

Site Number: 1			
Recorded By: Ryan Chiene			
Job Number: 153095			
Date: 8/11/2016			
Time: 10:08 a.m.			
Location: Old Battlefield Road, just north of West Zoo Road.			
Source of Peak Noise: Trucks pulling out of zoo entrance, cars on Old Battlefield Road, PA system at zoo.			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
65.3	38.4	92.8	88.2

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	11/18/2014	
	Microphone	Brüel & Kjær	4189	2543364	11/18/2014	
	Preamp	Brüel & Kjær	ZC 0032	4265	11/18/2014	
	Calibrator	Brüel & Kjær	4231	2545667	11/18/2014	
Weather Data						
Est.	Duration: 10 minutes			Sky: Sunny		
	Note: dBA Offset = -0.02			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	2.4		75.0		29.97	

Photo of Measurement Location





2250

Instrument:		2250
Application:		BZ7225 Version 4.4
Start Time:		08/11/2016 10:08:40
End Time:		08/11/2016 10:18:40
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		138.71

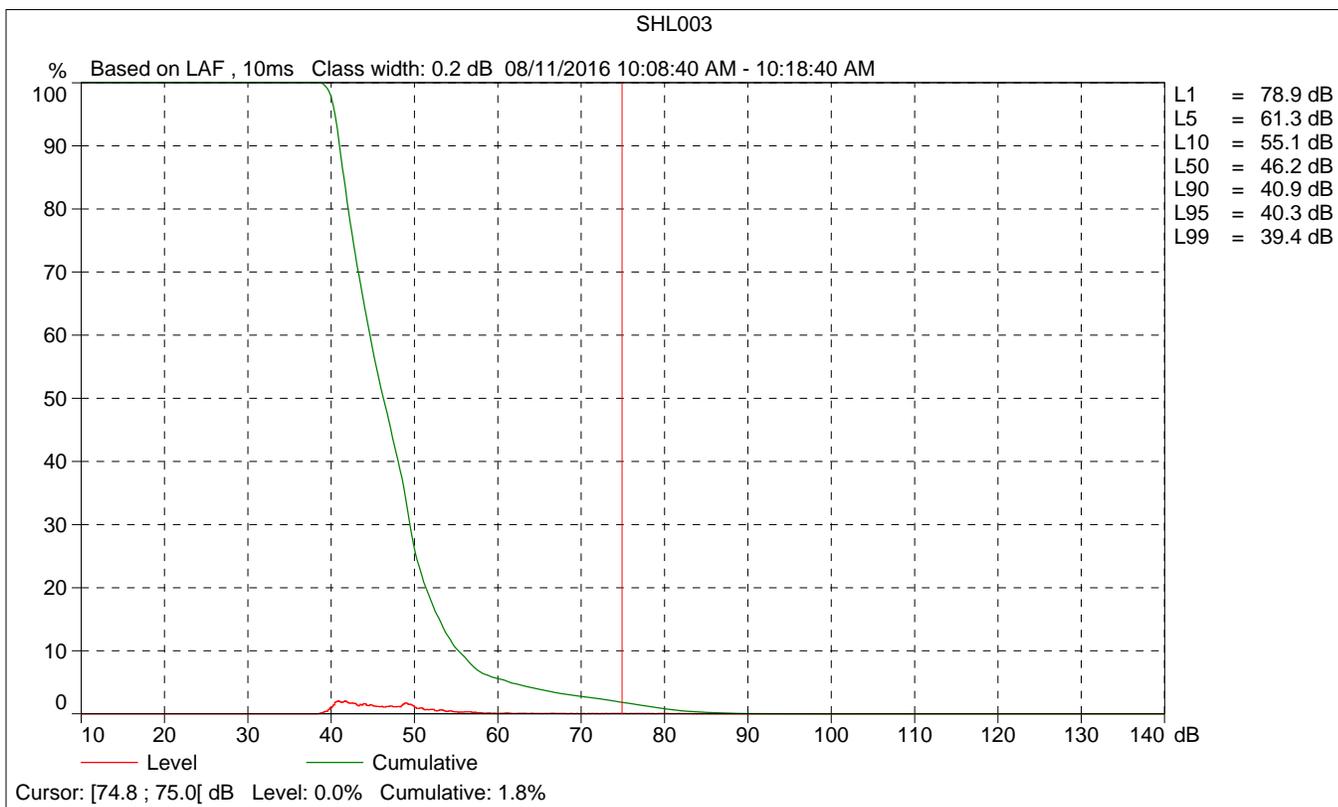
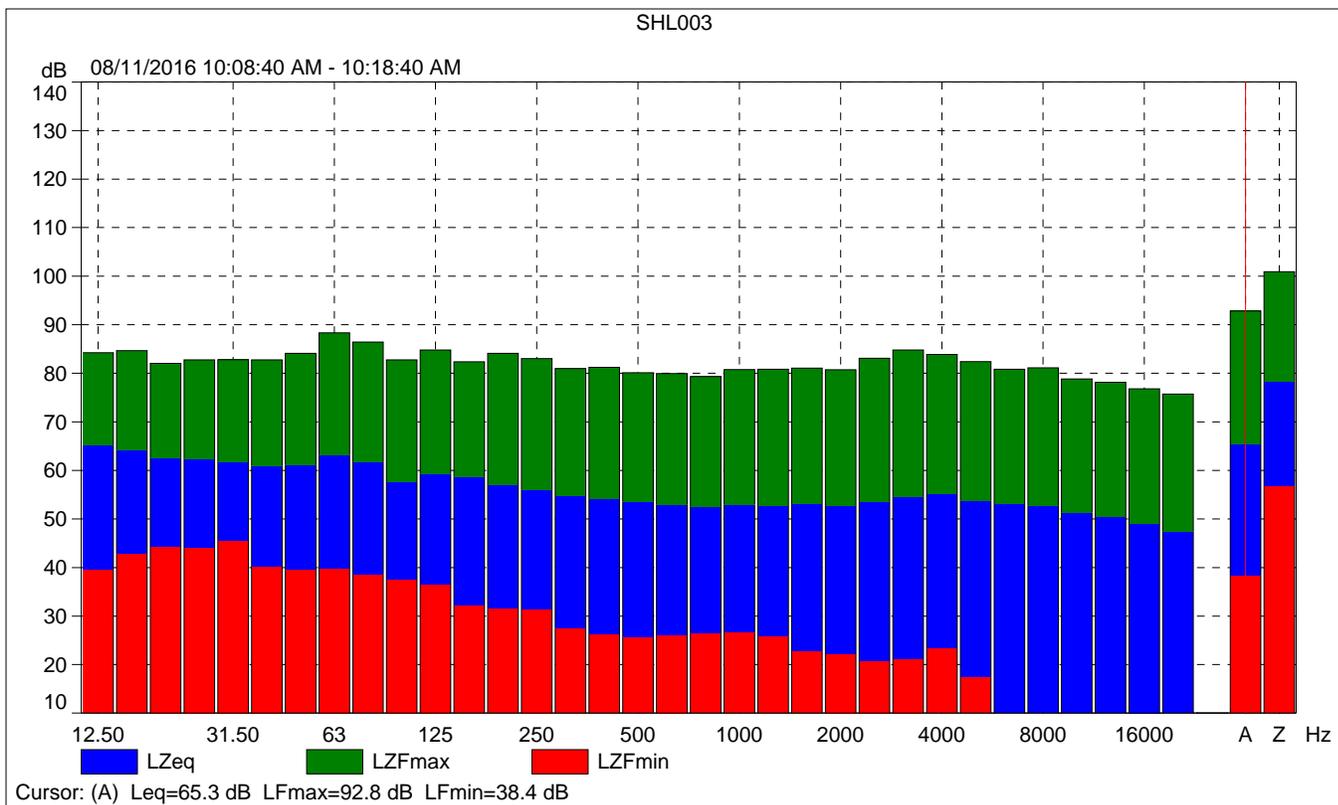
	Time	Frequency
Broadband (excl. Peak):	FSI	AZ
Broadband Peak:		C
Spectrum:	FS	Z

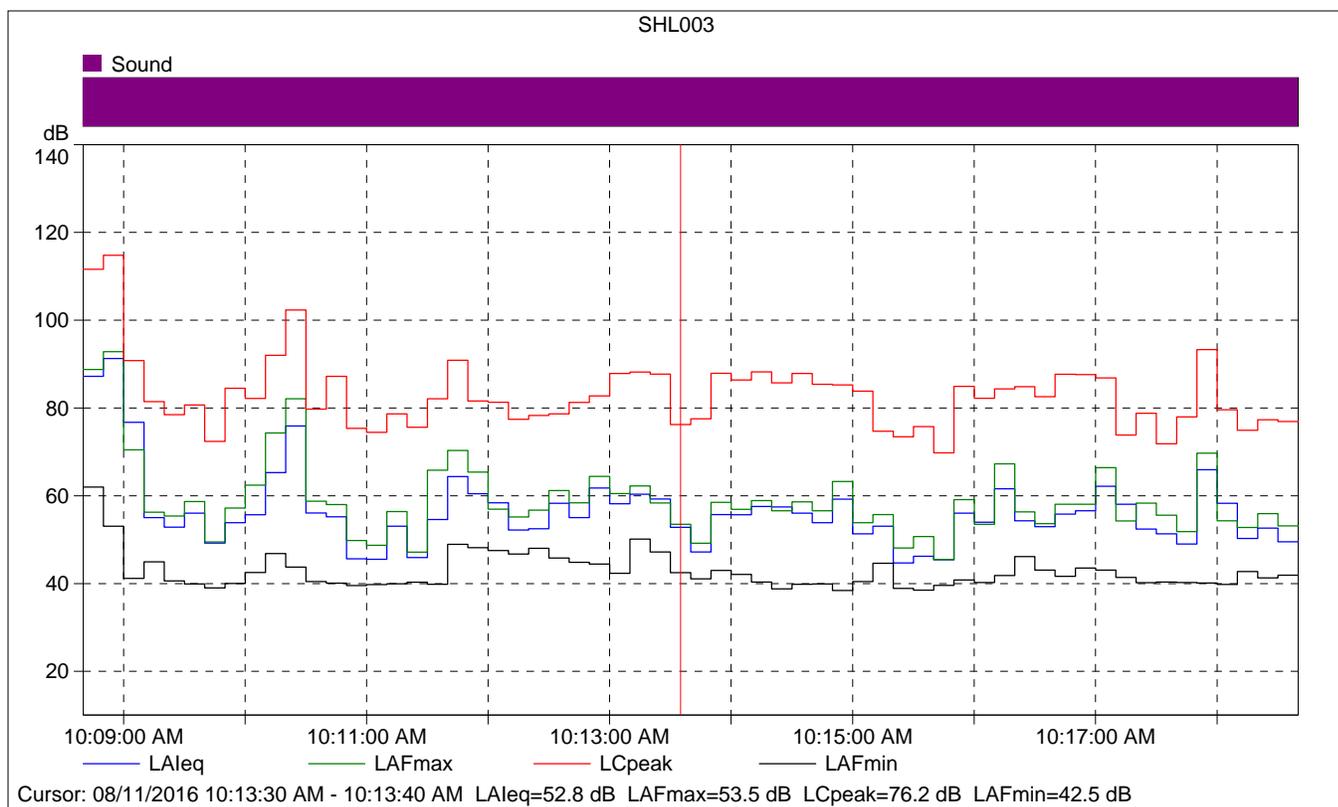
Instrument Serial Number:		2548189
Microphone Serial Number:		2543364
Input:		Top Socket
Windscreen Correction:		None
Sound Field Correction:		Free-field

