

Site Number: NM-1			
Recorded By: Justin Reynolds, Bollard Acoustical Consultants, Inc.			
Job Number: 185544			
Date: 11/19/2021			
Time: 2:00 PM			
Location: East of Capitol Expressway and Silver Creek Road Intersection			
Source of Peak Noise: Traffic			
Noise Data			
Leq (dB)	Lmax(dB)	Lmin (dB)	Peak (dB)
74.3	90.4	60.7	101.1

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Larson Davis	831	3888	October 2021	
	Microphone	LD	377B02	333280	October 2021	
	Preamp	LD	PRM831	029367	October 2021	
	Calibrator	LD	CAL200	3301	April 2021	
Weather Data						
Est.	Duration: 10 minutes			Sky: Cloudy		
	Note: dBA Offset =			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	NW 7 mph		67		30.1	

Photo of Measurement Location



Summary	
File Name on Meter	831_Data_013
File Name on PC	831_0003888-20211119 135946-831_Data_013.lbin
Serial Number	0003888
Model	Model 831
Firmware Version	2.314
User	
Location	
Job Description	
Note	

Measurement	
Description	
Start	2021-11-19 13:59:46
Stop	2021-11-19 14:09:46
Duration	00:10:00.0
Run Time	00:10:00.0
Pause	00:00:00.0
Pre-Calibration	2021-11-19 13:16:15
Post-Calibration	None
Calibration Deviation	--

Device Settings			
RMS Weight	A Weighting		
Peak Weight	A Weighting		
Detector	Slow		
Preamplifier	PRM6E11		
Microphone Correction	Off		
Integration Method	Linear		
OBA Range	Normal		
OBA Bandwidth	1/1 and 1/3		
OBA Frequency Weighting	Z Weighting		
OBA Max Spectrum	Bin Max		
Gain	0.0 dB		
Overload	143.3 dB		
	A	C	Z
Under Range Peak	75.9	72.9	77.9 dB
Under Range Limit	26.2	26.4	31.9 dB
Noise Floor	17.0	17.3	22.5 dB
Instrument Identification	First	Second	Third
	831-5		

Results		
Ldn	74.3	
LAE	102.1	
EA	1.814 mPa ² /h	
L _{Aeq} (max)	2021-11-19 14:07:16	101.1 dB
L _{Amax}	2021-11-19 14:07:17	90.4 dB
L _{Amin}	2021-11-19 14:01:26	60.7 dB
SEA		

Exceedance Counts		Duration
LAS > 65.0 dB	2	586.5 s
LAS > 85.0 dB	1	4.0 s
L _{Amax} > 135.0 dB	0	0.0 s
L _{Amax} > 137.0 dB	0	0.0 s
L _{Amax} > 140.0 dB	0	0.0 s

Community Noise						
Ldn	LDay 07:00-22:00	LNight 22:00-07:00	Ldn	LDay 07:00-19:00	LEvening 19:00-22:00	LNight 22:00-07:00
74.3	74.3		74.3	74.3		

L _{Ceq}	82.8 dB
L _{Aeq}	74.3 dB
L _{Ceq} - L _{Aeq}	8.5 dB
L _{Aeq}	75.4 dB
L _{Aeq}	74.3 dB
L _{Aeq} - L _{Aeq}	1.1 dB

A		C		Z	
dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	74.3	82.8		83.7	
L _{Aeq} (max)	90.4	101.0	2021/11/19 14:07:17	101.1	2021/11/19 14:07:17
L _{Aeq} (min)	93.2	102.8	2021/11/19 14:07:16	102.8	2021/11/19 14:07:16
L _{Aeq} (max)	93.8	103.2	2021/11/19 14:07:16	103.2	2021/11/19 14:07:16
L _{Aeq} (min)	60.7	71.1	2021/11/19 14:01:26	73.5	2021/11/19 14:01:26
L _{Aeq} (max)	59.4	69.0	2021/11/19 14:01:25	70.7	2021/11/19 14:01:25
L _{Aeq} (min)	59.6	71.5	2021/11/19 14:01:25	74.6	2021/11/19 14:01:27
L _{Aeq} (max)	101.1	109.9	2021/11/19 14:07:16	110.1	2021/11/19 14:07:16

Overload Count	0
Overload Duration	0
OBA Overload Count	0
OBA Overload Duration	0.0 s

Statistics	
LA 2.00	76.7 dB
LA 8.00	77.1 dB
LA 25.00	75.1 dB
LA 50.00	73.1 dB
LA 90.00	66.7 dB
LA 98.00	64.3 dB

