APPENDIX D

Noise Model Calculations

LT-01-Ldn

Long-Term 24 Hour Continuous Noise Monitoring

Model Input Sheet

Project: 6 - SMUD1745 TA Jackson Excelsior

Date: Existi **Wednesday, October 29, 2025** **Thursday, October 30, 2025**

Site: LT-01

Hour	Leq	Lmax	L50	L90
19:00	63.6	82.1	41.5	55.2
20:00	61.8	79.2	39.3	51.7
21:00	60.3	78.5	41.9	49.2
22:00	57.0	76.4	37.3	45.4
23:00	55.9	76.0	38.0	43.4
0:00	52.7	74.7	35.8	39.8
1:00	52.5	75.5	35.3	40.1
2:00	52.6	74.1	34.9	39.3
3:00	55.3	78.3	35.2	41.5
4:00	58.0	81.3	41.7	47.0
5:00	63.1	79.9	45.9	53.2
6:00	65.6	78.3	51.6	59.7
7:00	68.5	80.2	53.4	65.6
8:00	67.8	78.8	52.5	63.9
9:00	66.3	83.9	45.0	56.8
10:00	66.0	81.4	41.4	55.0
11:00	64.9	80.1	45.9	54.2
12:00	66.4	83.3	43.5	56.0
13:00	66.6	82.6	45.0	57.3
14:00	68.0	83.3	44.7	60.4
15:00	69.1	82.4	45.0	63.7
16:00	70.2	86.5	46.4	66.8
17:00	69.2	81.0	48.7	65.0
18:00	66.3	78.8	44.7	59.5

Averages

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 10 p.m.)	67.0	81.5	45.3	58.7
Nighttime (10 p.m. - 7 a.m.)	59.5	77.2	39.5	45.5

Uppermost-Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 10 p.m.)	70.2	86.5	53.4	66.8
Nighttime (10 p.m. - 7 a.m.)	65.6	81.3	51.6	59.7

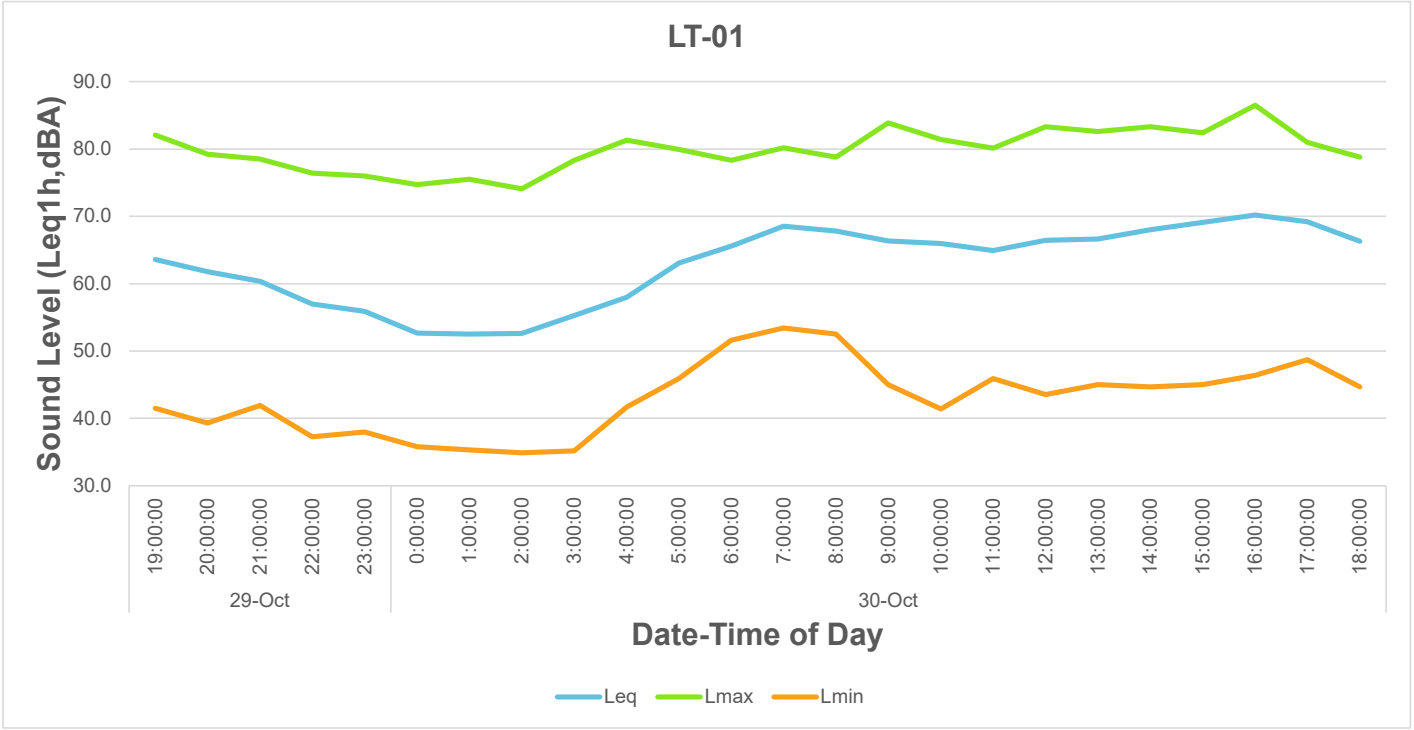
Percentage of Energy

Daytime	90%
Nighttime	10%

Calculated L_{dn}, dBA

68.1

Date	Time	Leq	Lmax	Lmin
29-Oct	19:00:00	63.6	82.1	41.5
	20:00:00	61.8	79.2	39.3
	21:00:00	60.3	78.5	41.9
	22:00:00	57.0	76.4	37.3
	23:00:00	55.9	76	38
30-Oct	0:00:00	52.7	74.7	35.8
	1:00:00	52.5	75.5	35.3
	2:00:00	52.6	74.1	34.9
	3:00:00	55.3	78.3	35.2
	4:00:00	58.0	81.3	41.7
	5:00:00	63.1	79.9	45.9
	6:00:00	65.6	78.3	51.6
	7:00:00	68.5	80.2	53.4
	8:00:00	67.8	78.8	52.5
	9:00:00	66.3	83.9	45
	10:00:00	66.0	81.4	41.4
	11:00:00	64.9	80.1	45.9
	12:00:00	66.4	83.3	43.5
	13:00:00	66.6	82.6	45
	14:00:00	68.0	83.3	44.7
	15:00:00	69.1	82.4	45
	16:00:00	70.2	86.5	46.4
	17:00:00	69.2	81	48.7
	18:00:00	66.3	78.8	44.7



