APPENDIX J: NOISE ASSESSMENT

NOISE MONITORING DATA

Measurement Report

Report Summary

Meter's File Name	S_T_Data.044.s	Computer's File Name	LxT_0005425-20250823 195414-S_T_Data.044.ldbin
Meter	LxT1 0005425	Firmware	2.404
User	J.R.	Location	ST-1
Job Description	PLSD-02.0		
Note			

Start Time	2025-08-23 19:54:14	Duration	0:15:00.0		
End Time	2025-08-23 20:09:14	Run Time	0:15:00.0	Pause Time	0:00:00.0
Pre-Calibration	2025-08-23 19:52:27	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA_{eq}	46.2 dB		
LAE	75.7 dB	SEA	--- dB
EA	4.2 µPa²h		
EA8	133.4 µPa²h		
EA40	667.0 µPa²h		
LZ_{peak}	97.1 dB	2025-08-23 20:07:55	
LAS_{max}	61.6 dB	2025-08-23 20:05:59	
LAS_{min}	39.9 dB	2025-08-23 20:07:37	
LA_{eq}	46.2 dB		
LC_{eq}	59.4 dB	LC_{eq} - LA_{eq}	13.2 dB
LAI_{eq}	47.6 dB	LAI_{eq} - LA_{eq}	1.4 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LZpk > 135.0 dB	0	0:00:00.0
LZpk > 137.0 dB	0	0:00:00.0
LZpk > 140.0 dB	0	0:00:00.0

Community Noise

L_{DN}	L_{Day}	L_{Night}
--- dB	--- dB	0.0 dB

L_{DEN}	L_{Day}	L_{Eve}	L_{Night}
--- dB	--- dB	--- dB	--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
			59.4 dB		--- dB	
		2025-08-23 20:05:59	--- dB	None	--- dB	None
		2025-08-23 20:07:37	--- dB	None	--- dB	None
$L_{Peak(max)}$	--- dB	None	--- dB	None	97.1 dB	2025-08-23 20:07:55

Overloads

Count	Duration
0	0:00:00.0

Statistics

LAS 90.0	41.3 dB
LAS 99.0	40.4 dB

Measurement Report

Report Summary

Meter's File Name	S_T_Data.045.s	Computer's File Name	LxT_0005425-20250823 201529-S_T_Data.045.ldbin
Meter	LxT1 0005425	Firmware	2.404
User	J.R.	Location	ST-2
Job Description	PLSD-02.0		
Note			

Start Time	2025-08-23 20:15:29	Duration	0:15:00.0		
End Time	2025-08-23 20:30:29	Run Time	0:15:00.0	Pause Time	0:00:00.0
Pre-Calibration	2025-08-23 19:52:26	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA_{eq}	48.0 dB		
LAE	77.5 dB	SEA	--- dB
EA	6.3 µPa²h		
EA8	201.9 µPa²h		
EA40	1.0 mPa²h		
LZ_{peak}	87.3 dB	2025-08-23 20:16:21	
LAS_{max}	61.6 dB	2025-08-23 20:26:15	
LAS_{min}	42.0 dB	2025-08-23 20:18:18	
LA_{eq}	48.0 dB		
LC_{eq}	58.0 dB	LC_{eq} - LA_{eq}	10.0 dB
LAI_{eq}	52.2 dB	LAI_{eq} - LA_{eq}	4.2 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LZpk > 135.0 dB	0	0:00:00.0
LZpk > 137.0 dB	0	0:00:00.0
LZpk > 140.0 dB	0	0:00:00.0

Community Noise

L_{DN}	L_{Day}	L_{Night}
--- dB	--- dB	0.0 dB

L_{DEN}	L_{Day}	L_{Eve}	L_{Night}
--- dB	--- dB	--- dB	--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
			58.0 dB		--- dB	
		2025-08-23 20:26:15	--- dB	None	--- dB	None
		2025-08-23 20:18:18	--- dB	None	--- dB	None
$L_{Peak(max)}$	--- dB	None	--- dB	None	87.3 dB	2025-08-23 20:16:21

Overloads

Count	Duration
0	0:00:00.0

Statistics

LAS 90.0	43.9 dB
LAS 99.0	42.6 dB

Measurement Report

Report Summary

Meter's File Name	S_T_Data.046.s	Computer's File Name	LxT_0005425-20250823 204150-S_T_Data.046.ldbin
Meter	LxT1 0005425	Firmware	2.404
User	J.R.	Location	ST-3
Job Description	PLSD-02.0		
Note			