Calibration Time:		08/10/2016 15:32:58
Calibration Type:		External reference
Sensitivity:		64.6921619772911 mV/Pa

SHL003

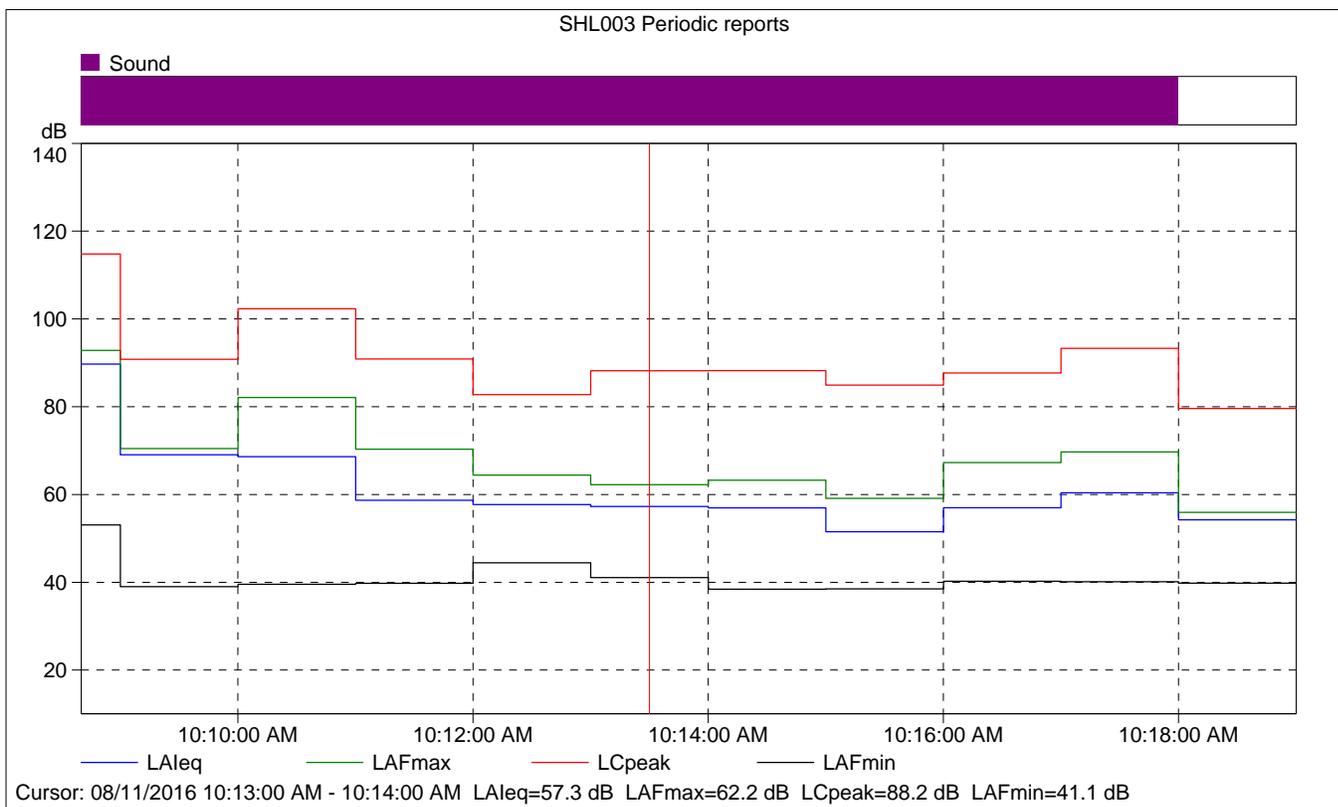
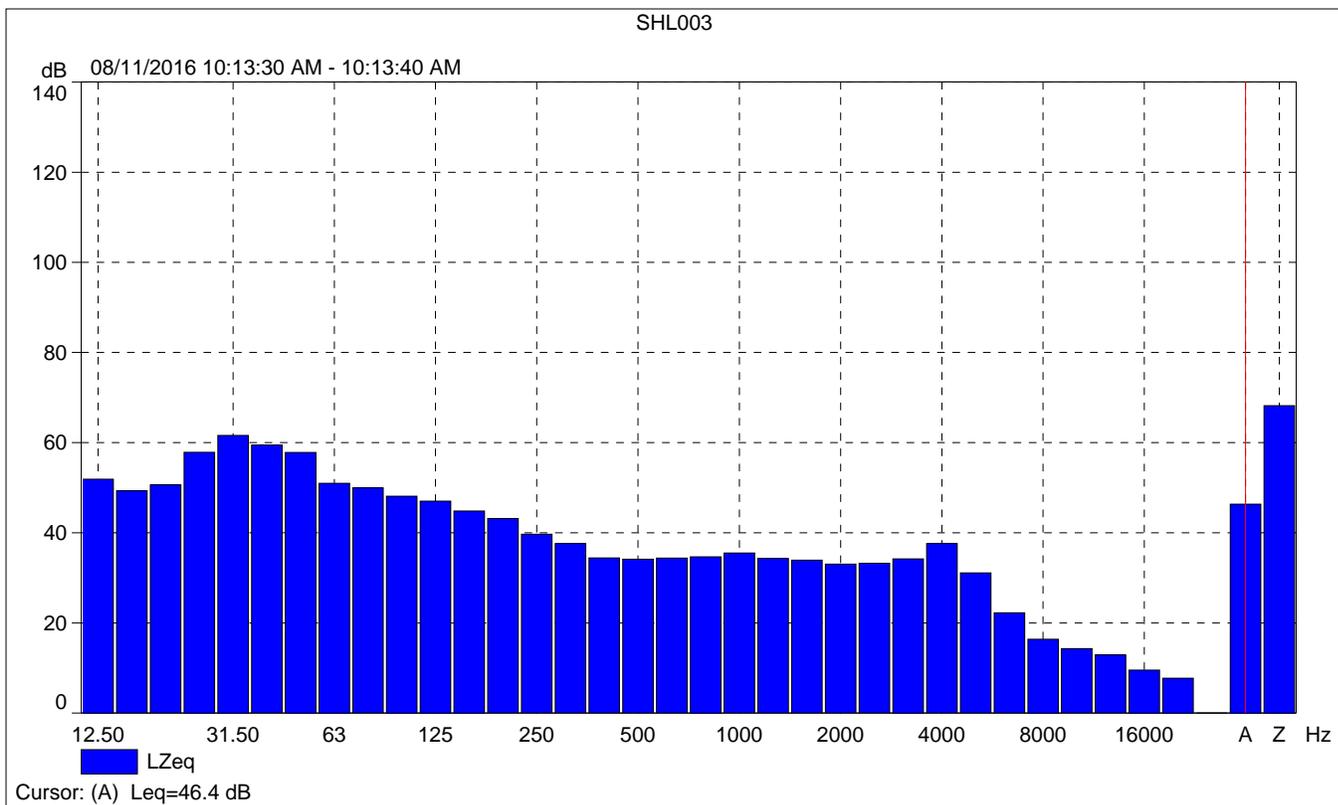
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	65.3	92.8	38.4
Time	10:08:40 AM	10:18:40 AM	0:10:00				
Date	08/11/2016	08/11/2016					