LT-02-Ldn

Long-Term 24 Hour Continuous Noise Monitoring

Model Input Sheet

Project: 6 - SMUD1745 TA Jackson Excelsior

Date: Existi **Wednesday, October 29, 2025** **Thursday, October 30, 2025**

Site: LT-02

Hour	Leq	Lmax	L50	L90
19:00	69.0	84.1	44.8	62.0
20:00	67.4	80.4	45.3	59.6
21:00	67.2	85.0	44.7	59.2
22:00	66.0	80.5	40.4	55.9
23:00	64.2	81.1	37.4	49.3
0:00	60.9	81.8	33.2	43.7
1:00	60.9	81.1	33.3	45.6
2:00	60.7	78.7	32.3	39.8
3:00	62.8	80.5	35.1	47.1
4:00	66.5	87.6	44.5	56.3
5:00	70.5	86.0	50.6	64.8
6:00	72.4	86.2	55.0	70.2
7:00	72.3	85.3	54.9	70.1
8:00	72.4	87.8	52.8	69.5
9:00	71.3	82.8	45.6	67.1
10:00	71.5	91.6	41.7	67.0
11:00	71.0	84.3	41.5	66.0
12:00	71.4	82.6	43.7	68.0
13:00	71.0	89.7	42.9	66.9
14:00	70.5	83.2	42.0	66.6
15:00	70.9	91.4	42.3	67.2
16:00	71.2	91.2	44.2	67.7
17:00	71.3	83.0	45.2	68.3
18:00	70.0	87.6	48.6	65.2

Averages

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 10 p.m.)	70.8	86.0	45.3	66.0
Nighttime (10 p.m. - 7 a.m.)	67.0	82.6	40.2	52.5

Uppermost-Level

	Leq	Lmax	L50	L90
Daytime (7 a.m. - 10 p.m.)	72.4	91.6	54.9	70.1
Nighttime (10 p.m. - 7 a.m.)	72.4	87.6	55.0	70.2