Calibration History					
Preamp	Date	dB re 1V/Pa	6.3	8.0	10.0
Direct	2019-09-30 11:45:45	-33.00	31.41	36.51	38.14
Direct	2019-09-30 11:45:28	-33.01	30.36	24.91	26.76
PRM6E11	2021-11-19 13:16:15	-25.80	63.87	61.75	66.55
PRM6E11	2021-11-19 13:16:01	-25.90	74.69	84.41	93.97
PRM6E11	2021-11-16 14:16:11	-25.86	57.12	53.87	56.12
PRM6E11	2021-11-16 14:15:57	-25.87	59.60	56.06	59.33
PRM6E11	2021-11-12 10:13:07	-26.18	57.06	52.03	54.88
PRM6E11	2021-11-09 14:09:08	-26.13	38.97	45.07	47.73
PRM6E11	2021-11-08 16:08:43	-26.44	38.83	40.19	49.40
PRM6E11	2021-11-08 16:06:06	-26.47	121.52	112.15	62.03
PRM6E11	2021-11-03 08:48:43	-26.15	48.11	49.99	47.39
PRM6E11	2021-11-03 08:48:37	-26.18	107.97	110.90	66.20
PRM6E11	2021-11-02 08:30:36	-26.33	44.97	42.90	53.49

12.5	16.0	20.0	25.0	31.5	40.0	50.0	63.0	80.0	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000
34.95	39.23	38.20	37.37	33.53	35.19	38.15	41.20	39.13	37.57	47.24	111.98	70.99	49.97	60.92	37.23	54.14	35.34	33.15	33.80	33.84	35.85	35.55	36.64	37.79	38.60	39.73	40.72	42.02	43.35	44.60	45.51	47.42
25.75	31.33	27.57	27.72	31.06	25.05	25.36	29.74	26.48	25.03	28.67	104.99	48.70	26.66	54.06	23.15	48.50	27.37	25.62	26.53	26.66	27.91	28.60	29.96	30.51	31.43	32.45	33.92	35.05	36.17	37.32	38.27	40.11
60.37	62.01	54.05	55.52	60.36	53.00	51.16	55.94	51.94	50.93	52.62	50.21	44.47	46.32	44.32	42.86	40.69	31.73	30.99	113.98	49.25	28.39	63.04	29.42	53.62	32.07	33.43	34.02	35.22	36.58	37.74	38.83	40.66
80.18	72.28	66.66	66.53	70.98	63.23	62.26	57.43	62.09	56.48	51.16	51.29	52.35	46.35	45.34	49.38	46.96	35.97	31.61	113.95	48.99	26.99	62.95	30.00	57.59	32.15	33.11	34.19	35.35	36.30	37.68	38.70	40.52
50.67	55.57	63.32	56.35	56.48	58.05	61.16	59.82	61.11	56.02	57.41	67.83	51.96	52.04	47.80	49.30	42.96	37.17	33.78	113.99	48.94	28.61	63.08	30.50	57.62	32.08	33.43	33.85	35.34	36.67	37.64	38.93	40.78
63.83	60.08	58.25	51.17	58.32	56.34	60.51	71.96	57.71	60.91	60.44	57.45	56.76	54.31	52.70	50.61	45.04	40.38	35.24	114.29	49.48	29.02	63.30	30.58	57.88	32.17	33.77	34.68	35.96	36.97	38.06	39.03	41.04
58.78	60.20	44.09	41.06	47.80	50.44	54.03	42.60	46.61	40.28	37.36	35.84	34.24	31.54	31.24	31.35	26.46	25.93	29.38	113.94	48.53	28.14	66.56	30.31	62.08	33.70	35.35	34.02	35.77	37.05	37.93	39.05	41.37
59.25	59.08	49.32	51.53	54.16	51.51	49.01	48.69	48.36	40.20	44.82	43.13	41.86	38.07	37.81	35.64	30.37	30.02	30.90	114.29	49.05	28.82	67.01	29.88	62.35	33.54	35.62	34.53	35.75	36.90	38.24	39.55	41.52
54.56	63.66	59.99	55.92	49.67	61.59	64.07	49.92	47.71	46.82	43.30	44.48	41.77	38.76	39.04	41.79	41.34	38.30	41.39	114.01	49.49	29.73	62.53	30.30	57.95	32.69	34.17	34.90	36.09	37.18	38.25	39.39	41.19
65.95	64.80	51.06	56.67	59.99	59.02	64.99	49.24	52.23	56.18	53.20	48.75	47.05	45.97	45.75	44.04	38.57	32.72	34.77	113.67	48.80	28.54	62.06	30.50	57.63	32.38	33.49	34.49	35.78	36.80	37.96	39.19	40.97
51.96	55.05	45.18	46.82	54.52	56.03	55.26	58.49	54.72	51.79	51.14	52.56	45.29	46.02	41.24	42.77	40.89	33.97	30.95	114.01	49.21	28.81	62.73	29.91	57.60	32.49	33.37	34.30	35.71	36.60	37.82	39.14	40.80
61.04	52.55	51.24	53.32	51.70	55.77	57.55	55.85	55.51	54.56	54.81	53.07	46.43	44.60	45.33	44.62	43.09	34.44	30.48	114.14	49.23	29.11	62.80	30.50	57.77	31.90	33.69	34.79	35.67	36.97	38.03	39.09	41.02
50.44	49.66	56.24	38.33	45.65	41.53	39.89	36.37	30.39	26.92	37.62	27.82	29.72	26.28	25.37	29.43	11.76	26.30	29.45	113.99	48.96	28.17	64.18	30.81	59.83	32.49	34.12	34.31	35.75	36.88	38.10	39.11	41.23