Start Time	2025-08-23 20:41:50	Duration	0:15:00.0		
End Time	2025-08-23 20:56:50	Run Time	0:15:00.0	Pause Time	0:00:00.0
Pre-Calibration	2025-08-23 19:52:26	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA_{eq}	60.4 dB		
LAE	89.9 dB	SEA	--- dB
EA	109.6 µPa²h		
EA8	3.5 mPa²h		
EA40	17.5 mPa²h		
LZ_{peak}	100.0 dB	2025-08-23 20:54:39	
LAS_{max}	74.6 dB	2025-08-23 20:43:18	
LAS_{min}	39.1 dB	2025-08-23 20:50:19	
LA_{eq}	60.4 dB		
LC_{eq}	65.2 dB	LC_{eq} - LA_{eq}	4.8 dB
LAI_{eq}	62.9 dB	LAI_{eq} - LA_{eq}	2.5 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LZpk > 135.0 dB	0	0:00:00.0
LZpk > 137.0 dB	0	0:00:00.0
LZpk > 140.0 dB	0	0:00:00.0

Community Noise

L_{DN}	L_{Day}	L_{Night}
--- dB	--- dB	0.0 dB

L_{DEN}	L_{Day}	L_{Eve}	L_{Night}
--- dB	--- dB	--- dB	--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
			65.2 dB		--- dB	
		2025-08-23 20:43:18	--- dB	None	--- dB	None
		2025-08-23 20:50:19	--- dB	None	--- dB	None
$L_{Peak(max)}$	--- dB	None	--- dB	None	100.0 dB	2025-08-23 20:54:39

Overloads

Count	Duration
0	0:00:00.0

Statistics

LAS 90.0	42.6 dB
LAS 99.0	39.7 dB

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 09/17/2025
Case Description: SPLSD-02.0 - Site Preparation

**** Receptor #1 ****

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Receptor at 50 feet	Residential	65.0	60.0	55.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	50.0	0.0
Backhoe	No	40		77.6	50.0	0.0
Front End Loader	No	40		79.1	50.0	0.0

Results

Equipment	Calculated (dBA) Lmax	Leq	Noise Limits (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq	Noise Limit Exceedance (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq
Dozer	81.7	77.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	77.6	73.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	79.1	75.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	81.7	80.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 09/17/2025
Case Description: PLSD-02.0 - Grading

**** Receptor #1 ****

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Receptor at 50 feet	Residential	65.0	60.0	55.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Grader	No	40	85.0		50.0	0.0
Excavator	No	40		80.7	50.0	0.0
Scraper	No	40		83.6	50.0	0.0

Results

Equipment	Calculated (dBA) Lmax	Leq	Noise Limits (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq	Noise Limit Exceedance (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq
Grader	85.0	81.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	80.7	76.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Scraper	83.6	79.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	85.0	84.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 09/17/2025
Case Description: PLSD-02.0 - Building Construction

**** Receptor #1 ****

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Receptor at 50 feet	Residential	65.0	60.0	55.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	50.0	0.0
Man Lift	No	20		74.7	50.0	0.0
Backhoe	No	40		77.6	50.0	0.0

Results

Equipment	Calculated (dBA) Lmax	Leq	Noise Limits (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq	Noise Limit Exceedance (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq
Crane	80.6	72.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift	74.7	67.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	77.6	73.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	80.6	76.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 09/17/2025
Case Description: PLSD-02.0 - Architectural Coating

**** Receptor #1 ****

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Receptor at 50 feet	Residential	65.0	60.0	55.0

Description	Impact Device	Usage (%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	50.0	0.0

Results

Equipment	Calculated (dBA) Lmax	Leq	Noise Limits (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq	Noise Limit Exceedance (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq
Compressor (air)	77.7	73.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	77.7	73.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 09/17/2025
Case Description: PLSD-02.0 - Architectural Coating

**** Receptor #1 ****

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Receptor at 50 feet	Residential	65.0	60.0	55.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	50.0	0.0
Roller	No	20		80.0	50.0	0.0

