607	190546072	60255959	Leq 24-Hour
pm	1:00 1300	59.2	831764	8317638	2630268	65 dBA
	2:00 1400	59.1	812831	8128305	2570396	
	3:00 1500	57.0	501187	5011872	1584893	Ldn: 10 dB adjustment between 10:00 p.m. & 7:00 a.m.
	4:00 1600	60.2	1047129	10471285	3311311	68 dBA
	5:00 1700	62.4	1737801	17378008	5495409	
	6:00 1800	60.0	1000000	10000000	3162278	CNEL: 5 dB adjustment between 7:00p.m. & 10:00 p.m., & 10 dB adjustment between 10:00 p.m. & 7:00 a.m.
	7:00 1900	59.8	954993	9549926	3019952	69 dBA
	8:00 2000	59.8	954993	9549926	3019952	
	9:00 2100	69.6	9120108	91201084	28840315	
	10:00: 2200	54.2	263027	2630268	831764	Difference between CNEL and Ldn
pm	11:00: 2300	59.8	954993	9549926	3019952	CNEL - Ldn 0.598738871