Site Number: NM-2			
Recorded By: Justin Reynolds, Bollard Acoustical Consultants, Inc.			
Job Number: 185544			
Date: 11/19/2021			
Time: 1:20 PM			
Location: South of Towers Land and Lexann Avenue Intersection			
Source of Peak Noise: Traffic			
Noise Data			
Leq (dB)	Lmax(dB)	Lmin (dB)	Peak (dB)
63.5	80.4	49.7	92.4

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Larson Davis	831	3888	October 2021	
	Microphone	LD	377B02	333280	October 2021	
	Preamplifier	LD	PRM831	029367	October 2021	
	Calibrator	LD	CAL200	3301	April 2021	
Weather Data						
Est.	Duration: 10 minutes			Sky: Cloudy		
	Note: dBA Offset =			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	NW 7 mph		67		30.1	

Photo of Measurement Location



Summary	
File Name on Meter	831_Data_0113
File Name on PC	831_0003888-20211119 13:19:13-831_Data_0113.lbin
Serial Number	0003888
Model	Model 831
Firmware Version	2.314
User	
Location	
Job Description	
Note	

Measurement	
Description	
Start	2021-11-19 13:19:13
Stop	2021-11-19 13:29:13
Duration	00:10:00.0
Run Time	00:10:00.0
Pause	00:00:00.0
Pre-Calibration	2021-11-19 13:16:15
Post-Calibration	None
Calibration Deviation	---

Device Settings			
RMS Weight	A Weighting		
Peak Weight	A Weighting		
Detector	Slow		
Preamplifier	PRM0511		
Microphone Correction	Off		
Integration Method	Linear		
OMA Range	Normal		
OMA Bandwidth	1/1 and 1/3		
OMA Frequency Weighting	Z Weighting		
OMA Max Spectrum	Bin Max		
Gain	0.0 dB		
Overload	143.3 dB		
	A	C	Z
Under Range Peak	75.9	72.9	77.9 dB
Under Range Limit	26.2	26.4	31.9 dB
Noise Floor	17.0	17.3	22.5 dB
Instrument Identification	First	Second	Third
	831-5		

Results		
L _{eq}	63.5	
L _{Aeq}	91.2	
FA	147.779 µPa ² /h	
L _{eq} (max)	2021-11-19 13:29:04	92.4 dB
L _{Amax}	2021-11-19 13:24:46	80.4 dB
L _{min}	2021-11-19 13:25:45	49.7 dB
SEA	dB	

Exceedance Counts	
LAS > 65.0 dB	17
LAS > 85.0 dB	0
L _{Amax} > 135.0 dB	0
L _{eqmax} > 137.0 dB	0
L _{eq} > 140.0 dB	0

Community Noise						
L _{dn}	L _{Day 07:00-22:00}	L _{Night 22:00-07:00}	L _{den}	L _{Day 07:00-19:00}	L _{Evening 19:00-22:00}	L _{Night 22:00-07:00}
63.5	63.5		63.5	63.5		

L _{Ceq}	76.8 dB
L _{Aeq}	63.5 dB
L _{Ceq} - L _{Aeq}	13.4 dB
L _{Aeq}	63.5 dB
L _{Aeq}	63.5 dB
L _{Aeq} - L _{Aeq}	2.1 dB