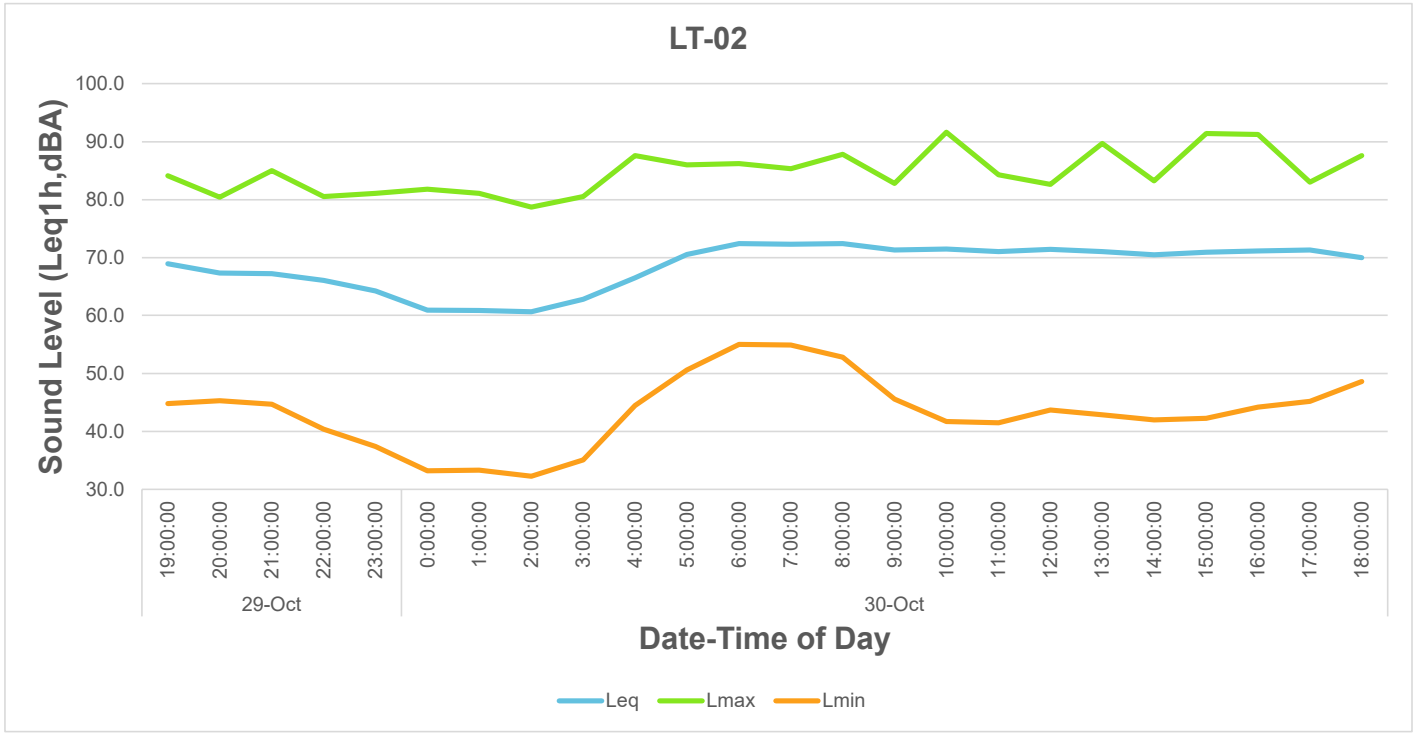
Percentage of Energy

Daytime	80%
Nighttime	20%

Calculated L_{dn}, dBA

74.2

Date	Time	Leq	Lmax	Lmin
29-Oct	19:00:00	69.0	84.1	44.8
	20:00:00	67.4	80.4	45.3
	21:00:00	67.2	85	44.7
	22:00:00	66.0	80.5	40.4
	23:00:00	64.2	81.1	37.4
30-Oct	0:00:00	60.9	81.8	33.2
	1:00:00	60.9	81.1	33.3
	2:00:00	60.7	78.7	32.3
	3:00:00	62.8	80.5	35.1
	4:00:00	66.5	87.6	44.5
	5:00:00	70.5	86	50.6
	6:00:00	72.4	86.2	55
	7:00:00	72.3	85.3	54.9
	8:00:00	72.4	87.8	52.8
	9:00:00	71.3	82.8	45.6
	10:00:00	71.5	91.6	41.7
	11:00:00	71.0	84.3	41.5
	12:00:00	71.4	82.6	43.7
	13:00:00	71.0	89.7	42.9
	14:00:00	70.5	83.2	42
	15:00:00	70.9	91.4	42.3
	16:00:00	71.2	91.2	44.2
	17:00:00	71.3	83	45.2
	18:00:00	70.0	87.6	48.6



SLM & RTA Summary

Translated:		2-Nov-25	13:04:51
File Translated:	C:\LARDAV\SLMUTIL\SMUD Jackson Station\ST_001.slmdl		
Model Number:		824	
Serial Number:	A2624		
Firmware Rev:		4.29	
Software Version:		3.12	
Name:	AECOM		
Descr1:	2020 L St		
Descr2:	Sacramento, CA		
Setup:	SLM&RTA.ssa		
Setup Descr:	SLM & Real-Time Analyzer		
Location:			
Note 1:			
Note 2:			

Overall Any Data

Start Time:		30-Oct-25	16:00:14
Elapsed Time:		15:00.6	

	A Weight	C Weight	Flat
Leq:	72.0 dBA	76.4 dBC	76.8 dBF
SEL:	101.6 dBA	105.9 dBC	106.4 dBF
Peak:	94.2 dBA	105.2 dBC	105.9 dBF
	10/30/2025 16:14	10/30/2025 16:14	10/30/2025 16:14
Lmax (slow):	81.1 dBA	94.2 dBC	94.4 dBF
	10/30/2025 16:14	10/30/2025 16:14	10/30/2025 16:14
Lmin (slow):	41.5 dBA	55.5 dBC	57.9 dBF
	10/30/2025 16:06	10/30/2025 16:06	10/30/2025 16:06
Lmax (fast):	83.7 dBA	97.4 dBC	97.5 dBF
	10/30/2025 16:14	10/30/2025 16:14	10/30/2025 16:14
Lmin (fast):	40.7 dBA	54.3 dBC	56.3 dBF
	10/30/2025 16:06	10/30/2025 16:07	10/30/2025 16:07
Lmax (impulse):	84.3 dBA	98.1 dBC	98.3 dBF
	10/30/2025 16:14	10/30/2025 16:14	10/30/2025 16:14
Lmin (impulse):	41.7 dBA	55.9 dBC	58.4 dBF
	10/30/2025 16:06	10/30/2025 16:06	10/30/2025 16:10

Spectra

Start Time:		30-Oct-25		16:00:14	Run Time:	15:00.6		
Freq Hz	Leq 1/3 Oct	Leq 1/1 Oct		Max 1/3 Oct	Max 1/1 Oct		Min 1/3 Oct	Min 1/1 Oct
12.5		55.6		68.3			26.3	
16		55.5	60.7	68.7	73.7		26.8	33.1
20		56.5		69.7			30.5	
25		61		70.5			48.9	
31.5		60.2	69.3	65.6	76.2		32.7	49.1
40		67.9		74.3			34	
50		64		80.1			35.3	
63		62.7	68.6	81.2	88.1		36.1	40.9
80		64.6		86.1			36.9	
100		67.6		92.6			36.4	
125		66.5	70.9	93.6	96.3		35.4	42.3
160		63.3		82.2			39.7	
200		59.5		75.9			34.8	
250		58.4	63.9	72.4	81.3		29.9	36.9
315		59.5		78.9			29.7	
400		60.3		76			26.9	
500		62.2	67.9	75.3	79.6		27	32.8
630		65.4		72.4			29.6	
800		66.3		72.7			31.3	
1000		65.6	70	69.9	75.7		31.9	35.9
1250		63.4		69.4			29.8	
1600		60		67			26.5	
2000		56.2	62.1	65.3	70.3		23.4	29.3
2500		53.1		63.5			22.6	
3150		50.4		63.9			21.8	
4000		47.7	53	62	66.9		20.4	25.5
5000		45		59.6			19.6	
6300		42.8		58.9			18.9	
8000		40.7	45.5	58.3	63.6		19.3	23.9
10000		36.8		59.3			19.3	
12500		32		52			19.1	
16000		27	33.7	46.5	53.3		20.3	25.4
20000		24.3		40.9			21.9	

Ln Start Level:	15 dB
L 2.00	77.9 dBA
L 8.00	76.2 dBA
L 25.00	74.2 dBA
L 50.00	70.3 dBA
L 90.00	47.5 dBA
L 95.00	44.5 dBA

Detector:	Slow		
Weighting:	A		
SPL Exceedance Level 1:	65.0 dB	Exceeded:	19 times
SPL Exceedance level 2:	80 dB	Exceeded:	3 times
Peak-1 Exceedance Level:	100 dB	Exceeded:	3 times
Peak-2 Exceedance Level:	120 dB	Exceeded:	0 times
Hysteresis:	3		
Overloaded:	0 time(s)		
Paused:	0 times for 00:00:00.0		