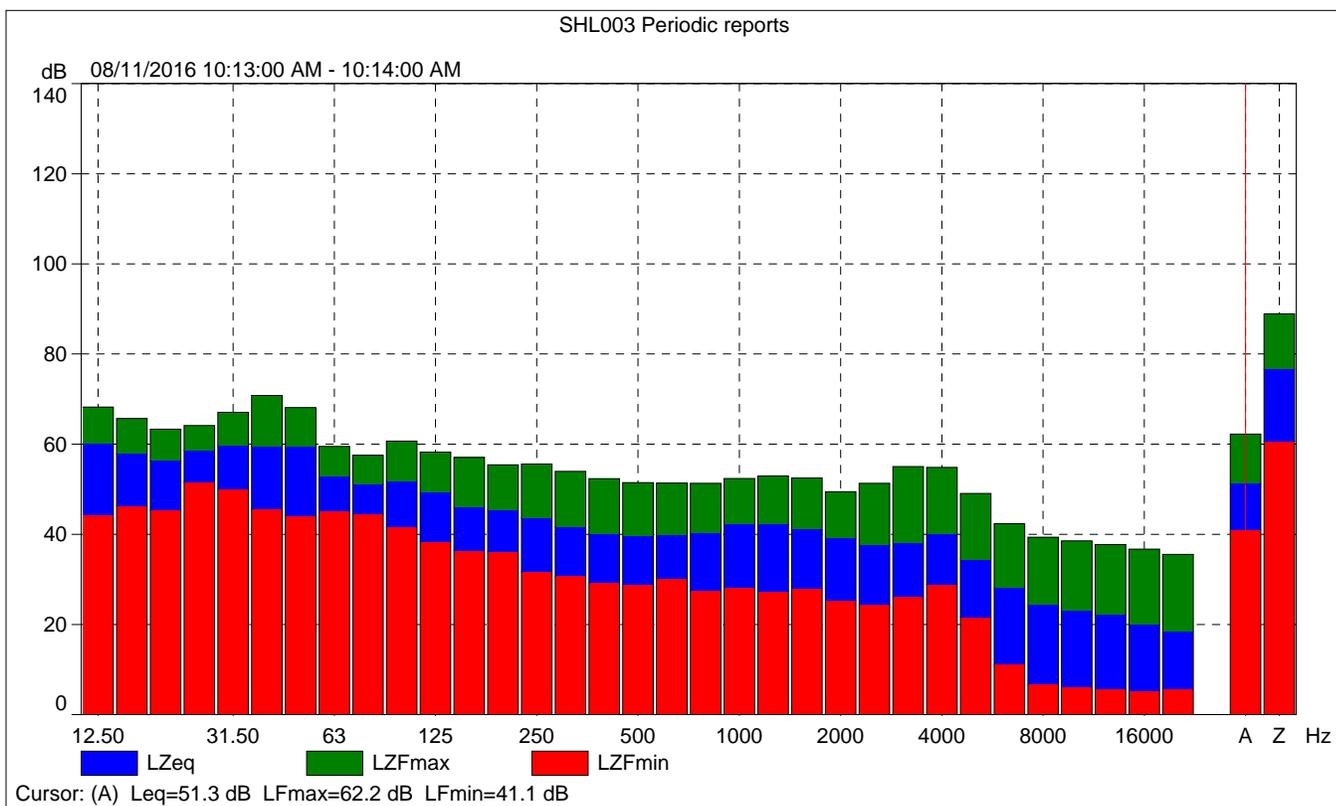
SHL003

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			52.8	53.5	42.5
Time	10:13:30 AM	0:00:10			
Date	08/11/2016				



SHL003 Periodic reports

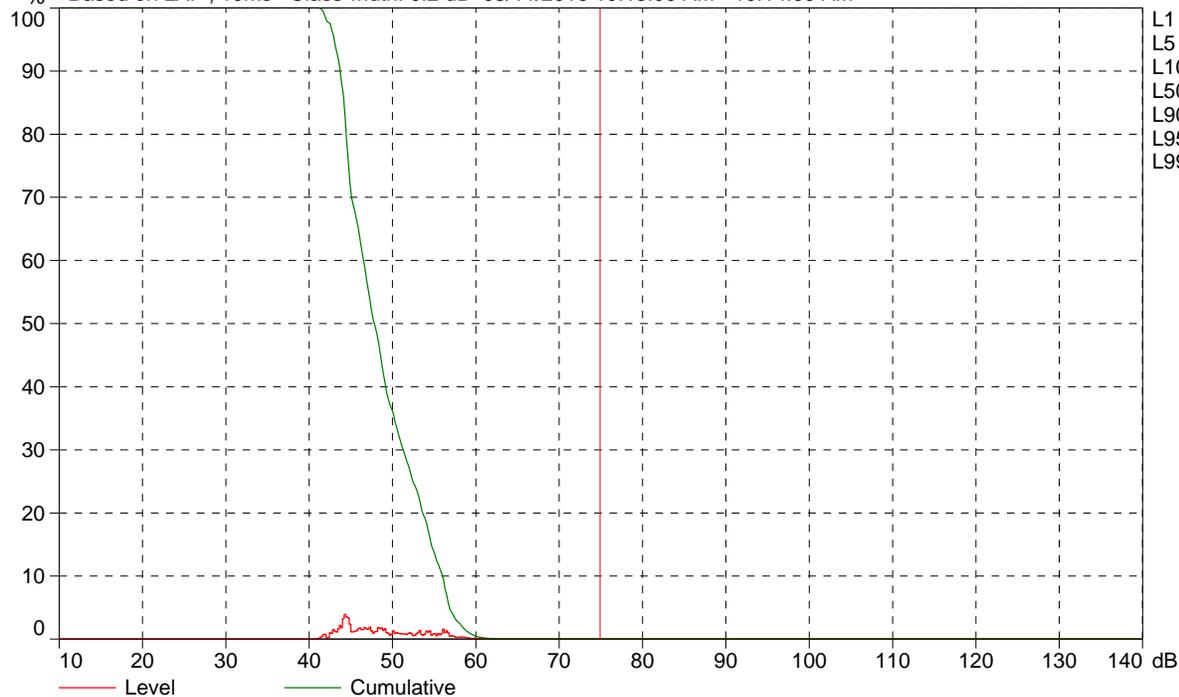
	Start time	Elapsed time	Overload [%]	LALeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	57.3	62.2	41.1
Time	10:13:00 AM	0:01:00				
Date	08/11/2016					





SHL003 Periodic reports

% Based on LAF, 10ms Class width: 0.2 dB 08/11/2016 10:13:00 AM - 10:14:00 AM



- L1 = 59.1 dB
- L5 = 56.7 dB
- L10 = 55.9 dB
- L50 = 47.7 dB
- L90 = 43.6 dB
- L95 = 42.9 dB
- L99 = 41.7 dB

Cursor: [74.8 ; 75.0] dB Level: 0.0% Cumulative: 0.0%

Site Number: 2			
Recorded By: Ryan Chiene			
Job Number: 153095			
Date: 8/11/2016			
Time: 10:29 a.m.			
Location: Along Vistamonte Avenue, near residential neighborhood.			
Source of Peak Noise: Cars driving on Vistamonte Avenue, utility equipment, plane flying overhead, birds.			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
67.1	35.0	95.4	93.9

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	11/18/2014	
	Microphone	Brüel & Kjær	4189	2543364	11/18/2014	
	Preamp	Brüel & Kjær	ZC 0032	4265	11/18/2014	
	Calibrator	Brüel & Kjær	4231	2545667	11/18/2014	
Weather Data						
Est.	Duration: 10 minutes			Sky: Sunny		
	Note: dBA Offset = -0.02			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	1.4		75.0		29.97	

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.4
Start Time:		08/11/2016 10:29:31
End Time:		08/11/2016 10:39:31
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		138.71

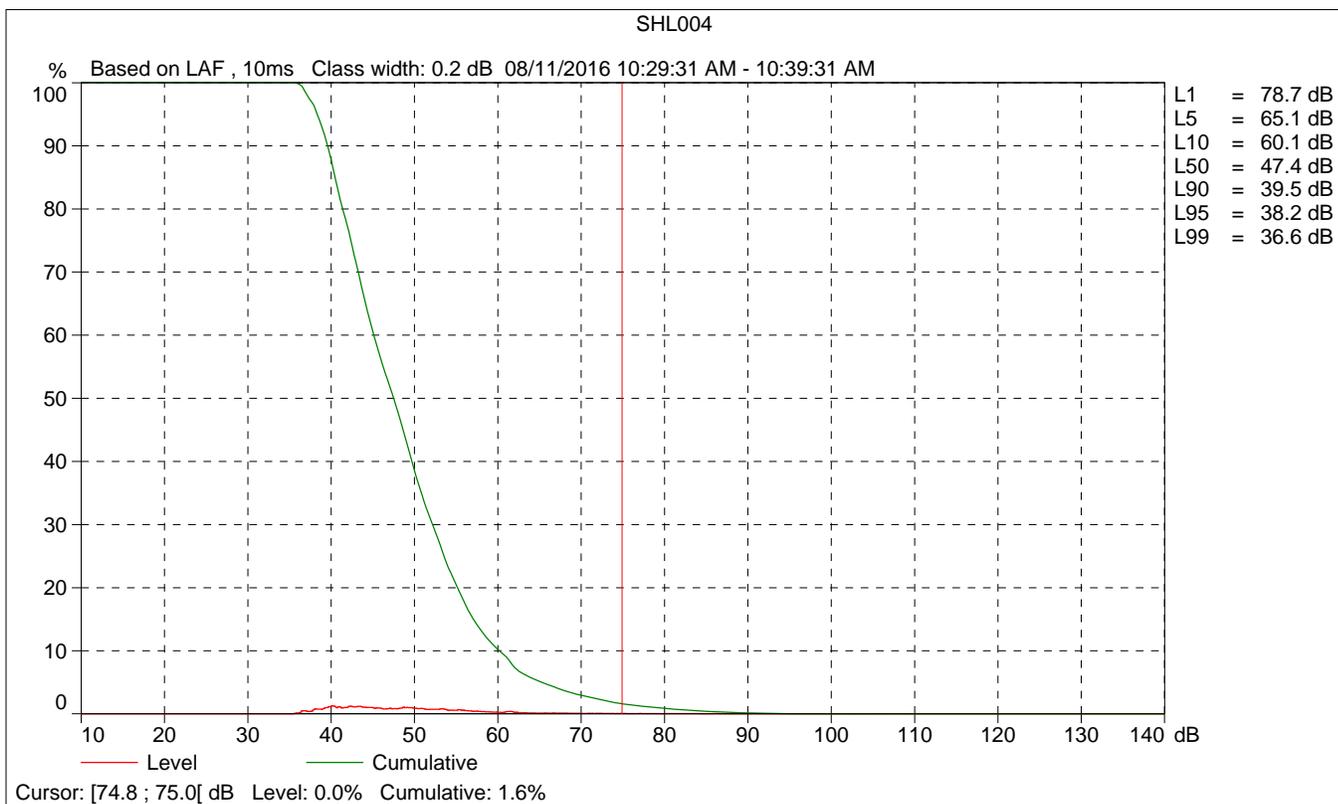
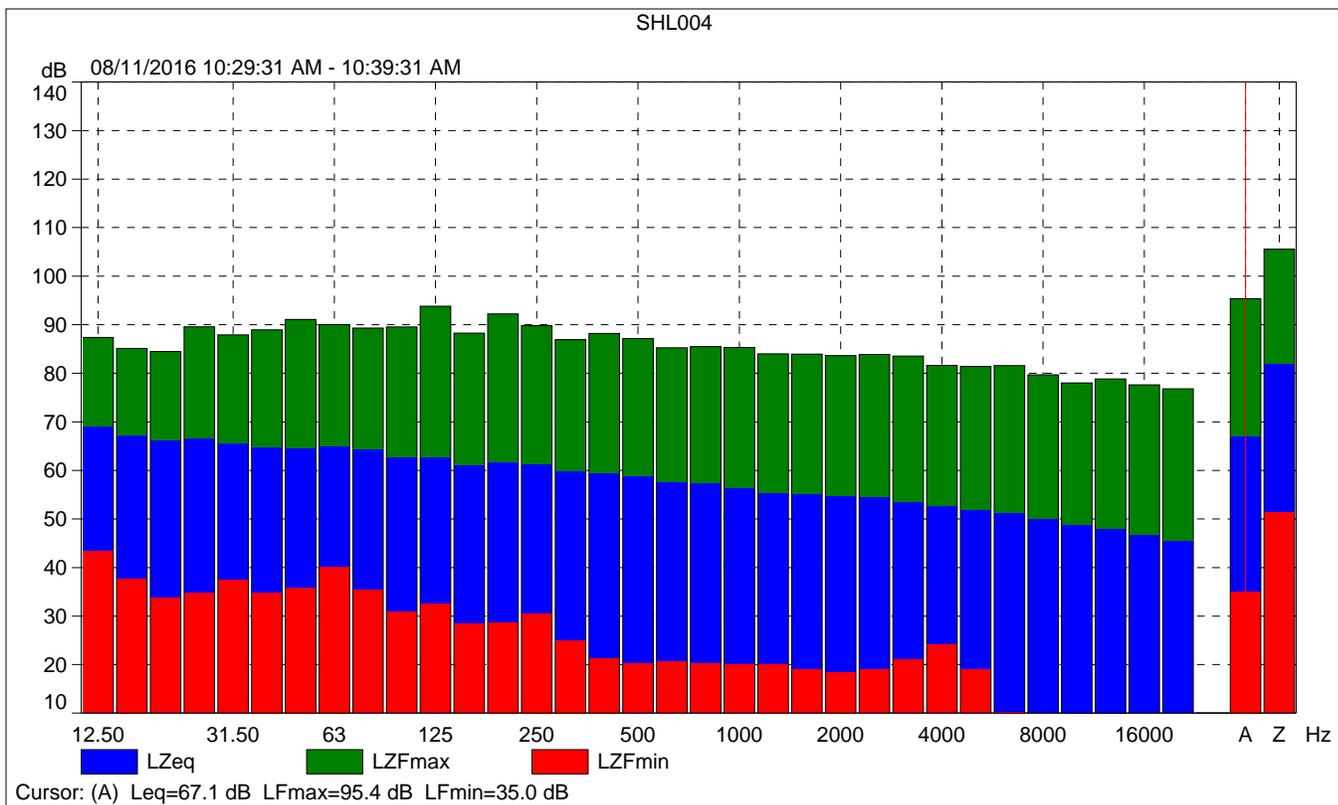
	Time	Frequency
Broadband (excl. Peak):	FSI	AZ
Broadband Peak:		C
Spectrum:	FS	Z