A		C		Z	
dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
63.5		76.8		77.8	
80.4	2021/11/19 13:24:46	94.1	2021/11/19 13:22:18	94.6	2021/11/19 13:22:18
83.1	2021/11/19 13:24:46	96.6	2021/11/19 13:29:04	96.8	2021/11/19 13:29:04
83.9	2021/11/19 13:24:46	98.1	2021/11/19 13:29:04	98.3	2021/11/19 13:29:04
49.7	2021/11/19 13:25:45	63.1	2021/11/19 13:26:13	65.4	2021/11/19 13:19:30
48.9	2021/11/19 13:25:45	61.5	2021/11/19 13:20:50	63.4	2021/11/19 13:27:06
49.4	2021/11/19 13:25:44	63.5	2021/11/19 13:26:13	66.2	2021/11/19 13:19:30
92.4	2021/11/19 13:29:04	103.6	2021/11/19 13:24:46	103.9	2021/11/19 13:24:46

Overload Count	0
Overload Duration	0.0 s
OMA Overload Count	0
OMA Overload Duration	0.0 s

Limits	
LA 2.00	71.5 dB
LA 8.00	65.8 dB
LA 25.00	62.8 dB
LA 50.00	59.3 dB
LA 90.00	54.5 dB
LA 98.00	51.3 dB

Calibration History					
Preamp	Date	dB re 1V/Pa	6.3	8.0	10.0
Direct	2019-09-30 11:45:45	-33.00	31.41	36.51	38.14
Direct	2019-09-30 11:45:28	-33.01	30.36	24.91	26.76
PRM0511	2021-11-19 13:16:15	-25.80	61.75	66.55	66.55
PRM0511	2021-11-19 13:16:01	-25.90	74.69	84.41	93.97
PRM0511	2021-11-16 14:16:11	-25.86	57.12	53.87	56.12
PRM0511	2021-11-16 14:15:57	-25.87	59.60	56.06	54.08
PRM0511	2021-11-12 10:13:07	-26.18	56.06	50.33	54.98
PRM0511	2021-11-09 14:09:08	-26.13	38.97	45.07	52.73
PRM0511	2021-11-08 16:08:03	-26.44	38.83	40.18	49.40
PRM0511	2021-11-08 16:06:06	-26.47	121.52	112.15	67.03
PRM0511	2021-11-03 08:48:43	-26.15	48.11	49.99	47.39
PRM0511	2021-11-03 08:48:37	-26.18	107.97	110.90	66.20
PRM0511	2021-11-02 08:30:36	-26.33	44.97	42.80	53.49

12.5	16.0	20.0	25.0	31.5	40.0	50.0	63.0	80.0	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000
34.95	39.23	38.20	37.37	33.53	35.19	38.15	41.20	39.13	37.57	47.24	111.98	70.99	49.97	60.92	37.23	54.14	35.34	33.15	33.80	33.84	35.85	35.55	36.64	37.79	38.60	39.73	40.72	42.02	43.35	44.60	45.51	47.42
25.75	31.33	27.57	27.72	31.06	25.05	25.36	29.74	26.48	25.03	28.67	104.99	48.70	26.66	54.06	23.15	48.50	27.37	25.62	26.53	26.66	27.91	28.60	29.96	30.51	31.43	32.45	33.92	35.05	36.17	37.32	38.27	40.11
60.37	62.01	54.05	55.52	60.36	53.00	51.16	55.94	51.94	50.93	52.62	50.21	44.47	46.32	44.32	42.86	40.69	31.73	30.99	113.98	49.25	28.39	63.04	29.42	53.62	32.07	33.43	34.02	35.22	36.58	37.74	38.83	40.66
80.18	72.28	66.66	66.53	70.98	63.23	62.26	57.43	62.09	56.48	51.16	51.29	52.35	46.35	45.34	49.38	46.96	35.97	31.61	113.95	48.99	26.99	62.95	30.00	57.59	32.15	33.11	34.19	35.35	36.30	37.68	38.70	40.52
50.67	55.57	63.32	56.35	56.48	58.05	61.16	59.82	61.11	56.02	57.41	67.83	51.96	52.04	47.80	49.30	42.96	37.17	33.78	113.99	48.94	28.61	63.08	30.50	57.62	32.08	33.43	33.85	35.34	36.67	37.64	38.93	40.78
63.83	60.08	58.25	51.17	58.32	56.34	60.51	71.96	57.71	60.91	60.44	57.45	56.76	54.31	52.70	50.61	45.04	40.38	35.24	114.29	49.48	29.02	63.30	30.58	57.88	32.17	33.77	34.68	35.96	36.97	38.06	39.03	41.04
58.78	60.20	44.09	41.06	47.80	50.44	54.03	42.60	46.61	40.28	37.36	35.84	34.24	31.54	31.24	31.35	26.46	25.93	29.38	113.94	48.53	28.14	66.56	30.31	62.08	33.70	35.35	34.02	35.77	37.05	37.93	39.05	41.37
59.25	59.08	49.32	51.53	54.16	51.51	49.01	48.69	48.36	40.20	44.82	43.13	41.86	38.07	37.81	35.64	30.37	30.02	30.90	114.29	49.05	28.82	67.01	29.88	62.35	33.54	35.62	34.53	35.75	36.90	38.24	39.55	41.52
54.56	63.66	59.99	56.92	49.67	61.59	64.07	49.92	47.71	46.82	43.30	44.48	41.77	38.76	39.04	41.79	41.34	38.30	41.39	114.01	49.49	29.73	62.53	30.30	57.95	32.69	34.17	34.90	36.09	37.18	38.25	39.39	41.19
65.95	64.80	51.06	56.67	59.89	58.02	64.99	49.24	52.23	56.18	53.20	48.75	47.05	45.57	45.75	44.04	38.57	32.72	34.77	113.67	48.80	28.54	62.06	30.50	57.63	32.38	33.49	34.49	35.78	36.80	37.96	39.19	40.97
51.96	55.05	45.18	46.82	54.52	56.03	55.26	58.49	54.72	51.79	51.14	52.56	45.29	46.02	41.24	42.77	40.89	33.97	30.95	114.01	49.21	28.81	62.73	29.91	57.60	32.49	33.37	34.30	35.71	36.60	37.82	39.14	40.80
61.04	52.55	51.24	51.32	51.70	55.77	57.55	55.85	55.51	54.56	54.81	53.07	46.43	44.60	45.33	44.62	43.09	34.44	30.48	114.14	49.23	29.11	62.80	30.50	57.77	31.90	33.69	34.79	35.67	36.97	38.03	39.09	41.02
50.44	49.66	56.24	38.33	45.65	41.53	39.89	38.37	30.39	26.92	37.62	27.82	29.72	26.28	25.37	29.43	11.76	26.30	29.45	113.99	48.96	28.17	64.18	30.11	59.83	32.49	34.12	34.31	35.75	36.88	38.10	39.11	41.23

