

**APPENDIX RTC-C**

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**Noise**

## TRAFFIC NOISE LEVELS



Project Name: Scott Ranch Project

### Background Information

Model Description: FHWA Highway Noise Prediction Model with California Vehicle Noise (CALVENO) Emission Levels.  
 Analysis Scenario(s): Existing, Pipeline Traffic Volumes Without Project, Pipeline Traffic Volumes With Project, & Cumulative  
 Source of Traffic Volumes: Fehr & Peers Traffic Study  
 Community Noise Descriptor: X

Assumed 24-Hour Traffic Distribution:	(Ldn)		(CNEL)
	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

### Traffic Noise Levels

#### Analysis Condition

Roadway Name	Median	Peak Hour	ADT	Design Speed	Dist. from Center to Receptor <sup>1</sup>	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix Medium Trucks	Vehicle Mix Heavy Trucks	Peak Hour L <sub>eq</sub> dB(A)	24-Hour dB(A) CNEL
Roadway Segment	Lanes	Width	Volume	Volume	(mph)						

#### Existing Traffic Noise

D Street												
North of Petaluma Blvd	2	0	1,184	10,656	35	50	0	0	1.8%	0.7%	66.3	65.0
Petaluma Blvd to 6th St	2	0	1,172	10,548	35	50	0	0	1.8%	0.7%	66.2	65.0
6th St to El Rose Dr	2	0	960	8,640	35	50	0	0	1.8%	0.7%	65.4	64.1
El Rose Dr to Windsor Dr	2	0	975	8,775	35	50	0	0	1.8%	0.7%	65.4	64.2
South of Windsor Dr	2	0	986	8,874	35	50	0	0	1.8%	0.7%	65.5	64.3

#### Pipeline Traffic Volumes Without Project

D Street												
North of Petaluma Blvd	2	0	1,543	13,887	35	50	0	0	1.8%	0.7%	67.4	66.2
Petaluma Blvd to 6th St	2	0	1,214	10,926	35	50	0	0	1.8%	0.7%	66.4	65.2
6th St to El Rose Dr	2	0	984	8,856	35	50	0	0	1.8%	0.7%	65.5	64.2
El Rose Dr to Windsor Dr	2	0	983	8,847	35	50	0	0	1.8%	0.7%	65.5	64.2
South of Windsor Dr	2	0	992	8,928	35	50	0	0	1.8%	0.7%	65.5	64.3

#### Pipeline Traffic Volumes With Project

D Street												
North of Petaluma Blvd	2	0	1,581	14,229	35	50	0	0	1.8%	0.7%	67.5	66.3
Petaluma Blvd to 6th St	2	0	1,263	11,367	35	50	0	0	1.8%	0.7%	66.5	65.3
6th St to El Rose Dr	2	0	1,041	9,369	35	50	0	0	1.8%	0.7%	65.7	64.5
El Rose Dr to Windsor Dr	2	0	1,042	9,378	35	50	0	0	1.8%	0.7%	65.7	64.5
South of Windsor Dr	2	0	1,018	9,162	35	50	0	0	1.8%	0.7%	65.6	64.4

#### Cumulative Traffic Volumes Without Project

D Street												
North of Petaluma Blvd	2	0	1,500	13,500	35	50	0	0	1.8%	0.7%	67.3	66.1
Petaluma Blvd to 6th St	2	0	1,180	10,620	35	50	0	0	1.8%	0.7%	66.3	65.0
6th St to El Rose Dr	2	0	1,020	9,180	35	50	0	0	1.8%	0.7%	65.6	64.4
El Rose Dr to Windsor Dr	2	0	1,070	9,630	35	50	0	0	1.8%	0.7%	65.8	64.6
South of Windsor Dr	2	0	1,080	9,720	35	50	0	0	1.8%	0.7%	65.9	64.6

#### Cumulative Traffic Volumes With Project

D Street												
North of Petaluma Blvd	2	0	1,530	13,770	35	50	0	0	1.8%	0.7%	67.4	66.2
Petaluma Blvd to 6th St	2	0	1,230	11,070	35	50	0	0	1.8%	0.7%	66.4	65.2
6th St to El Rose Dr	2	0	1,080	9,720	35	50	0	0	1.8%	0.7%	65.9	64.6
El Rose Dr to Windsor Dr	2	0	1,120	10,080	35	50	0	0	1.8%	0.7%	66.0	64.8
South of Windsor Dr	2	0	1,100	9,900	35	50	0	0	1.8%	0.7%	65.9	64.7

#### Future Noise Levels At Project Site

D Street												
South of Windsor Dr	2	0	1,100	9,900	35	75	0	0	1.8%	0.7%	64.2	62.9

<sup>1</sup> Distance in feet from the roadway centerline to nearest receptor location.