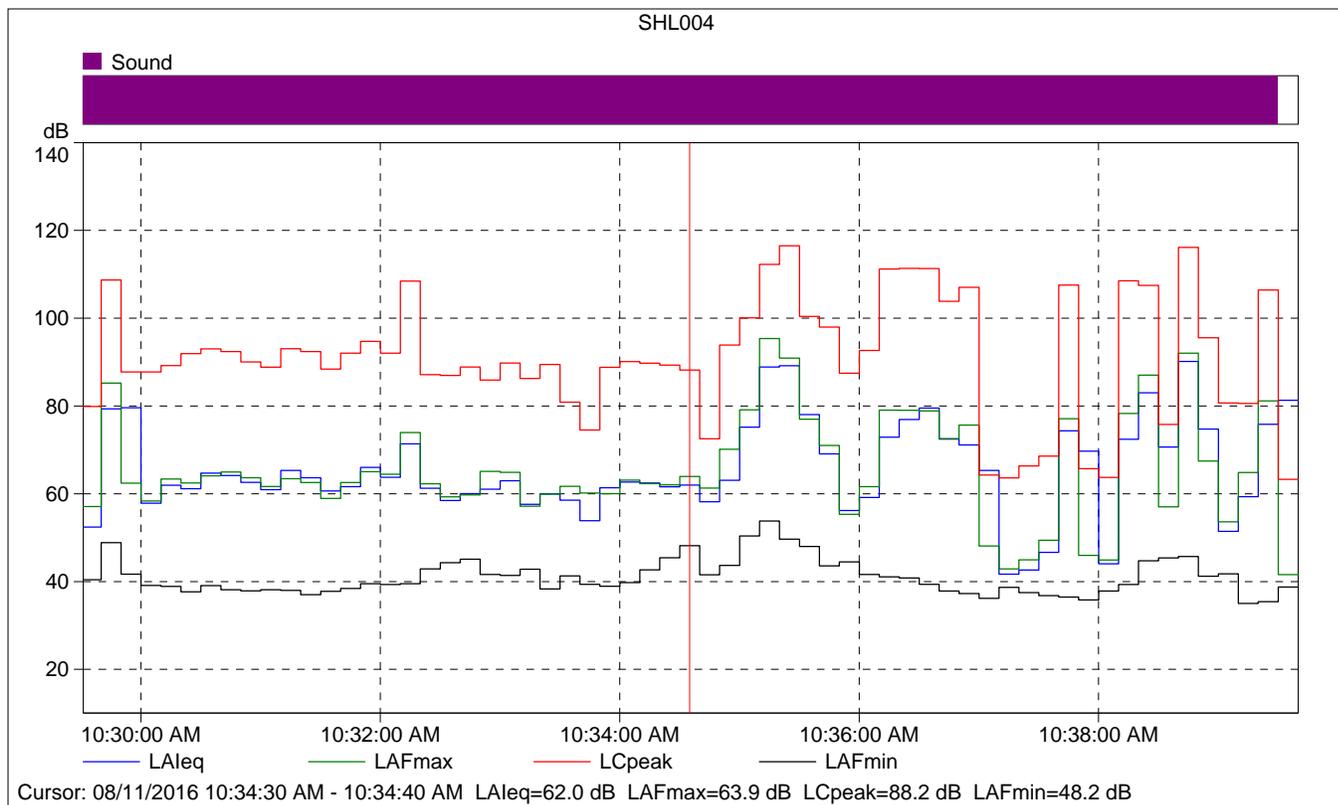
Instrument Serial Number:		2548189
Microphone Serial Number:		2543364
Input:		Top Socket
Windscreen Correction:		None
Sound Field Correction:		Free-field

Calibration Time:		08/10/2016 15:32:58
Calibration Type:		External reference
Sensitivity:		64.6921619772911 mV/Pa

SHL004

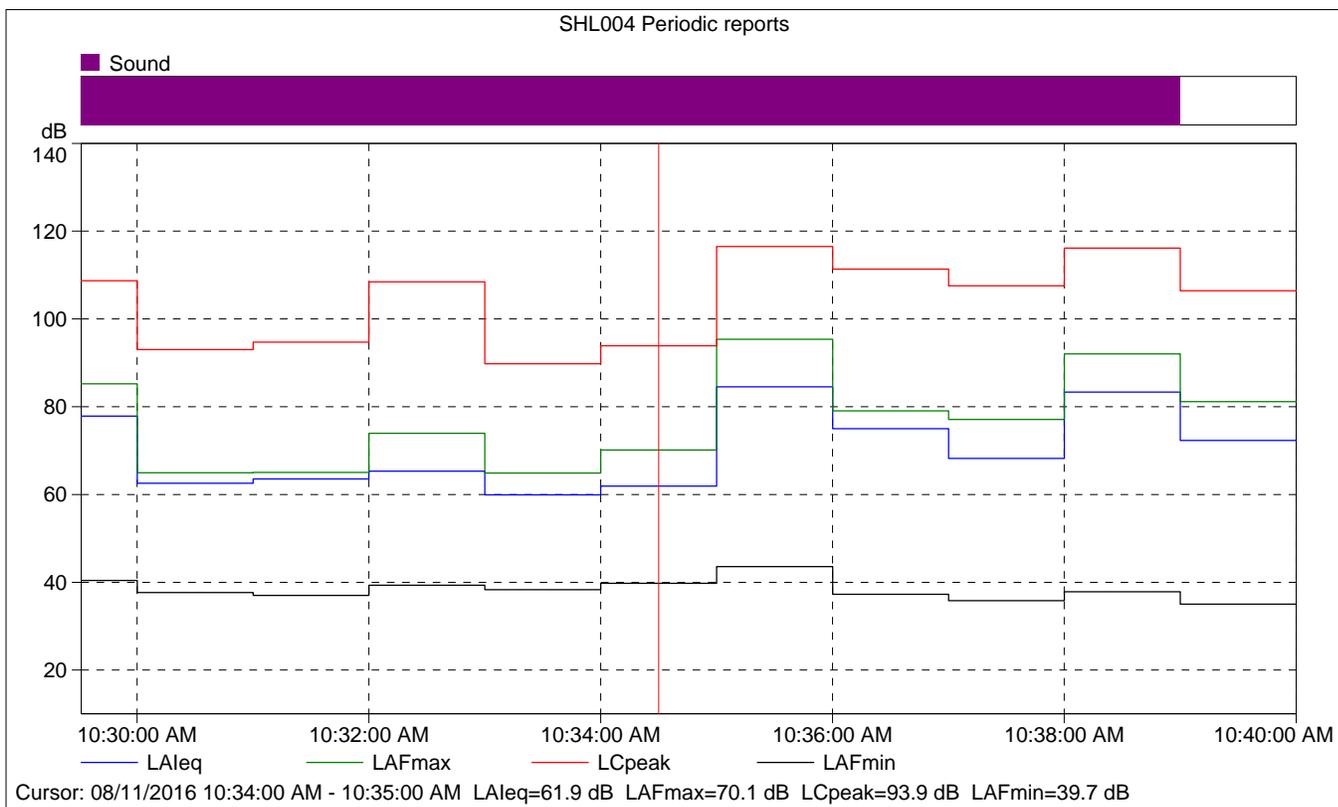
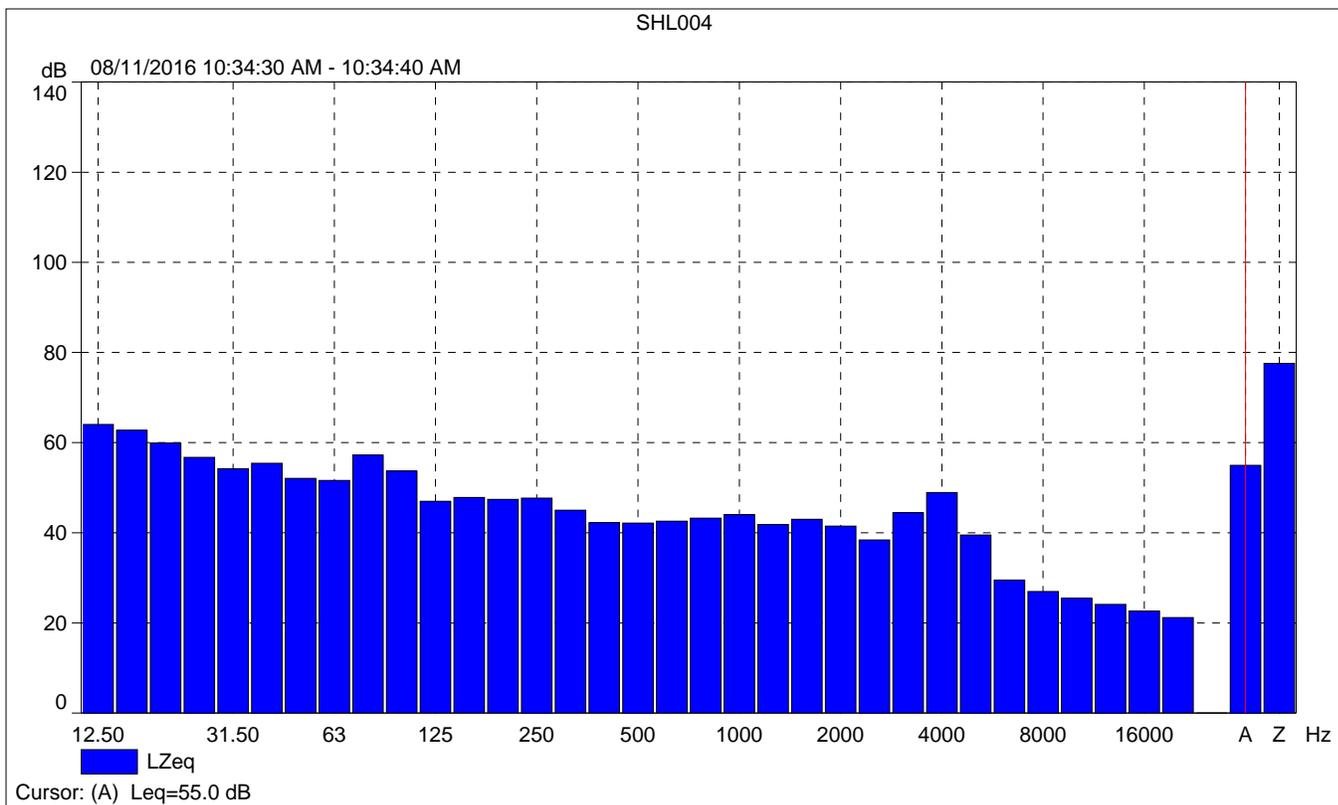
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	67.1	95.4	35.0
Time	10:29:31 AM	10:39:31 AM	0:10:00				
Date	08/11/2016	08/11/2016					