Results

Equipment		Calculated (dBA) Lmax	Leq	Noise Limits (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq	Noise Limit Exceedance (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq
Paver		77.2	74.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller		80.0	73.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	80.0	76.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

PLSD-02 - Construction Noise Modeling Attenuation Calculations

Phase 1 **Levels in dBA Leq**

Phase	RCNM Reference Noise Level	Receptor to North	Receptor to West
Distance in feet	*50*	*275*	*875*
Site Prep	81	66	56
Grading	84	69	59
Distance in feet	*50*	*165*	*730*
Building Construction	77	66	53
Architectural Coating	74	63	50
Distance in feet	*50*	*60*	*125*
Paving	77	75	69

Attenuation calculated through Inverse Square Law: Lp(R2) = Lp(R1) - 20Log(R2/R1)

PLSD-02 - Construction Noise Modeling Attenuation Calculations

Phase 2 **Levels in dBA Leq**

Phase	RCNM Reference Noise Level	Receptor to North	Receptor to West	On Site Receptor
Distance in feet	*50*	*165*	*730*	*215*
Building Construction	77	66	53	64
Architectural Coating	74	63	50	61
Distance in feet	*50*	*60*	*125*	*200*
Paving	77	75	69	65

Attenuation calculated through Inverse Square Law: Lp(R2) = Lp(R1) - 20Log(R2/R1)

PLSD-02 - Construction Noise Modeling Attenuation Calculations

Phase 3 **Levels in dBA Leq**

Phase	RCNM Reference Noise Level	Receptor to North	Receptor to West	On-Site Receptor
Distance in feet	*50*	*440*	*1110*	*390*
Site Prep	81	62	54	63
Grading	84	65	57	66
Distance in feet	*50*	*165*	*730*	*50*
Building Construction	77	66	53	77
Architectural Coating	74	63	50	74
Distance in feet	*50*	*60*	*125*	*50*
Paving	77	75	69	77

Attenuation calculated through Inverse Square Law: Lp(R2) = Lp(R1) - 20Log(R2/R1)

PLSD-02 - Construction Noise Modeling Attenuation Calculations

Phase 4 **Levels in dBA Leq**

Phase	RCNM Reference Noise Level	Receptor to North	Receptor to West	On-Site Receptor
Distance in feet	*50*	*165*	*730*	*50*
Building Construction	77	66	53	77
Architectural Coating	74	63	50	74
Distance in feet	*50*	*60*	*125*	*50*
Paving	77	75	69	77

Attenuation calculated through Inverse Square Law: Lp(R2) = Lp(R1) - 20Log(R2/R1)

PLSD-02 - Vibration Damage Attenuation Calculations

		Levels, PPV (in/sec)		
	Vibration Reference Level	**Receptor to North**	**Receptor to West**	**On-Site Receptor**
Distance in feet	**at *25 feet***	*45*	*135*	*30*
Vibratory Roller	0.21	0.087	0.017	0.160
Clam shovel	0.202	0.084	0.016	0.154
Hoe Ram	0.089	0.037	0.007	0.068
Large Bulldozer	0.089	0.037	0.007	0.068
Caisson Drilling	0.089	0.037	0.007	0.068
Loaded Trucks	0.076	0.031	0.006	0.058
Jackhammer	0.035	0.014	0.003	0.027
Small Bulldozer	0.003	0.001	0.000	0.002

Traffic Noise Calculator: FHWA 77-108 — **Plumas Lake Middle School (PLSD-02) Existing 2025 Traffic Noise Traffic Conditions**