Site Number: NM-3			
Recorded By: Justin Reynolds, Bollard Acoustical Consultants, Inc.			
Job Number: 185544			
Date: 11/19/2021			
Time: 1:39 PM			
Location: North of Aborn Road and Silver Creek Road Intersection			
Source of Peak Noise: Traffic			
Noise Data			
Leq (dB)	Lmax(dB)	Lmin (dB)	Peak (dB)
62.8	75.3	53.2	87.3

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Larson Davis	831	3888	October 2021	
	Microphone	LD	377B02	333280	October 2021	
	Preamp	LD	PRM831	029367	October 2021	
	Calibrator	LD	CAL200	3301	April 2021	
Weather Data						
Est.	Duration: 10 minutes			Sky: Cloudy		
	Note: dBA Offset =			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	NW 7 mph		67		30.1	

Photo of Measurement Location



Summary	
File Name on Meter	831_Data_0121
File Name on PC	831_0003888-20211119 13:38:37 831_Data_0121.lbin
Serial Number	0003888
Model	Model 831
Firmware Version	2.314
User	
Location	
Job Description	
Note	

Measurement	
Description	
Start	2021-11-19 13:38:37
Stop	2021-11-19 13:48:37
Duration	00:10:00.0
Run Time	00:10:00.0
Pause	00:00:00.0
Pre-Calibration	2021-11-19 13:16:15
Post-Calibration	None
Calibration Deviation	--

Device Settings			
RMS Weight	A Weighting		
Peak Weight	A Weighting		
Detector	Slow		
Preamplifier	PRM011		
Microphone Correction	Off		
Integration Method	Linear		
OBA Range	Normal		
OBA Bandwidth	1/1 and 1/3		
OBA Frequency Weighting	Z Weighting		
OBA Max Spectrum	Bin Max		
Gain	0.0 dB		
Overload	143.3 dB		
	A	C	Z
Under Range Peak	75.9	72.9	77.9 dB
Under Range Limit	26.2	26.4	31.9 dB
Noise Floor	17.0	17.3	22.5 dB
Instrument Identification	First	Second	Third
	831-5		

Results		
Ldn	62.8	
LAE	90.6	
FA	128.13 µPa/h	
LApin(max)	2021-11-19 13:47:37	87.3 dB
LASmax	2021-11-19 13:45:04	75.3 dB
LASmin	2021-11-19 13:38:43	53.2 dB
SEA	0.9 dB	