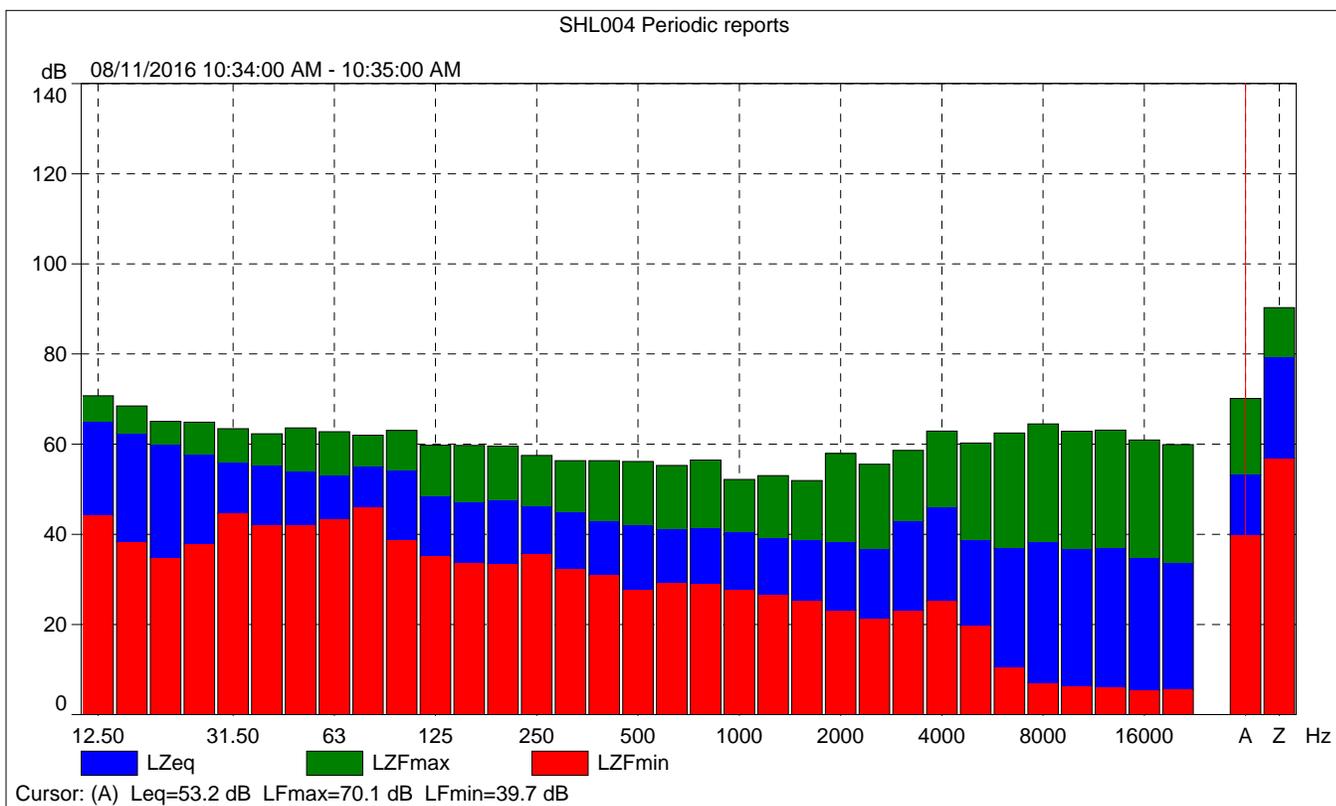
SHL004

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			62.0	63.9	48.2
Time	10:34:30 AM	0:00:10			
Date	08/11/2016				



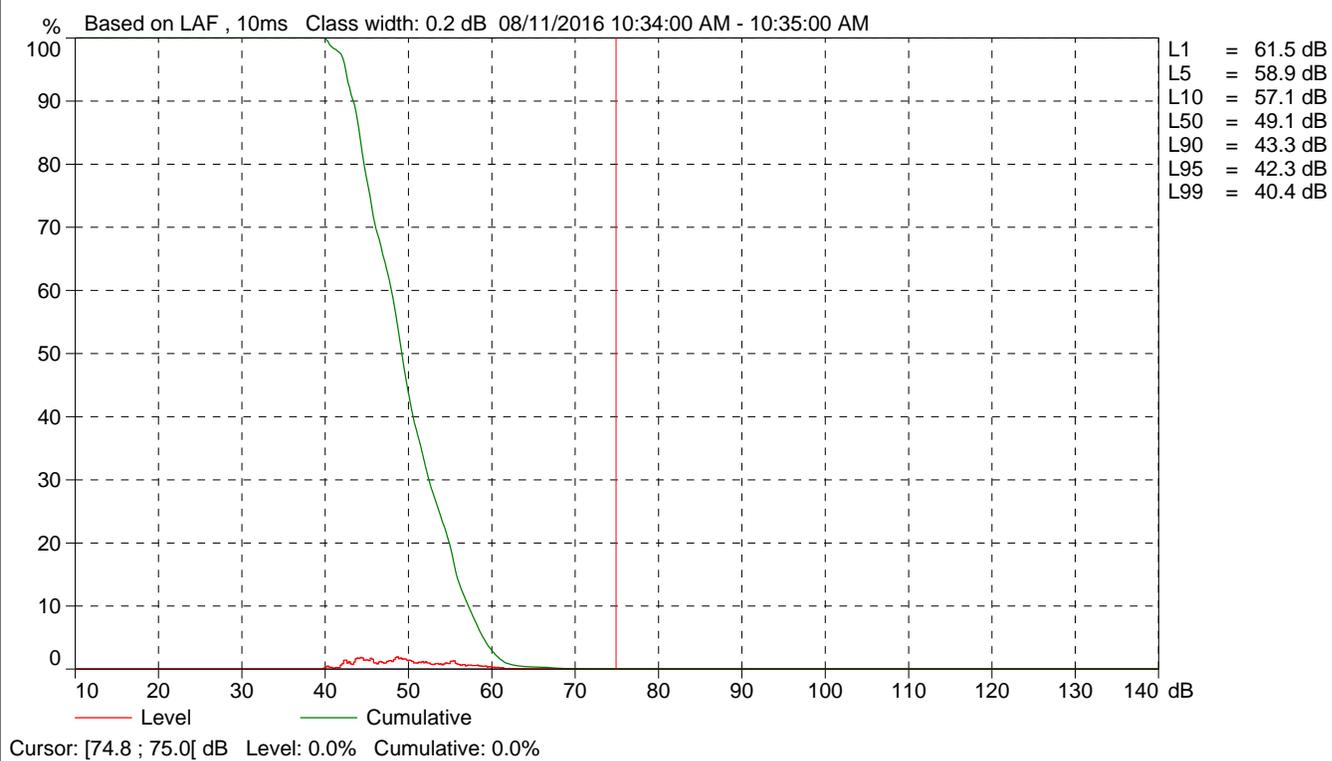
SHL004 Periodic reports

	Start time	Elapsed time	Overload [%]	LAFeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	61.9	70.1	39.7
Time	10:34:00 AM	0:01:00				
Date	08/11/2016					