	Output						Inputs														Auto Inputs	
	dBA at 50 feet			Distance to CNEL Contour				Segment														
ID	$L_{eq\text{-}24hr}$	L_{dn}	CNEL	70 dBA	65 dBA	60 dBA	Roadway	From - To		ADT	Posted Speed Limit	Grade	% Autos	% Med Trucks	% Heavy Trucks	% Daytime	% Evening	% Night	Number of Lanes	Site Condition	Distance to Reciever	Ground Absorption	Lane Distance
1	64.2	67.4	67.9	36	78	169	River Oaks Blvd	the North	Plumas Lake Blvd	7770	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
2	61.5	64.7	65.2	24	52	112	River Oaks Blvd	Plumas Lake Blvd	Zanes Dr	4170	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
3	61.4	64.6	65.1	24	51	110	River Oaks Blvd	Zanes Dr	Hidden Creek Way	4060	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
4	60.7	63.9	64.5	21	46	99	River Oaks Blvd	Hidden Creek Way	Leighton Grove Dr	3490	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
5	62.3	65.6	66.1	27	59	127	River Oaks Blvd	Leighton Grove Dr	Kensington Dr	5070	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
6	62.2	65.4	66.0	27	58	125	River Oaks Blvd	Kensington Dr	Cimarron Dr	4950	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
7	62.5	65.7	66.3	28	61	131	River Oaks Blvd	Cimarron Dr	Santa Cruz/Lockwood	5440	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
8	60.9	64.1	64.6	22	47	102	River Oaks Blvd	Santa Cruz/Lockwood	Feather River Blvd	3730	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
9	61.3	64.5	65.0	23	50	108	River Oaks Blvd	Feather River Blvd	the South	4100	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
10	58.7	61.9	62.4	16	34	73	Plumas Lake Blvd	the West	River Oaks Blvd	3960	35	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
11	60.7	63.9	64.5	21	46	99	Plumas Lake Blvd	River Oaks Blvd	the East	6140	35	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
12	51.9	55.1	55.6	6	12	26	Zanes Drive	River Oaks Blvd	the West	1620	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
13	52.5	55.7	56.2	6	13	28	Hidden Creek Way	River Oaks Blvd	the West	1860	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
14	49.5	52.8	53.3	4	8	18	Leighton Grove Dr	River Oaks Blvd	the East	950	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
15	52.1	55.3	55.9	6	12	26	Kensington Dr	River Oaks Blvd	the East	1710	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
16	54.2	57.4	58.0	8	17	37	Cimarron Dr	River Oaks Blvd	the East	2780	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
17	47.9	51.1	51.7	3	6	14	Santa Cruz/Lockwood	River Oaks Blvd	the West	650	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
18	47.2	50.4	50.9	3	6	12	Santa Cruz/Lockwood	River Oaks Blvd	the East	550	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
19	62.3	65.5	66.1	27	59	127	Feather River Blvd	River Oaks Blvd	SR-70 Southbound Ramps	5040	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
20	63.8	67.0	67.6	34	74	159	Feather River Blvd	SR-70 Southbound Ramps	SR-70 Northbound Ramps	7110	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
21	61.7	65.0	65.5	25	54	116	Feather River Blvd	SR-70 Northbound Ramps	Chalice Creek Rd	4420	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
22	59.5	62.7	63.2	18	38	82	Feather River Blvd	Chalice Creek Rd	the East	2630	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44

Traffic Noise Calculator: FHWA 77-108 — **Plumas Lake Middle School (PLSD-02) Opening Year 2027 No Project Traffic Noise Traffic Conditions**