Exceedance Counts		Duration
LAS > 65.0 dB	10	77.1 s
LAS > 85.0 dB	0	0.0 s
LApin > 135.0 dB	0	0.0 s
LApin > 137.0 dB	0	0.0 s
LApin > 140.0 dB	0	0.0 s

Community Noise		Ldn	LDay 07:00-22:00	LNight 22:00-07:00	Lden	LDay 07:00-19:00	LEvening 19:00-22:00	LNight 22:00-07:00
		62.8	62.8		62.8	62.8		

LCeq	74.3 dB
LAnq	62.8 dB
LCeq - LAnq	11.4 dB
LCeq	63.7 dB
LAnq	62.8 dB
LAnq - LAnq	0.9 dB

A		C		Z		
dB	Time Stamp	dB	Time Stamp	dB	Time Stamp	
Leq	62.8	74.3		75.5		
L10min	75.3	2021/11/19 13:45:04	88.4	2021/11/19 13:45:04	88.6	2021/11/19 13:45:04
L10max	76.8	2021/11/19 13:45:04	89.7	2021/11/19 13:45:04	90.0	2021/11/19 13:45:04
L10min	77.8	2021/11/19 13:45:04	90.6	2021/11/19 13:45:03	90.8	2021/11/19 13:47:36
L10max	53.2	2021/11/19 13:38:43	64.0	2021/11/19 13:38:45	66.1	2021/11/19 13:38:49
L10min	52.0	2021/11/19 13:38:42	61.9	2021/11/19 13:38:42	64.1	2021/11/19 13:38:42
L10max	52.9	2021/11/19 13:38:43	64.0	2021/11/19 13:38:49	66.9	2021/11/19 13:38:49
L10min	87.3	2021/11/19 13:47:37	99.2	2021/11/19 13:47:37	99.6	2021/11/19 13:47:37

Overload Count	0
Overload Duration	0.0 s
OBA Overload Count	0
OBA Overload Duration	0.0 s

Limits	
LA 2.00	70.9 dB
LA 8.00	65.3 dB
LA 25.00	62.7 dB
LA 50.00	60.7 dB
LA 90.00	57.0 dB
LA 98.00	55.7 dB

Calibration History					
Presp.	Date	dB re 1V/Pa	6.3	8.0	10.0
Direct	2019-09-30 11:45:45	-33.00	31.41	36.51	38.14
Direct	2019-09-30 11:45:28	-33.01	30.36	24.91	26.76
PRM011	2021-11-19 13:16:15	-25.80	61.75	66.55	66.55
PRM011	2021-11-19 13:16:01	-25.90	74.69	84.41	93.97
PRM011	2021-11-16 14:16:11	-25.86	56.12	53.87	56.12
PRM011	2021-11-16 14:15:57	-25.87	114.13	99.60	75.28
PRM011	2021-11-12 10:13:07	-26.18	57.06	50.33	54.08
PRM011	2021-11-09 14:09:08	-26.13	38.97	45.07	52.73
PRM011	2021-11-08 16:08:43	-26.44	38.83	40.18	49.40
PRM011	2021-11-08 16:06:06	-26.47	121.52	112.15	67.03
PRM011	2021-11-03 08:48:43	-26.15	48.11	49.99	47.39
PRM011	2021-11-03 08:48:37	-26.18	107.97	110.90	66.20
PRM011	2021-11-02 08:30:36	-26.33	44.97	42.80	53.49