SHL004 Periodic reports



Site Number: 3			
Recorded By: Ryan Chiene			
Job Number: 153095			
Date: 8/11/2016			
Time: 10:45 a.m.			
Location: At cul-de-sac on Timber Creek Lane, in residential neighborhood.			
Source of Peak Noise: Birds chirping, cars pulling into driveways.			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
65.4	31.6	94.8	81.3

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	11/18/2014	
	Microphone	Brüel & Kjær	4189	2543364	11/18/2014	
	Preamp	Brüel & Kjær	ZC 0032	4265	11/18/2014	
	Calibrator	Brüel & Kjær	4231	2545667	11/18/2014	
Weather Data						
Est.	Duration: 10 minutes			Sky: Sunny		
	Note: dBA Offset = -0.02			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	1.0		83.0		29.97	

Photo of Measurement Location





2250

Instrument:		2250
Application:		BZ7225 Version 4.4
Start Time:		08/11/2016 10:45:02
End Time:		08/11/2016 10:55:02
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		138.71

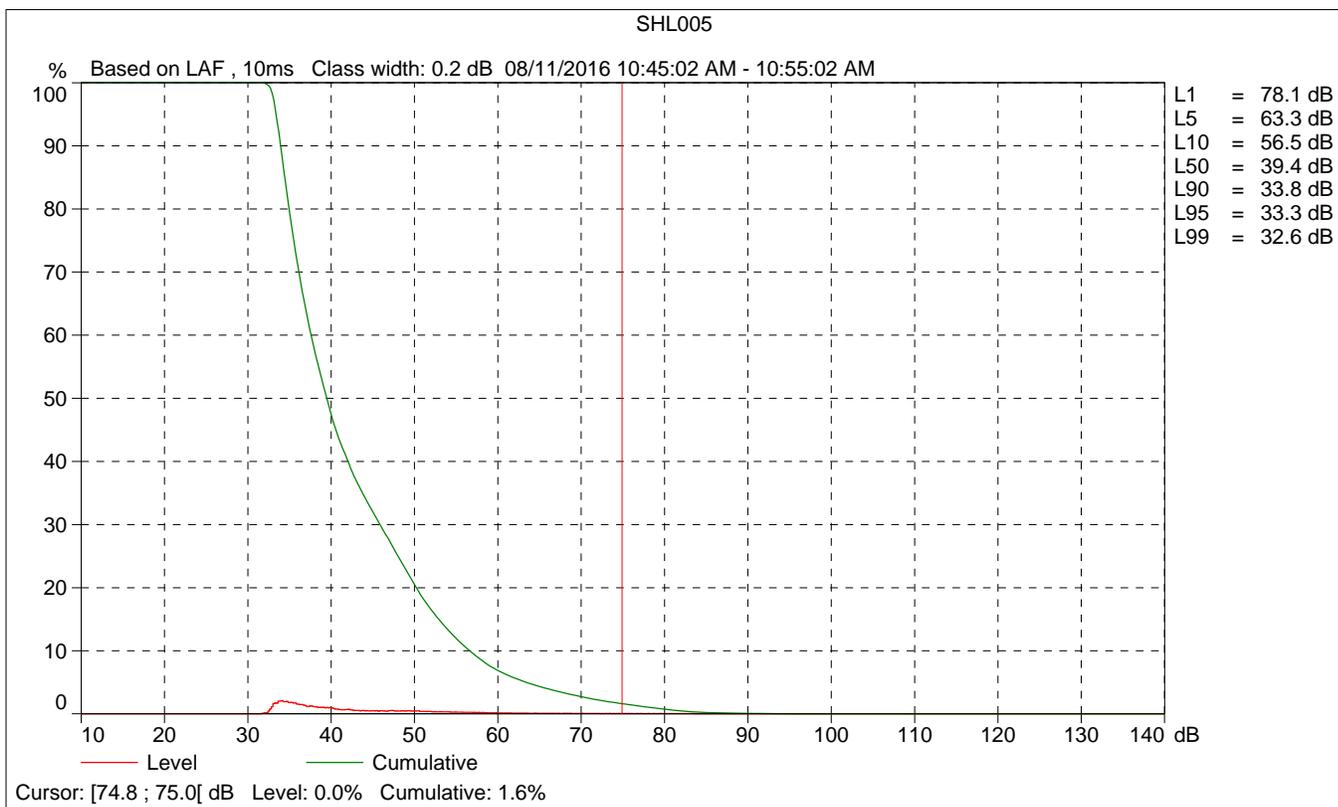
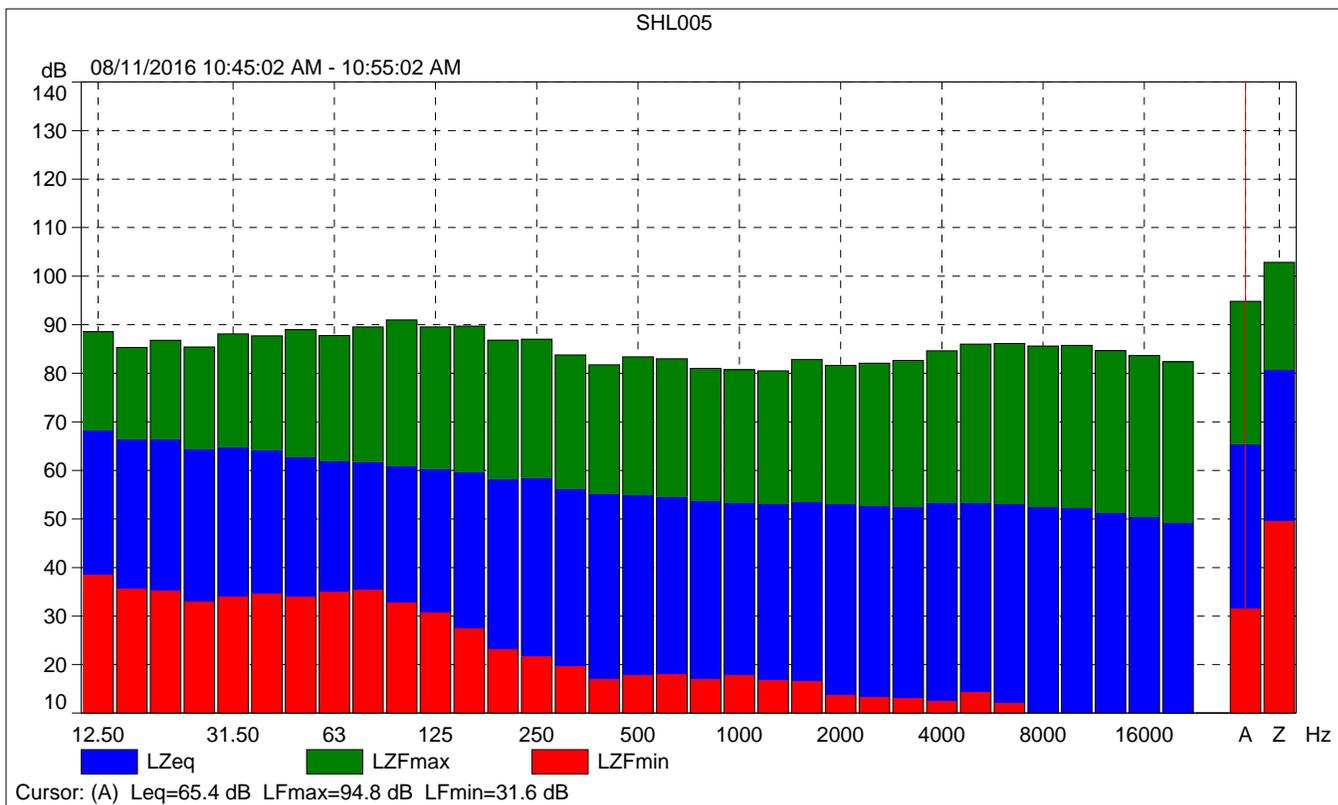
	Time	Frequency
Broadband (excl. Peak):	FSI	AZ
Broadband Peak:		C
Spectrum:	FS	Z

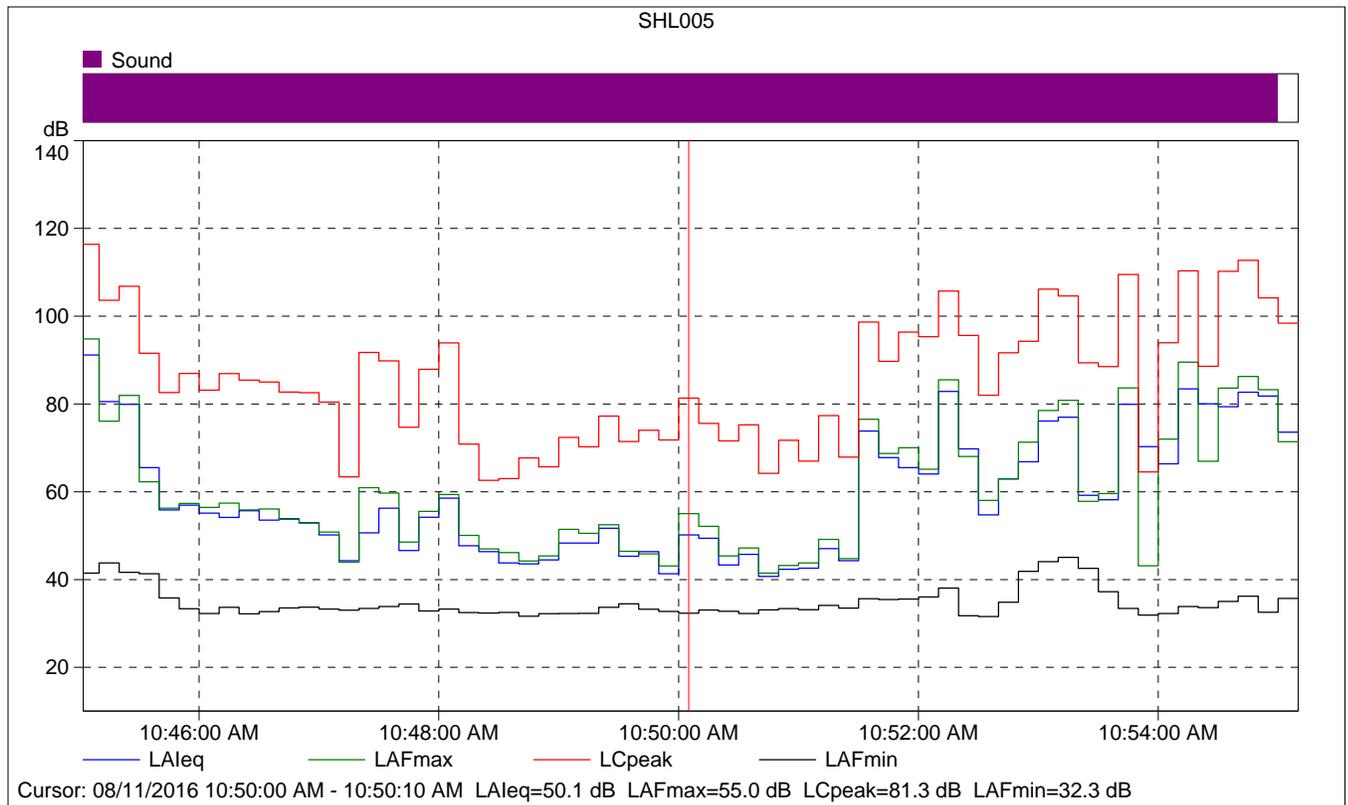
Instrument Serial Number:		2548189
Microphone Serial Number:		2543364
Input:		Top Socket
Windscreen Correction:		None
Sound Field Correction:		Free-field