Current Any Data

Start Time:	30-Oct-25	16:00:14	
Elapsed Time:	15:00.6		

	A Weight	C Weight	Flat
Leq:	72.0 dBA	76.4 dBC	76.8 dBF
SEL:	101.6 dBA	105.9 dBC	106.4 dBF
Peak:	94.2 dBA	105.2 dBC	105.9 dBF
	10/30/2025 16:14	10/30/2025 16:14	10/30/2025 16:14
Lmax (slow):	81.1 dBA	94.2 dBC	94.4 dBF
	10/30/2025 16:14	10/30/2025 16:14	10/30/2025 16:14
Lmin (slow):	41.5 dBA	55.5 dBC	57.9 dBF
	10/30/2025 16:06	10/30/2025 16:06	10/30/2025 16:06
Lmax (fast):	83.7 dBA	97.4 dBC	97.5 dBF
	10/30/2025 16:14	10/30/2025 16:14	10/30/2025 16:14
Lmin (fast):	40.7 dBA	54.3 dBC	56.3 dBF
	10/30/2025 16:06	10/30/2025 16:07	10/30/2025 16:07
Lmax (impulse):	84.3 dBA	98.1 dBC	98.3 dBF
	10/30/2025 16:14	10/30/2025 16:14	10/30/2025 16:14
Lmin (impulse):	41.7 dBA	55.9 dBC	58.4 dBF
	10/30/2025 16:06	10/30/2025 16:06	10/30/2025 16:10

Calibrated:	1/1/2000 2:45	Offset:	-46.3 dB
Checked:	10/30/2025 15:49	Level:	113.9 dB
Calibrator	597860	Level:	114.0 dB
Cal Records Count:	0		

Interval Records:	Enabled	Number Interval Records:	16
History Records:	Enabled	Number History Records:	3604
Run/Stop Records:		Number Run/Stop Records:	2

SLM & RTA Summary

Translated:		2-Nov-25	13:05:49
File Translated:	C:\LARDAV\SLMUTIL\SMUD Jackson Station\ST_002.slmdl		
Model Number:		824	
Serial Number:	A2624		
Firmware Rev:		4.29	
Software Version:		3.12	
Name:	AECOM		
Descr1:	2020 L St		
Descr2:	Sacramento, CA		
Setup:	SLM&RTA.ssa		
Setup Descr:	SLM & Real-Time Analyzer		
Location:			
Note 1:			
Note 2:			

Overall Any Data

Start Time:		30-Oct-25	16:21:07
Elapsed Time:		16:35.1	

	A Weight		C Weight		Flat	
Leq:	73.3 dBA		77.6 dBC		78.0 dBF	
SEL:	103.3 dBA		107.6 dBC		108.0 dBF	
Peak:	104.2 dBA		112.0 dBC		112.2 dBF	
		10/30/2025 16:26		10/30/2025 16:26		10/30/2025 16:26
Lmax (slow):	90.6 dBA		98.6 dBC		98.7 dBF	
		10/30/2025 16:26		10/30/2025 16:26		10/30/2025 16:26
Lmin (slow):	44.0 dBA		55.8 dBC		58.0 dBF	
		10/30/2025 16:25		10/30/2025 16:25		10/30/2025 16:32
Lmax (fast):	94.2 dBA		101.8 dBC		101.9 dBF	
		10/30/2025 16:26		10/30/2025 16:26		10/30/2025 16:26
Lmin (fast):	43.2 dBA		54.7 dBC		57.0 dBF	
		10/30/2025 16:21		10/30/2025 16:25		10/30/2025 16:32
Lmax (impulse):	94.9 dBA		102.4 dBC		102.5 dBF	
		10/30/2025 16:26		10/30/2025 16:26		10/30/2025 16:26
Lmin (impulse):	44.0 dBA		56.4 dBC		58.6 dBF	
		10/30/2025 16:25		10/30/2025 16:25		10/30/2025 16:32

Spectra

Start Time:		30-Oct-25	16:21:07	Run Time:	16:35.1		
Freq Hz	Leq 1/3 Oct	Leq 1/1 Oct		Max 1/3 Oct	Max 1/1 Oct	Min 1/3 Oct	Min 1/1 Oct
12.5		57.3		57.3		32.2	
16		65.9	68.7	57.3	69.1	33.4	37.5
20		64.8		68.5		32.6	
25		59.5		63.6		36.7	
31.5		59.9	65.7	66.9	76.8	36.3	41.6
40		62.7		76.1		37.3	
50		62		67		39.1	
63		67.6	72.2	87.6	98.3	39.6	44.7
80		69.7		97.9		41	
100		65.6		79.3		41.1	
125		63.8	69	81.2	86.8	38.3	43.7
160		62.7		84.2		35.9	
200		65.5		92.8		30.4	
250		63.7	68.9	92.5	96.5	28.4	33
315		62.7		89.2		23.6	
400		64.4		90.3		26.7	
500		64.4	69.6	86.7	92.3	29.1	33.8
630		65.5		82.3		30.5	
800		67.2		82.7		32.5	
1000		66.8	71.1	79.3	85.3	31.6	36.3
1250		64.5		78.5		30.2	
1600		61.6		74.3		28.7	
2000		57.8	63.7	73.9	79.6	25.3	31
2500		54.9		75.9		22.2	
3150		52.3		71.9		20	
4000		50.3	55.2	72.2	75.7	18.3	23.6
5000		47.5		67.4		17.7	
6300		45.1		65		17.7	
8000		43.5	48.1	65.3	68.8	18.3	23.1
10000		39.6		60.4		18.9	
12500		34.8		55.1		19.2	
16000		28.8	36.1	47	55.8	20.5	25.5
20000		25.1		39.8		22	

Ln Start Level:	15 dB
L 2.00	79 dBA
L 8.00	76.8 dBA
L 25.00	74.6 dBA
L 50.00	71.8 dBA
L 90.00	57.2 dBA
L 95.00	54.1 dBA

Detector:	Slow		
Weighting:	A		
SPL Exceedance Level 1:	65.0 dB	Exceeded:	28 times
SPL Exceedance level 2:	80 dB	Exceeded:	5 times
Peak-1 Exceedance Level:	100 dB	Exceeded:	4 times
Peak-2 Exceedance Level:	120 dB	Exceeded:	0 times
Hysteresis:	3		
Overloaded:	0 time(s)		
Paused:	0 times for 00:00:00.0		