12.5	16.0	20.0	25.0	31.5	40.0	50.0	63.0	80.0	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000
34.95	39.23	38.20	37.37	33.53	35.19	38.15	41.20	39.13	37.57	47.24	111.98	70.99	49.97	60.92	37.23	54.14	35.34	33.15	33.80	33.84	35.85	35.55	36.64	37.79	38.60	39.73	40.72	42.02	43.35	44.60	45.51	47.42
25.75	31.33	27.57	27.72	31.06	25.05	25.36	29.74	26.48	25.03	28.67	104.99	48.70	26.66	54.06	23.15	48.50	27.37	25.62	26.53	26.66	27.91	28.60	29.96	30.51	31.43	32.45	33.92	35.05	36.17	37.32	38.27	40.11
60.37	62.01	54.05	55.52	60.36	53.00	51.16	55.94	51.94	50.93	52.62	50.21	44.47	46.32	44.32	42.86	40.69	31.73	30.99	113.98	49.25	28.39	63.04	29.42	53.62	32.07	33.43	34.02	35.22	36.58	37.74	38.83	40.66
80.18	72.28	66.66	66.53	70.98	63.23	62.26	57.43	62.09	56.48	51.16	51.29	52.35	46.35	45.34	49.38	46.96	35.97	31.61	113.95	48.99	26.99	62.95	30.00	57.59	32.15	33.11	34.19	35.35	36.30	37.68	38.70	40.52
50.67	55.57	63.32	56.35	56.48	58.05	61.16	59.82	61.11	56.02	57.41	67.83	51.96	52.04	47.80	49.30	42.96	37.17	33.78	113.99	48.94	28.61	63.08	30.50	57.62	32.08	33.43	33.85	35.34	36.67	37.64	38.93	40.78
63.83	60.08	58.25	51.17	58.32	56.34	60.51	71.96	57.71	60.91	60.44	57.45	56.76	54.31	52.70	50.61	45.04	40.38	35.24	114.29	49.48	29.02	63.30	30.58	57.88	32.17	33.77	34.68	35.96	36.97	38.06	39.03	41.04
58.78	60.20	44.09	41.06	47.80	50.44	54.03	42.60	46.61	40.28	37.36	35.84	34.24	31.54	31.24	31.35	26.46	25.93	29.38	113.94	48.53	28.14	66.56	30.31	62.08	33.70	35.35	34.02	35.77	37.05	37.93	39.05	41.37
59.25	59.08	49.32	51.53	54.16	51.51	49.01	48.69	48.36	40.20	44.82	43.13	41.86	38.07	37.81	35.64	30.37	30.02	30.90	114.29	49.05	28.82	67.01	29.88	62.35	33.54	35.62	34.53	35.75	36.90	38.24	39.55	41.52
54.56	63.66	59.99	55.92	49.67	61.59	64.07	49.92	47.71	46.82	43.30	44.48	41.77	38.76	39.04	41.79	41.34	38.30	41.39	114.01	49.49	29.73	62.53	30.30	57.95	32.69	34.17	34.90	36.09	37.18	38.25	39.39	41.19
65.96	64.80	51.06	56.67	59.89	58.02	64.99	49.24	52.28	56.18	53.20	48.75	47.05	45.57	45.75	44.04	38.57	32.72	34.77	113.67	48.80	28.54	62.06	30.50	57.63	32.38	33.49	34.49	35.78	36.80	37.96	39.19	40.97
51.96	55.05	45.18	46.82	54.52	56.03	55.26	58.49	54.72	51.79	51.14	52.56	45.29	46.02	41.24	42.77	40.89	33.97	30.95	114.01	49.21	28.81	62.73	29.91	57.60	32.49	33.37	34.30	35.71	36.60	37.82	39.14	40.80
61.04	52.55	51.24	53.32	51.70	55.77	57.55	55.85	55.51	54.56	54.81	53.07	46.43	44.60	45.33	44.62	43.09	34.44	30.48	114.14	49.23	29.11	62.80	30.50	57.77	31.90	33.69	34.79	35.67	36.97	38.03	39.09	41.02
50.44	49.66	56.24	38.33	45.65	41.53	39.89	36.37	30.39	26.92	37.62	27.82	29.72	26.28	25.37	29.43	11.76	26.30	29.45	113.99	48.96	28.17	64.18	30.81	59.83	32.49	34.12	34.31	35.75	36.88	38.50	39.11	41.23

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 185544
 Project Name: San Jose Chick-fil-A
 Scenario: Existing

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
 Source of Traffic Volumes: Hexagon Transportation Consultants, Inc. (2021)
 Community Noise Descriptor: L_{dn} : _____ CNEL: x _____

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway					Calc Dist
						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	Distance to Contour				
								70 CNEL	65 CNEL	60 CNEL	55 CNEL		
Capitol Expressway													
South of Silver Creek Road	8	24	52,430	45	0.5	1.8%	0.7%	69.7	95	205	442	952	100
Silver Creek Road and Aborn Road	8	24	50,460	45	0.5	1.8%	0.7%	69.5	93	200	431	928	100
North of Aborn Road	8	32	36,710	45	0.5	1.8%	0.7%	68.3	-	167	360	776	100
King Road													
North of Aborn Road	4	15	18,380	35	0.5	1.8%	0.7%	61.7	-	60	130	280	100
Silver Creek Road													
Aborn Road and Lexann Avenue	4	15	15,400	35	0.5	1.8%	0.7%	60.9	-	54	116	249	100
Lexann Avenue and Capitol Expressway	4	15	26,680	35	0.5	1.8%	0.7%	63.3	-	77	167	359	100
East of Capitol Expressway	4	15	34,400	35	0.5	1.8%	0.7%	64.4	-	92	197	425	100
Aborn Road													
West of Silver Creek Road	2	0	3,880	25	0.5	1.8%	0.7%	52.2	-	-	-	66	100
Silver Creek Road and Capitol Expressway	4	15	12,570	40	0.5	1.8%	0.7%	61.4	-	57	123	266	100
East of Capitol Expressway	6	15	35,880	40	0.5	1.8%	0.7%	66.2	-	120	259	558	100
Lexann Avenue													
West of Silver Creek Road	2	0	4,800	40	0.5	1.8%	0.7%	57.0	-	-	63	136	100

¹ Distance is from the centerline of the roadway segment to the receptor location.
 "-" = contour is located within the roadway right-of-way.