	Output						Inputs														Auto Inputs	
	dBA at 50 feet			Distance to CNEL Contour				Segment														
ID	$L_{eq\text{-}24hr}$	L_{dn}	CNEL	70 dBA	65 dBA	60 dBA	Roadway	From - To		ADT	Posted Speed Limit	Grade	% Autos	% Med Trucks	% Heavy Trucks	% Daytime	% Evening	% Night	Number of Lanes	Site Condition	Distance to Reciever	Ground Absorption	Lane Distance
1	64.9	68.1	68.7	41	88	190	River Oaks Blvd	the North	Plumas Lake Blvd	9,220	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
2	62.3	65.6	66.1	27	59	127	River Oaks Blvd	Plumas Lake Blvd	Zanes Dr	5,070	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
3	61.7	65.0	65.5	25	54	117	River Oaks Blvd	Zanes Dr	Hidden Creek Way	4,450	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
4	61.1	64.3	64.9	23	49	106	River Oaks Blvd	Hidden Creek Way	Leighton Grove Dr	3,830	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
5	62.6	65.8	66.4	29	62	133	River Oaks Blvd	Leighton Grove Dr	Kensington Dr	5,410	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
6	63.3	66.5	67.0	32	68	148	River Oaks Blvd	Kensington Dr	Cimarron Dr	6,330	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
7	63.0	66.2	66.7	30	65	141	River Oaks Blvd	Cimarron Dr	Santa Cruz/Lockwood	6,070	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
8	61.3	64.5	65.0	23	50	108	River Oaks Blvd	Santa Cruz/Lockwood	Feather River Blvd	4,100	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
9	61.9	65.1	65.7	26	55	119	River Oaks Blvd	Feather River Blvd	the South	4,750	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
10	59.6	62.8	63.3	18	39	84	Plumas Lake Blvd	the West	River Oaks Blvd	4,880	35	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
11	61.5	64.8	65.3	24	52	113	Plumas Lake Blvd	River Oaks Blvd	the East	7,420	35	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
12	52.2	55.5	56.0	6	13	27	Zanes Drive	River Oaks Blvd	the West	1,760	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
13	52.7	55.9	56.5	6	14	29	Hidden Creek Way	River Oaks Blvd	the West	1,970	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
14	49.8	53.1	53.6	4	9	19	Leighton Grove Dr	River Oaks Blvd	the East	1,020	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
15	54.6	57.9	58.4	8	18	39	Kensington Dr	River Oaks Blvd	the East	3,080	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
16	55.1	58.4	58.9	9	20	42	Cimarron Dr	River Oaks Blvd	the East	3,440	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
17	48.2	51.4	51.9	3	7	14	Santa Cruz/Lockwood	River Oaks Blvd	the West	690	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
18	47.4	50.6	51.2	3	6	13	Santa Cruz/Lockwood	River Oaks Blvd	the East	580	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
19	63.0	66.3	66.8	31	66	142	Feather River Blvd	River Oaks Blvd	SR-70 Southbound Ramps	5,990	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
20	64.5	67.8	68.3	38	83	178	Feather River Blvd	SR-70 Southbound Ramps	SR-70 Northbound Ramps	8,420	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
21	62.5	65.8	66.3	28	61	131	Feather River Blvd	SR-70 Northbound Ramps	Chalice Creek Rd	5,310	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
22	59.9	63.2	63.7	19	41	88	Feather River Blvd	Chalice Creek Rd	the East	2,940	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44

Traffic Noise Calculator: FHWA 77-108 — **Plumas Lake Middle School (PLSD-02) Opening Year 2027 with Project Traffic Noise Traffic Conditions**

	Output						Inputs														Auto Inputs	
	dBA at 50 feet			Distance to CNEL Contour				Segment															
ID	$L_{eq\text{-}24hr}$	L_{dn}	CNEL	70 dBA	65 dBA	60 dBA	Roadway	From - To		ADT	Posted Speed Limit	Grade	% Autos	% Med Trucks	% Heavy Trucks	% Daytime	% Evening	% Night	Number of Lanes	Site Condition	Distance to Reciever	Ground Absorption	Lane Distance
1	65.0	68.2	68.8	41	89	192	River Oaks Blvd	the North	Plumas Lake Blvd	9,402	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
2	62.5	65.7	66.2	28	60	130	River Oaks Blvd	Plumas Lake Blvd	Zanes Dr	5,237	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
3	61.7	65.0	65.5	25	54	117	River Oaks Blvd	Zanes Dr	Hidden Creek Way	4,450	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
4	61.1	64.3	64.9	23	49	106	River Oaks Blvd	Hidden Creek Way	Leighton Grove Dr	3,830	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
5	62.6	65.8	66.4	29	62	133	River Oaks Blvd	Leighton Grove Dr	Kensington Dr	5,410	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
6	63.3	66.5	67.0	32	68	148	River Oaks Blvd	Kensington Dr	Cimarron Dr	6,330	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
7	63.0	66.2	66.7	30	65	141	River Oaks Blvd	Cimarron Dr	Santa Cruz/Lockwood	6,070	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
8	61.3	64.5	65.0	23	50	108	River Oaks Blvd	Santa Cruz/Lockwood	Feather River Blvd	4,100	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
9	61.9	65.1	65.7	26	55	119	River Oaks Blvd	Feather River Blvd	the South	4,750	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
10	59.6	62.8	63.3	18	39	84	Plumas Lake Blvd	the West	River Oaks Blvd	4,880	35	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
11	61.5	64.8	65.3	24	52	113	Plumas Lake Blvd	River Oaks Blvd	the East	7,420	35	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
12	52.2	55.5	56.0	6	13	27	Zanes Drive	River Oaks Blvd	the West	1,760	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
13	52.7	55.9	56.5	6	14	29	Hidden Creek Way	River Oaks Blvd	the West	1,970	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
14	49.8	53.1	53.6	4	9	19	Leighton Grove Dr	River Oaks Blvd	the East	1,020	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
15	54.6	57.9	58.4	8	18	39	Kensington Dr	River Oaks Blvd	the East	3,080	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
16	55.1	58.4	58.9	9	20	42	Cimarron Dr	River Oaks Blvd	the East	3,440	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
17	48.2	51.4	51.9	3	7	14	Santa Cruz/Lockwood	River Oaks Blvd	the West	690	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
18	47.4	50.6	51.2	3	6	13	Santa Cruz/Lockwood	River Oaks Blvd	the East	580	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
19	63.0	66.3	66.8	31	66	142	Feather River Blvd	River Oaks Blvd	SR-70 Southbound Ramps	5,990	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
20	64.5	67.8	68.3	38	83	178	Feather River Blvd	SR-70 Southbound Ramps	SR-70 Northbound Ramps	8,420	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
21	62.5	65.8	66.3	28	61	131	Feather River Blvd	SR-70 Northbound Ramps	Chalice Creek Rd	5,310	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
22	59.9	63.2	63.7	19	41	88	Feather River Blvd	Chalice Creek Rd	the East	2,940	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44