Calibration Time:		08/10/2016 15:32:58
Calibration Type:		External reference
Sensitivity:		64.6921619772911 mV/Pa

SHL005

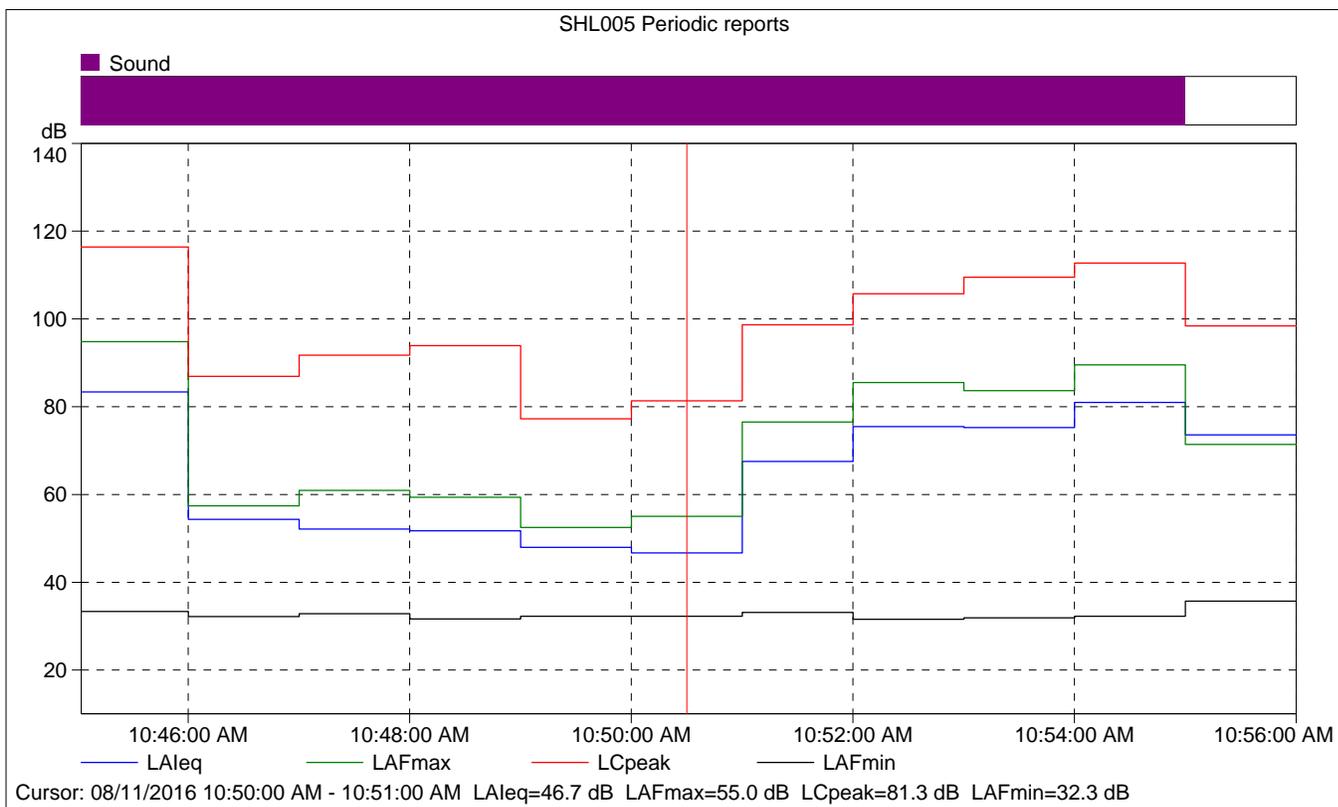
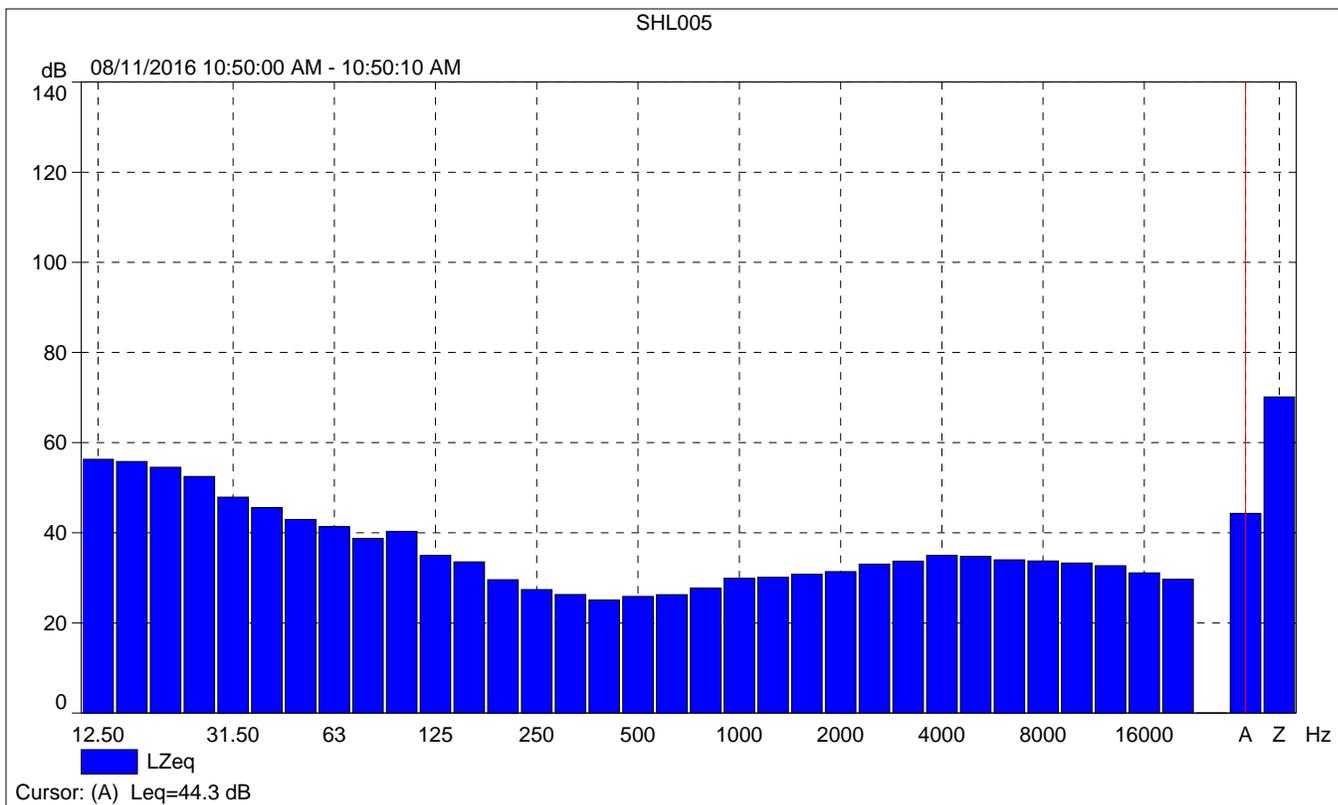
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	65.4	94.8	31.6
Time	10:45:02 AM	10:55:02 AM	0:10:00				
Date	08/11/2016	08/11/2016					