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 185544
 Project Name: San Jose Chick-fil-A
 Scenario: Opening Year

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
 Source of Traffic Volumes: Hexagon Transportation Consultants, Inc. (2021)
 Community Noise Descriptor: L_{dn} : _____ CNEL: _____ x

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway					Calc Dist
						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	Distance to Contour				
								70 CNEL	65 CNEL	60 CNEL	55 CNEL		
Capitol Expressway													
South of Silver Creek Road	8	24	54,000	45	0.5	1.8%	0.7%	69.8	97	209	451	971	100
Silver Creek Road and Aborn Road	8	24	52,780	45	0.5	1.8%	0.7%	69.7	96	206	444	956	100
North of Aborn Road	8	32	42,390	45	0.5	1.8%	0.7%	69.0	85	184	396	854	100
King Road													
North of Aborn Road	4	15	20,150	35	0.5	1.8%	0.7%	62.1	-	64	138	298	100
Silver Creek Road													
Aborn Road and Lexann Avenue	4	15	16,570	35	0.5	1.8%	0.7%	61.3	-	56	121	261	100
Lexann Avenue and Capitol Expressway	4	15	28,750	35	0.5	1.8%	0.7%	63.7	-	81	175	377	100
East of Capitol Expressway	4	15	37,300	35	0.5	1.8%	0.7%	64.8	-	97	208	449	100
Aborn Road													
West of Silver Creek Road	2	0	3,880	25	0.5	1.8%	0.7%	52.2	-	-	-	66	100
Silver Creek Road and Capitol Expressway	4	15	13,510	40	0.5	1.8%	0.7%	61.7	-	60	130	279	100
East of Capitol Expressway	6	15	40,280	40	0.5	1.8%	0.7%	66.7	-	130	280	603	100
Lexann Avenue													
West of Silver Creek Road	2	0	4,830	40	0.5	1.8%	0.7%	57.0	-	-	63	136	100

¹ Distance is from the centerline of the roadway segment to the receptor location.
 "-" = contour is located within the roadway right-of-way.

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 185544
Project Name: San Jose Chick-fil-A
Scenario: Opening Year + Project

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
 Source of Traffic Volumes: Hexagon Transportation Consultants, Inc. (2021)
 Community Noise Descriptor: L_{dn} : _____ CNEL: x

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway					Calc Dist
						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	Distance to Contour				
								70 CNEL	65 CNEL	60 CNEL	55 CNEL		
Capitol Expressway													
South of Silver Creek Road	8	24	54,150	45	0.5	1.8%	0.7%	69.8	97	210	451	973	100
Silver Creek Road and Aborn Road	8	24	53,100	45	0.5	1.8%	0.7%	69.7	96	207	446	960	100
North of Aborn Road	8	32	42,650	45	0.5	1.8%	0.7%	69.0	86	185	398	857	100
King Road													
North of Aborn Road	4	15	20,320	35	0.5	1.8%	0.7%	62.1	-	65	139	299	100
Silver Creek Road													
Aborn Road and Lexann Avenue	4	15	17,000	35	0.5	1.8%	0.7%	61.4	-	57	123	266	100
Lexann Avenue and Capitol Expressway	4	15	28,750	35	0.5	1.8%	0.7%	63.7	-	81	175	377	100
East of Capitol Expressway	4	15	37,340	35	0.5	1.8%	0.7%	64.8	-	97	209	449	100
Aborn Road													
West of Silver Creek Road	2	0	3,880	25	0.5	1.8%	0.7%	52.2	-	-	-	66	100
Silver Creek Road and Capitol Expressway	4	15	13,760	40	0.5	1.8%	0.7%	61.8	-	61	131	282	100
East of Capitol Expressway	6	15	40,410	40	0.5	1.8%	0.7%	66.7	-	130	280	604	100
Lexann Avenue													
West of Silver Creek Road	2	0	5,610	40	0.5	1.8%	0.7%	57.7	-	32	70	150	100

¹ Distance is from the centerline of the roadway segment to the receptor location.

"-" = contour is located within the roadway right-of-way.