Traffic Noise Calculator: FHWA 77-108 — **Plumas Lake Middle School (PLSD-02) Cumulative Year 2040 no Project Traffic Noise Traffic Conditions**

	Output						Inputs														Auto Inputs	
	dBA at 50 feet			Distance to CNEL Contour				Segment From - To														
ID	$L_{eq\text{-}24hr}$	L_{dn}	CNEL	70 dBA	65 dBA	60 dBA	Roadway			ADT	Posted Speed Limit	Grade	% Autos	% Med Trucks	% Heavy Trucks	% Daytime	% Evening	% Night	Number of Lanes	Site Condition	Distance to Reciever	Ground Absorption	Lane Distance
1	68.0	71.2	71.8	65	141	304	River Oaks Blvd	the North	Plumas Lake Blvd	18,710	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
2	65.6	68.9	69.4	46	98	211	River Oaks Blvd	Plumas Lake Blvd	Zanes Dr	10,860	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
3	63.4	66.6	67.1	32	70	150	River Oaks Blvd	Zanes Dr	Hidden Creek Way	6,480	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
4	62.6	65.9	66.4	29	62	133	River Oaks Blvd	Hidden Creek Way	Leighton Grove Dr	5,450	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
5	63.6	66.8	67.4	33	72	155	River Oaks Blvd	Leighton Grove Dr	Kensington Dr	6,810	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
6	64.7	67.9	68.4	39	85	183	River Oaks Blvd	Kensington Dr	Cimarron Dr	8,740	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
7	63.7	67.0	67.5	34	74	158	River Oaks Blvd	Cimarron Dr	Santa Cruz/Lockwood	7,260	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
8	62.9	66.2	66.7	30	65	140	River Oaks Blvd	Santa Cruz/Lockwood	Feather River Blvd	6,020	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
9	64.4	67.7	68.2	38	82	176	River Oaks Blvd	Feather River Blvd	the South	8,490	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
10	63.0	66.3	66.8	31	66	142	Plumas Lake Blvd	the West	River Oaks Blvd	10,840	35	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
11	64.8	68.0	68.5	40	86	186	Plumas Lake Blvd	River Oaks Blvd	the East	15,680	35	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
12	53.5	56.7	57.2	7	15	33	Zanes Drive	River Oaks Blvd	the West	2,340	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
13	53.9	57.1	57.7	8	16	35	Hidden Creek Way	River Oaks Blvd	the West	2,600	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
14	51.2	54.4	55.0	5	11	23	Leighton Grove Dr	River Oaks Blvd	the East	1,390	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
15	56.9	60.1	60.6	12	26	55	Kensington Dr	River Oaks Blvd	the East	5,140	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
16	54.8	58.1	58.6	9	19	40	Cimarron Dr	River Oaks Blvd	the East	3,210	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
17	50.1	53.4	53.9	4	9	20	Santa Cruz/Lockwood	River Oaks Blvd	the West	1,090	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
18	49.4	52.6	53.1	4	8	17	Santa Cruz/Lockwood	River Oaks Blvd	the East	910	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
19	65.9	69.2	69.7	48	103	222	Feather River Blvd	River Oaks Blvd	SR-70 Southbound Ramps	11,650	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
20	67.3	70.5	71.1	59	127	273	Feather River Blvd	SR-70 Southbound Ramps	SR-70 Northbound Ramps	15,950	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
21	65.3	68.6	69.1	44	94	202	Feather River Blvd	SR-70 Northbound Ramps	Chalice Creek Rd	10,140	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
22	61.3	64.5	65.1	23	51	109	Feather River Blvd	Chalice Creek Rd	the East	4,020	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44