Current Any Data		
Start Time:	30-Oct-25	16:21:07
Elapsed Time:	16:35.1	

	A Weight	C Weight	Flat
Leq:	73.3 dBA	77.6 dBC	78.0 dBF
SEL:	103.3 dBA	107.6 dBC	108.0 dBF
Peak:	104.2 dBA	112.0 dBC	112.2 dBF
		10/30/2025 16:26 10/30/2025 16:26	10/30/2025 16:26
Lmax (slow):	90.6 dBA	98.6 dBC	98.7 dBF
		10/30/2025 16:26 10/30/2025 16:26	10/30/2025 16:26
Lmin (slow):	44.0 dBA	55.8 dBC	58.0 dBF
		10/30/2025 16:25 10/30/2025 16:25	10/30/2025 16:32
Lmax (fast):	94.2 dBA	101.8 dBC	101.9 dBF
		10/30/2025 16:26 10/30/2025 16:26	10/30/2025 16:26
Lmin (fast):	43.2 dBA	54.7 dBC	57.0 dBF
		10/30/2025 16:21 10/30/2025 16:25	10/30/2025 16:32
Lmax (impulse):	94.9 dBA	102.4 dBC	102.5 dBF
		10/30/2025 16:26 10/30/2025 16:26	10/30/2025 16:26
Lmin (impulse):	44.0 dBA	56.4 dBC	58.6 dBF
		10/30/2025 16:25 10/30/2025 16:25	10/30/2025 16:32

Calibrated:	1/1/2000 2:45	Offset:	-46.3 dB
Checked:	10/30/2025 15:49	Level:	113.9 dB
Calibrator	597860	Level:	114.0 dB
Cal Records Count:	0		

Interval Records:	Enabled	Number Interval Records:	17
History Records:	Enabled	Number History Records:	3982
Run/Stop Records:		Number Run/Stop Records:	2

SLM & RTA Summary

Translated:		2-Nov-25	13:06:14
File Translated:	C:\LARDAV\SLMUTIL\SMUD Jackson Station\ST_003.slmdl		
Model Number:		824	
Serial Number:	A2624		
Firmware Rev:		4.29	
Software Version:		3.12	
Name:	AECOM		
Descr1:	2020 L St		
Descr2:	Sacramento, CA		
Setup:	SLM&RTA.ssa		
Setup Descr:	SLM & Real-Time Analyzer		
Location:			
Note 1:			
Note 2:			

Overall Any Data

Start Time:		30-Oct-25	16:45:07
Elapsed Time:		15:00.3	

	A Weight	C Weight	Flat
Leq:	66.1 dBA	72.4 dBC	72.8 dBF
SEL:	95.7 dBA	101.9 dBC	102.4 dBF
Peak:	90.4 dBA	99.9 dBC	100.4 dBF
	10/30/2025 16:45	10/30/2025 16:47	10/30/2025 16:47
Lmax (slow):	76.2 dBA	88.3 dBC	88.4 dBF
	10/30/2025 16:47	10/30/2025 16:47	10/30/2025 16:47
Lmin (slow):	43.5 dBA	54.7 dBC	56.8 dBF
	10/30/2025 16:52	10/30/2025 16:49	10/30/2025 16:53
Lmax (fast):	78.6 dBA	91.4 dBC	91.5 dBF
	10/30/2025 16:47	10/30/2025 16:47	10/30/2025 16:47
Lmin (fast):	42.9 dBA	53.7 dBC	55.3 dBF
	10/30/2025 16:52	10/30/2025 16:53	10/30/2025 16:53
Lmax (impulse):	79.0 dBA	91.9 dBC	92.0 dBF
	10/30/2025 16:47	10/30/2025 16:47	10/30/2025 16:47
Lmin (impulse):	43.3 dBA	55.6 dBC	57.7 dBF
	10/30/2025 16:52	10/30/2025 16:49	10/30/2025 16:49

Spectra

Start Time:		30-Oct-25	16:45:07	Run Time:	15:00.3		
Freq Hz	Leq 1/3 Oct	Leq 1/1 Oct	Max 1/3 Oct	Max 1/1 Oct	Min 1/3 Oct	Min 1/1 Oct	
12.5		53.1	58.2		29.4		
16		59.1	61.8	58.9	64.1	31.4	35.2
20		57		60.6		30.3	
25		58.6		61.9		44	
31.5		55.5	62.2	65.1	69.2	35.6	45.6
40		57.5		65.5		39	
50		57.5		65.3		35	
63		62	67	76.6	85.4	36.4	40.5
80		64.5		84.7		35.6	
100		64.9		75.7		36.4	
125		62.8	67.8	86.7	87.5	36.4	40.8
160		59.9		77.8		35	
200		58.5		75.5		30	
250		57.7	62.4	73.6	79	34	36.5
315		56.4		73.4		29.6	
400		55.7		68		27.9	
500		56.3	61.7	65.1	71.6	27.7	33.4
630		58.4		66.9		29.9	
800		59.6		66.7		31.5	
1000		59.1	63.6	68.7	72.4	33.9	37.3
1250		57.4		67.2		31.9	
1600		54.8		65.6		27.6	
2000		51.6	57.2	60.6	67.6	21.5	29.2
2500		48.8		59.6		20.5	
3150		46.4		62.3		19	
4000		43.8	49	56.7	64	18.8	23.4
5000		40.5		55.4		18.1	
6300		38		51.2		18.1	
8000		35.3	40.3	43	52.3	18.8	23.5
10000		30.3		42.3		19.1	
12500		25.5		33.3		19.1	
16000		22.4	28.6	26.1	34.4	20.4	25.4
20000		23.1		23.8		22	

Ln Start Level:	15 dB
L 2.00	72.1 dBA
L 8.00	70.4 dBA
L 25.00	67.8 dBA
L 50.00	64.4 dBA
L 90.00	48.7 dBA
L 95.00	45.8 dBA