Traffic Noise Calculator: FHWA 77-108 — **Plumas Lake Middle School (PLSD-02) Cumulative Year 2040 With Project Traffic Noise Traffic Conditions**

	Output						Inputs														Auto Inputs	
	dBA at 50 feet			Distance to CNEL Contour				Segment From - To														
ID	$L_{eq\text{-}24hr}$	L_{dn}	CNEL	70 dBA	65 dBA	60 dBA	Roadway			ADT	Posted Speed Limit	Grade	% Autos	% Med Trucks	% Heavy Trucks	% Daytime	% Evening	% Night	Number of Lanes	Site Condition	Distance to Reciever	Ground Absorption	Lane Distance
1	68.0	71.2	71.8	66	141	305	River Oaks Blvd	the North	Plumas Lake Blvd	18,787	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
2	65.6	68.9	69.4	46	98	211	River Oaks Blvd	Plumas Lake Blvd	Zanes Dr	10,860	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
3	63.4	66.6	67.1	32	70	150	River Oaks Blvd	Zanes Dr	Hidden Creek Way	6,480	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
4	62.6	65.9	66.4	29	62	133	River Oaks Blvd	Hidden Creek Way	Leighton Grove Dr	5,450	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
5	63.6	66.8	67.4	33	72	155	River Oaks Blvd	Leighton Grove Dr	Kensington Dr	6,810	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
6	64.7	67.9	68.4	39	85	183	River Oaks Blvd	Kensington Dr	Cimarron Dr	8,740	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
7	63.7	67.0	67.5	34	74	158	River Oaks Blvd	Cimarron Dr	Santa Cruz/Lockwood	7,260	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
8	62.9	66.2	66.7	30	65	140	River Oaks Blvd	Santa Cruz/Lockwood	Feather River Blvd	6,020	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
9	64.4	67.7	68.2	38	82	176	River Oaks Blvd	Feather River Blvd	the South	8,490	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
10	63.0	66.3	66.8	31	66	142	Plumas Lake Blvd	the West	River Oaks Blvd	10,840	35	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
11	64.8	68.0	68.5	40	86	186	Plumas Lake Blvd	River Oaks Blvd	the East	15,680	35	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
12	53.5	56.7	57.2	7	15	33	Zanes Drive	River Oaks Blvd	the West	2,340	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
13	53.9	57.1	57.7	8	16	35	Hidden Creek Way	River Oaks Blvd	the West	2,600	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
14	51.2	54.4	55.0	5	11	23	Leighton Grove Dr	River Oaks Blvd	the East	1,390	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
15	56.9	60.1	60.6	12	26	55	Kensington Dr	River Oaks Blvd	the East	5,140	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
16	54.8	58.1	58.6	9	19	40	Cimarron Dr	River Oaks Blvd	the East	3,210	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
17	50.1	53.4	53.9	4	9	20	Santa Cruz/Lockwood	River Oaks Blvd	the West	1,090	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
18	49.4	52.6	53.1	4	8	17	Santa Cruz/Lockwood	River Oaks Blvd	the East	910	25	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	2	Soft	50	0.5	20
19	65.9	69.2	69.7	48	103	222	Feather River Blvd	River Oaks Blvd	SR-70 Southbound Ramps	11,650	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
20	67.3	70.5	71.1	59	127	273	Feather River Blvd	SR-70 Southbound Ramps	SR-70 Northbound Ramps	15,950	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
21	65.3	68.6	69.1	44	94	202	Feather River Blvd	SR-70 Northbound Ramps	Chalice Creek Rd	10,140	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44
22	61.3	64.5	65.1	23	51	109	Feather River Blvd	Chalice Creek Rd	the East	4,020	45	0.0%	96.0%	2.5%	1.5%	75.0%	12.7%	12.3%	4	Soft	50	0.5	44

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