Detector:	Slow		
Weighting:	A		
SPL Exceedance Level 1:	65.0 dB	Exceeded:	31 times
SPL Exceedance level 2:	80 dB	Exceeded:	0 times
Peak-1 Exceedance Level:	100 dB	Exceeded:	1 times
Peak-2 Exceedance Level:	120 dB	Exceeded:	0 times
Hysteresis:	3		
Overloaded:	0 time(s)		
Paused:	0 times for 00:00:00.0		

Current Any Data

Start Time:	30-Oct-25	16:45:07	
Elapsed Time:	15:00.3		

	A Weight	C Weight	Flat
Leq:	66.1 dBA	72.4 dBC	72.8 dBF
SEL:	95.7 dBA	101.9 dBC	102.4 dBF
Peak:	90.4 dBA	99.9 dBC	100.4 dBF
	10/30/2025 16:45	10/30/2025 16:47	10/30/2025 16:47
Lmax (slow):	76.2 dBA	88.3 dBC	88.4 dBF
	10/30/2025 16:47	10/30/2025 16:47	10/30/2025 16:47
Lmin (slow):	43.5 dBA	54.7 dBC	56.8 dBF
	10/30/2025 16:52	10/30/2025 16:49	10/30/2025 16:53
Lmax (fast):	78.6 dBA	91.4 dBC	91.5 dBF
	10/30/2025 16:47	10/30/2025 16:47	10/30/2025 16:47
Lmin (fast):	42.9 dBA	53.7 dBC	55.3 dBF
	10/30/2025 16:52	10/30/2025 16:53	10/30/2025 16:53
Lmax (impulse):	79.0 dBA	91.9 dBC	92.0 dBF
	10/30/2025 16:47	10/30/2025 16:47	10/30/2025 16:47
Lmin (impulse):	43.3 dBA	55.6 dBC	57.7 dBF
	10/30/2025 16:52	10/30/2025 16:49	10/30/2025 16:49

Calibrated:	1/1/2000 2:45	Offset:	-46.3 dB
Checked:	10/30/2025 15:49	Level:	113.9 dB
Calibrator	597860	Level:	114.0 dB
Cal Records Count:	0		

Interval Records:	Enabled	Number Interval Records:	16
History Records:	Enabled	Number History Records:	3603
Run/Stop Records:		Number Run/Stop Records:	2

Project-Generated Construction Source Noise Prediction Model

60726026 - SMUD1745 TA Jackson Excelsior

Location	Distance to Nearest Receiver in feet	Combined Predicted Noise Level (L_{eq} dBA)
Threshold*	634	60
	50	88
LT-01	100	80
LT-02	350	66

Assumptions:	Reference Emission Noise Levels (L_{max}) at 50 feet[1]	Usage Factor[1]
Backhoe	78	0.4
Dozer	82	0.4
Excavator	81	0.4
Front End Loader	79	0.4
Grader	85	0.4
Scraper	84	0.4
Compactor (ground)	83	0.2
Dump Truck	76	0.4
Dump Truck	76	0.4
Dump Truck	76	0.4
Pickup Truck	75	0.4
Pickup Truck	75	0.4
Generator	81	0.5

Ground Type	Soft
Ground Factor	0.50

Predicted Noise Level [2]	L_{eq} dBA at 50 feet[2]
Backhoe	74.0
Dozer	78.0
Excavator	77.0
Front End Loader	75.0
Grader	81.0
Scraper	80.0
Compactor (ground)	76.0
Dump Truck	72.0
Dump Truck	72.0
Dump Truck	72.0
Pickup Truck	71.0
Pickup Truck	71.0
Generator	78.0

Combined Predicted Noise Level (L_{eq} dBA at 50 feet)
87.6

Sources:

[1] Obtained from the FHWA Roadway Construction Noise Model, J

[2] Based on the following from the Federal Transit Noise and Vibrati

$L_{eq}(equip) = E.L.+10*\log(U.F.) - 20*\log(D/50) - 10*G*\log(D/50)$

Where: E.L. = Emission Level;

U.F.= Usage Factor;

G = Constant that accounts for topography and ground effects; and

D = Distance from source to receiver.

*Project specific threshold

Project-Generated Construction Source Noise Prediction Model

60726026 - SMUD1745 TA Jackson Excelsior

Location	Distance to Nearest Receiver in feet	Combined Predicted Noise Level (L_{eq} dBA)
Threshold*	1,443	50
	50	87
LT-01	100	79
LT-02	350	65

Assumptions:	Reference Emission Noise Levels (L_{max}) at 50 feet[1]	Usage Factor[1]
Excavator	81	0.4
Dozer	82	0.4
Front End Loader	79	0.4
Compactor (ground)	83	0.2
Scraper	84	0.4
Backhoe	78	0.4
Dump Truck	76	0.4
Dump Truck	76	0.4
Vacuum Street Sweeper	82	0.1
Pickup Truck	75	0.4
Generator	81	0.5
Pickup Truck	75	0.4

Ground Type	Soft
Ground Factor	0.50

Predicted Noise Level [2]	L_{eq} dBA at 50 feet[2]
Excavator	77.0
Dozer	78.0
Front End Loader	75.0
Compactor (ground)	76.0
Scraper	80.0
Backhoe	74.0
Dump Truck	72.0
Dump Truck	72.0
Vacuum Street Sweeper	72.0
Pickup Truck	71.0
Generator	78.0
Pickup Truck	71.0

Combined Predicted Noise Level (L_{eq} dBA at 50 feet)
86.5

Sources:

[1] Obtained from the FHWA Roadway Construction Noise Model, Ja

[2] Based on the following from the Federal Transit Noise and Vibrati

$L_{eq}(equip) = E.L.+10*\log(U.F.) - 20*\log(D/50) - 10*G*\log(D/50)$

Where: E.L. = Emission Level;

U.F.= Usage Factor;

G = Constant that accounts for topography and ground effects; and

D = Distance from source to receiver.

*Project specific threshold

Project-Generated Construction Source Noise Prediction Model

60726026 - SMUD1745 TA Jackson Excelsior

Location	Distance to Nearest Receiver in feet	Combined Predicted Noise Level (L_{eq} dBA)
Threshold*	473	60
	50	84
LT-01	100	77
LT-02	350	63

Assumptions:	Reference Emission Noise Levels (L_{max}) at 50 feet[1]	Usage Factor[1]
Backhoe	78	0.4
Excavator	81	0.4
Auger Drill Rig	84	0.2
Man Lift	75	0.2
Generator	81	0.5
Roller	80	0.2
Dump Truck	76	0.4
Dump Truck	76	0.4
Vacuum Street Sweeper	82	0.1
Pickup Truck	75	0.4

Ground Type	Soft
Ground Factor	0.50

Predicted Noise Level [2]	L_{eq} dBA at 50 feet[2]
Backhoe	74.0
Excavator	77.0
Auger Drill Rig	77.0
Man Lift	68.0
Generator	78.0
Roller	73.0
Dump Truck	72.0
Dump Truck	72.0
Vacuum Street Sweeper	72.0
Pickup Truck	71.0

Combined Predicted Noise Level (L_{eq} dBA at 50 feet)
84.4

Sources:

[1] Obtained from the FHWA Roadway Construction Noise Model, Ja

[2] Based on the following from the Federal Transit Noise and Vibrati

L_{eq}(equip) = E.L.+10*log (U.F.) - 20*log (D/50) - 10*G*log (D/50)

Where: E.L. = Emission Level;

U.F.= Usage Factor;

G = Constant that accounts for topography and ground effects; and

D = Distance from source to receiver.

*Project specific threshold

Project-Generated Construction Source Noise Prediction Model

60726026 - SMUD1745 TA Jackson Excelsior

Location	Distance to Nearest Receiver in feet	Combined Predicted Noise Level (L_{eq} dBA)
Threshold*	515	60
	50	85
LT-01	100	78
LT-02	350	64

Assumptions:	Reference Emission Noise Levels (L_{max}) at 50 feet[1]	Usage Factor[1]
Excavator	81	0.4
Backhoe	78	0.4
Auger Drill Rig	84	0.2
Concrete Pump Truck	81	0.2
Man Lift	75	0.2
Front End Loader	79	0.4
Flat Bed Truck	74	0.4
Dump Truck	76	0.4
Generator	81	0.5
Welder / Torch	74	0.05
Pickup Truck	75	0.4
Vacuum Street Sweeper	82	0.1
Roller	80	0.2
Pickup Truck	75	0.4

Ground Type	Soft
Ground Factor	0.50

Predicted Noise Level [2]	L_{eq} dBA at 50 feet[2]
Excavator	77.0
Backhoe	74.0
Auger Drill Rig	77.0
Concrete Pump Truck	74.0
Man Lift	68.0
Front End Loader	75.0
Flat Bed Truck	70.0
Dump Truck	72.0
Generator	78.0
Welder / Torch	61.0
Pickup Truck	71.0
Vacuum Street Sweeper	72.0
Roller	73.0
Pickup Truck	71.0

Combined Predicted Noise Level (L_{eq} dBA at 50 feet)
85.3

Sources:

[1] Obtained from the FHWA Roadway Construction Noise Model, Ja

[2] Based on the following from the Federal Transit Noise and Vibrati

$L_{eq}(equip) = E.L.+10*\log(U.F.) - 20*\log(D/50) - 10*G*\log(D/50)$

Where: E.L. = Emission Level;

U.F.= Usage Factor;

G = Constant that accounts for topography and ground effects; and

D = Distance from source to receiver.

*Project specific threshold

Project-Generated Construction Source Noise Prediction Model

60726026 - SMUD1745 TA Jackson Excelsior

Location	Distance to Nearest Receiver in feet	Combined Predicted Noise Level (L_{eq} dBA)
Threshold*	464	60
	50	84
LT-01	100	77
LT-02	350	63

Assumptions:	Reference Emission Noise Levels (L_{max}) at 50 feet[1]	Usage Factor[1]
Crane	81	0.16
Drill Rig Truck	79	0.2
Man Lift	75	0.2
Concrete Pump Truck	81	0.2
Backhoe	78	0.4
Front End Loader	79	0.4
Man Lift	75	0.2
Flat Bed Truck	74	0.4
Dump Truck	76	0.4
Generator	81	0.5
Welder / Torch	74	0.05
Vacuum Street Sweeper	82	0.1
Pickup Truck	75	0.4
Pickup Truck	75	0.4

Ground Type	Soft
Ground Factor	0.50

Predicted Noise Level [2]	L_{eq} dBA at 50 feet[2]
Crane	73.0
Drill Rig Truck	72.0
Man Lift	68.0
Concrete Pump Truck	74.0
Backhoe	74.0
Front End Loader	75.0
Man Lift	68.0
Flat Bed Truck	70.0
Dump Truck	72.0
Generator	78.0
Welder / Torch	61.0
Vacuum Street Sweeper	72.0
Pickup Truck	71.0
Pickup Truck	71.0

Combined Predicted Noise Level (L_{eq} dBA at 50 feet)
84.2

Sources:

[1] Obtained from the FHWA Roadway Construction Noise Model, Ja

[2] Based on the following from the Federal Transit Noise and Vibrati

$L_{eq}(equip) = E.L.+10*\log(U.F.) - 20*\log(D/50) - 10*G*\log(D/50)$

Where: E.L. = Emission Level;

U.F.= Usage Factor;

G = Constant that accounts for topography and ground effects; and

D = Distance from source to receiver.

*Project specific threshold

Project-Generated Construction Source Noise Prediction Model

60726026 - SMUD1745 TA Jackson Excelsior

Location	Distance to Nearest Receiver in feet	Combined Predicted Noise Level (L_{eq} dBA)
Threshold*	399	60
	50	83
LT-01	100	75
LT-02	350	61

Assumptions:	Reference Emission Noise Levels (L_{max}) at 50 feet[1]	Usage Factor[1]
Crane	81	0.16
Man Lift	75	0.2
Man Lift	75	0.2
Drill Rig Truck	79	0.2
Front End Loader	79	0.4
Generator	81	0.5
Welder / Torch	74	0.05
Flat Bed Truck	74	0.4
Pickup Truck	75	0.4
Pickup Truck	75	0.4

Ground Type	Soft
Ground Factor	0.50

Predicted Noise Level [2]	L_{eq} dBA at 50 feet[2]
Crane	73.0
Man Lift	68.0
Man Lift	68.0
Drill Rig Truck	72.0
Front End Loader	75.0
Generator	78.0
Welder / Torch	61.0
Flat Bed Truck	70.0
Pickup Truck	71.0
Pickup Truck	71.0

Combined Predicted Noise Level (L_{eq} dBA at 50 feet)
82.6

Sources:

[1] Obtained from the FHWA Roadway Construction Noise Model, Ja

[2] Based on the following from the Federal Transit Noise and Vibrati

$L_{eq}(equip) = E.L.+10*\log(U.F.) - 20*\log(D/50) - 10*G*\log(D/50)$

Where: E.L. = Emission Level;

U.F.= Usage Factor;

G = Constant that accounts for topography and ground effects; and

D = Distance from source to receiver.

*Project specific threshold

Project-Generated Construction Source Noise Prediction Model

60726026 - SMUD1745 TA Jackson Excelsior

Location	Distance to Nearest Receiver in feet	Combined Predicted Noise Level (L_{eq} dBA)
Threshold*	426	60
	50	83
LT-01	100	76
LT-02	350	62

Assumptions:	Reference Emission Noise Levels (L_{max}) at 50 feet[1]	Usage Factor[1]
Crane	81	0.16
Man Lift	75	0.2
Man Lift	75	0.2
Drill Rig Truck	79	0.2
Front End Loader	79	0.4
Flat Bed Truck	74	0.4
Dump Truck	76	0.4
Pickup Truck	75	0.4
Generator	81	0.5
Welder / Torch	74	0.05
Vacuum Street Sweeper	82	0.1
Pickup Truck	75	0.4

Ground Type	Soft
Ground Factor	0.50

Predicted Noise Level [2]	L_{eq} dBA at 50 feet[2]
Crane	73.0
Man Lift	68.0
Man Lift	68.0
Drill Rig Truck	72.0
Front End Loader	75.0
Flat Bed Truck	70.0
Dump Truck	72.0
Pickup Truck	71.0
Generator	78.0
Welder / Torch	61.0
Vacuum Street Sweeper	72.0
Pickup Truck	71.0

Combined Predicted Noise Level (L_{eq} dBA at 50 feet)
83.3

Sources:

[1] Obtained from the FHWA Roadway Construction Noise Model, Ja

[2] Based on the following from the Federal Transit Noise and Vibrati

$L_{eq}(equip) = E.L.+10*\log(U.F.) - 20*\log(D/50) - 10*G*\log(D/50)$

Where: E.L. = Emission Level;

U.F.= Usage Factor;

G = Constant that accounts for topography and ground effects; and

D = Distance from source to receiver.

*Project specific threshold

Project-Generated Construction Source Noise Prediction Model

60726026 - SMUD1745 TA Jackson Excelsior

Location	Distance to Nearest Receiver in feet	Combined Predicted Noise Level (L_{eq} dBA)
Threshold*	459	60
	50	84
LT-01	100	77
LT-02	350	63

Assumptions:	Reference Emission Noise Levels (L_{max}) at 50 feet[1]	Usage Factor[1]
Paver	77	0.5
Roller	80	0.2
Compactor (ground)	83	0.2
Grader	85	0.4
Vacuum Street Sweeper	82	0.1
Dump Truck	76	0.4
Pickup Truck	75	0.4

Ground Type	Soft
Ground Factor	0.50

Predicted Noise Level [2]	L_{eq} dBA at 50 feet[2]
Paver	74.0
Roller	73.0
Compactor (ground)	76.0
Grader	81.0
Vacuum Street Sweeper	72.0
Dump Truck	72.0
Pickup Truck	71.0

Combined Predicted Noise Level (L_{eq} dBA at 50 feet)
84.1

Sources:

[1] Obtained from the FHWA Roadway Construction Noise Model, Ja

[2] Based on the following from the Federal Transit Noise and Vibrati

$L_{eq}(equip) = E.L.+10*\log(U.F.) - 20*\log(D/50) - 10*G*\log(D/50)$

Where: E.L. = Emission Level;

U.F.= Usage Factor;

G = Constant that accounts for topography and ground effects; and

D = Distance from source to receiver.

*Project specific threshold

Project-Generated Construction Source Noise Prediction Model

60726026 - SMUD1745 TA Jackson Excelsior

Location	Distance to Nearest Receiver in feet	Combined Predicted Noise Level (L_{eq} dBA)	Assumptions:	Reference Emission Noise Levels (L_{max}) at 50 feet[1]	Usage Factor[1]
Threshold*	317	60	**Pickup Truck**	75	0.4
	50	80	**Pickup Truck**	75	0.4
LT-01	100	73	**Generator**	81	0.5
LT-02	350	59	**Pickup Truck**	75	0.4

Ground Type	Soft
Ground Factor	0.50

Predicted Noise Level [2]	L_{eq} dBA at 50 feet[2]
Pickup Truck	71.0
Pickup Truck	71.0
Generator	78.0
Pickup Truck	71.0

Combined Predicted Noise Level (L_{eq} dBA at 50 feet)
80.0

Sources:

[1] Obtained from the FHWA Roadway Construction Noise Model, Ja

[2] Based on the following from the Federal Transit Noise and Vibrati

$L_{eq}(equip) = E.L.+10*\log(U.F.) - 20*\log(D/50) - 10*G*\log(D/50)$

Where: E.L. = Emission Level;

U.F.= Usage Factor;

G = Constant that accounts for topography and ground effects; and

D = Distance from source to receiver.

*Project specific threshold