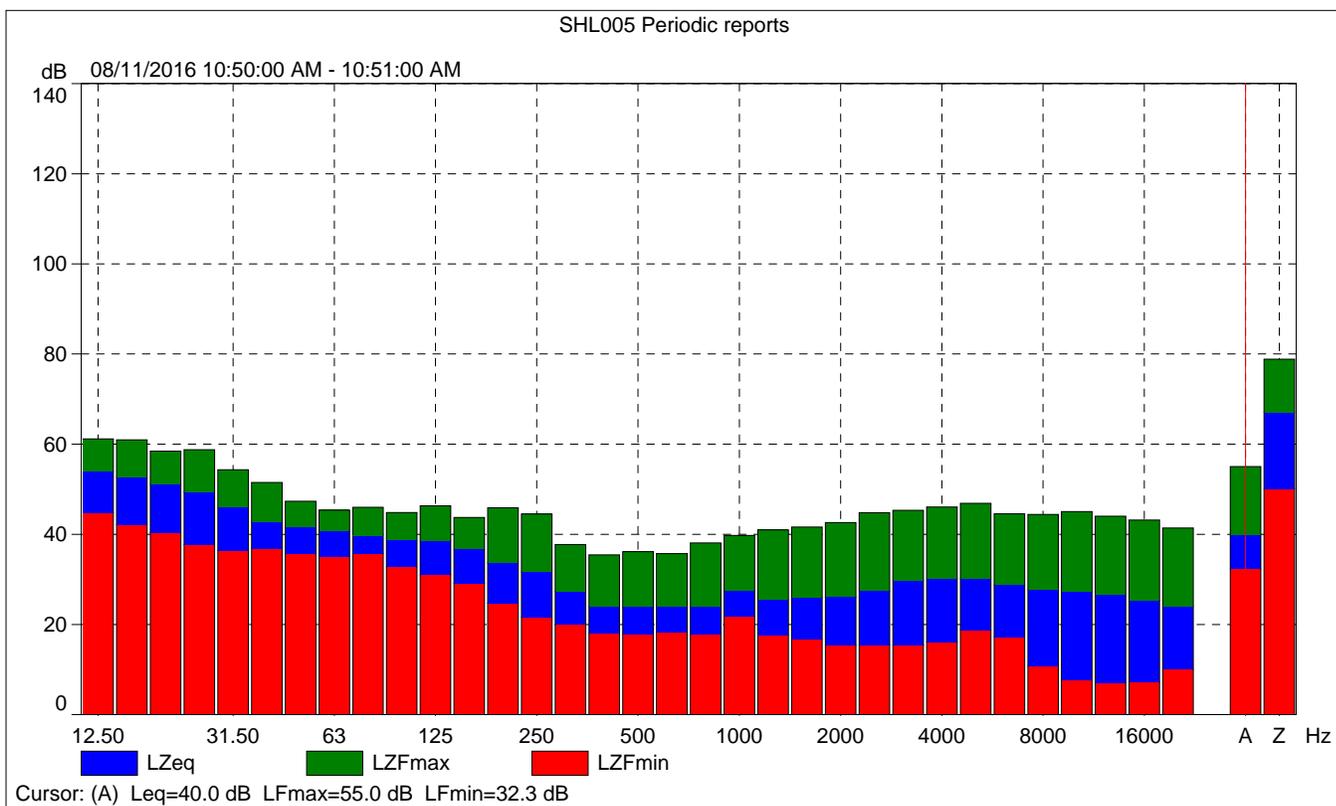
SHL005

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			50.1	55.0	32.3
Time	10:50:00 AM	0:00:10			
Date	08/11/2016				



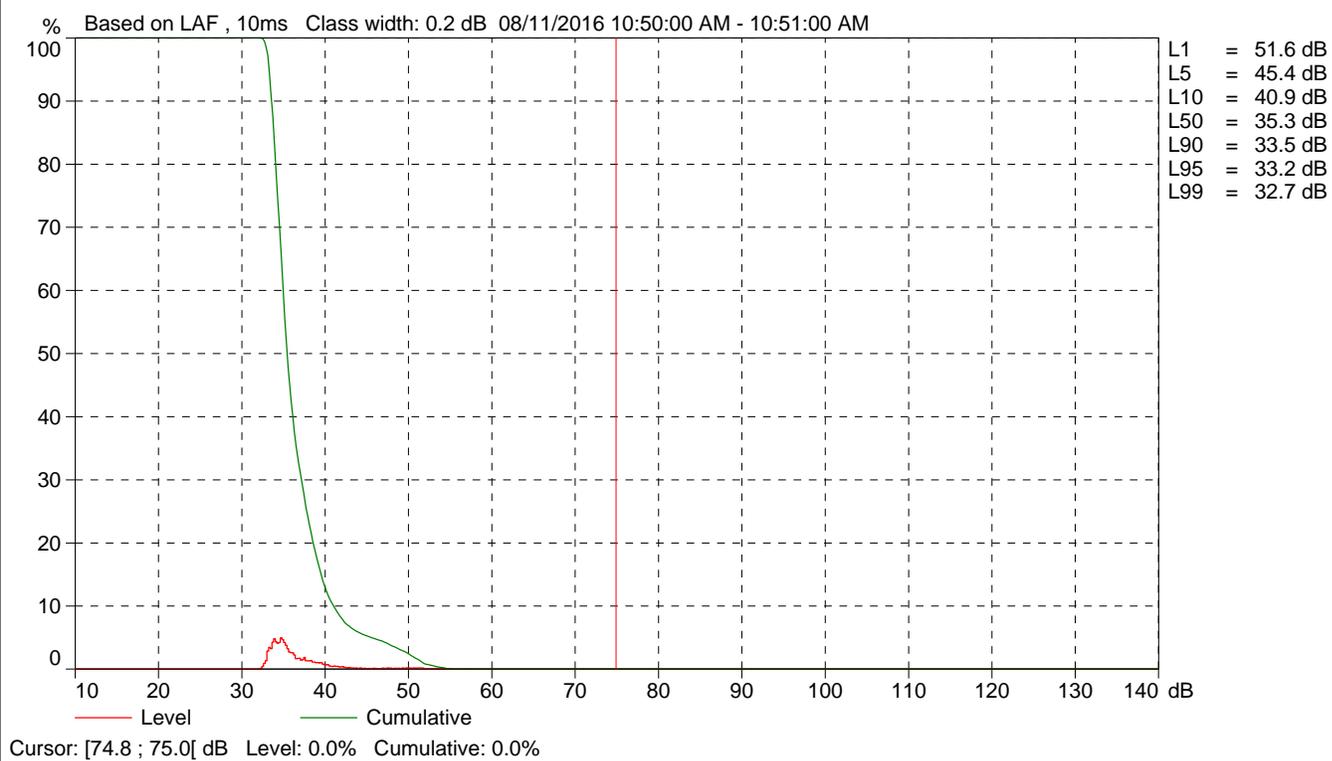
SHL005 Periodic reports

	Start time	Elapsed time	Overload [%]	LALeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	46.7	55.0	32.3
Time	10:50:00 AM	0:01:00				
Date	08/11/2016					





SHL005 Periodic reports



Site Number: 4			
Recorded By: Ryan Chiene			
Job Number: 153095			
Date: 8/11/2016			
Time: 11:01 a.m.			
Location: Adjacent to San Pasqual Union Elementary School, along Rockwood Road.			
Source of Peak Noise: Cars driving on Rockwood Road, construction off-site in the distance, plane flying overhead, AC unit on roof of school, unknown beeping noise.			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
63.6	36.5	87.1	91.0

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	11/18/2014	
	Microphone	Brüel & Kjær	4189	2543364	11/18/2014	
	Preamp	Brüel & Kjær	ZC 0032	4265	11/18/2014	
	Calibrator	Brüel & Kjær	4231	2545667	11/18/2014	
Weather Data						
Est.	Duration: 10 minutes			Sky: Sunny		
	Note: dBA Offset = -0.02			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	1.7		81.0		29.97	

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.4
Start Time:		08/11/2016 11:01:26
End Time:		08/11/2016 11:11:26
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		138.71

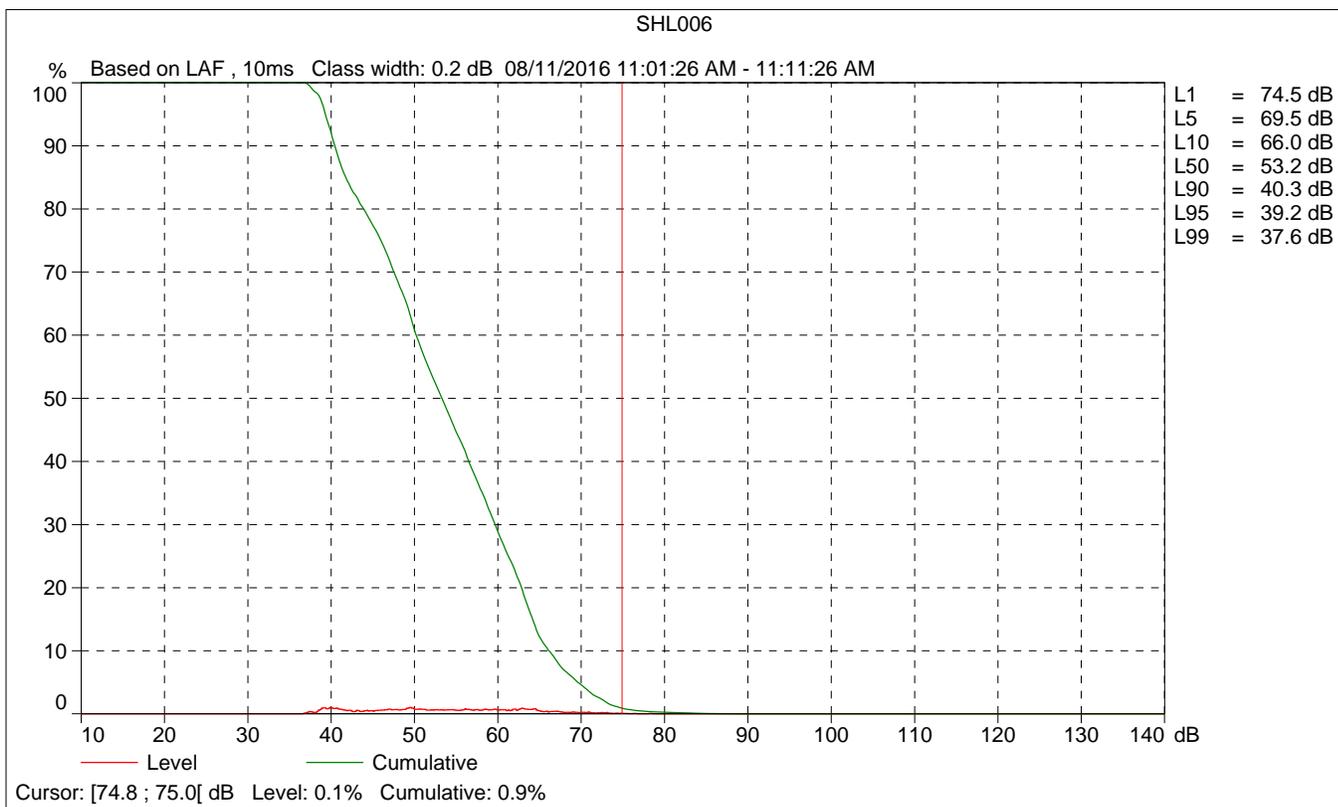
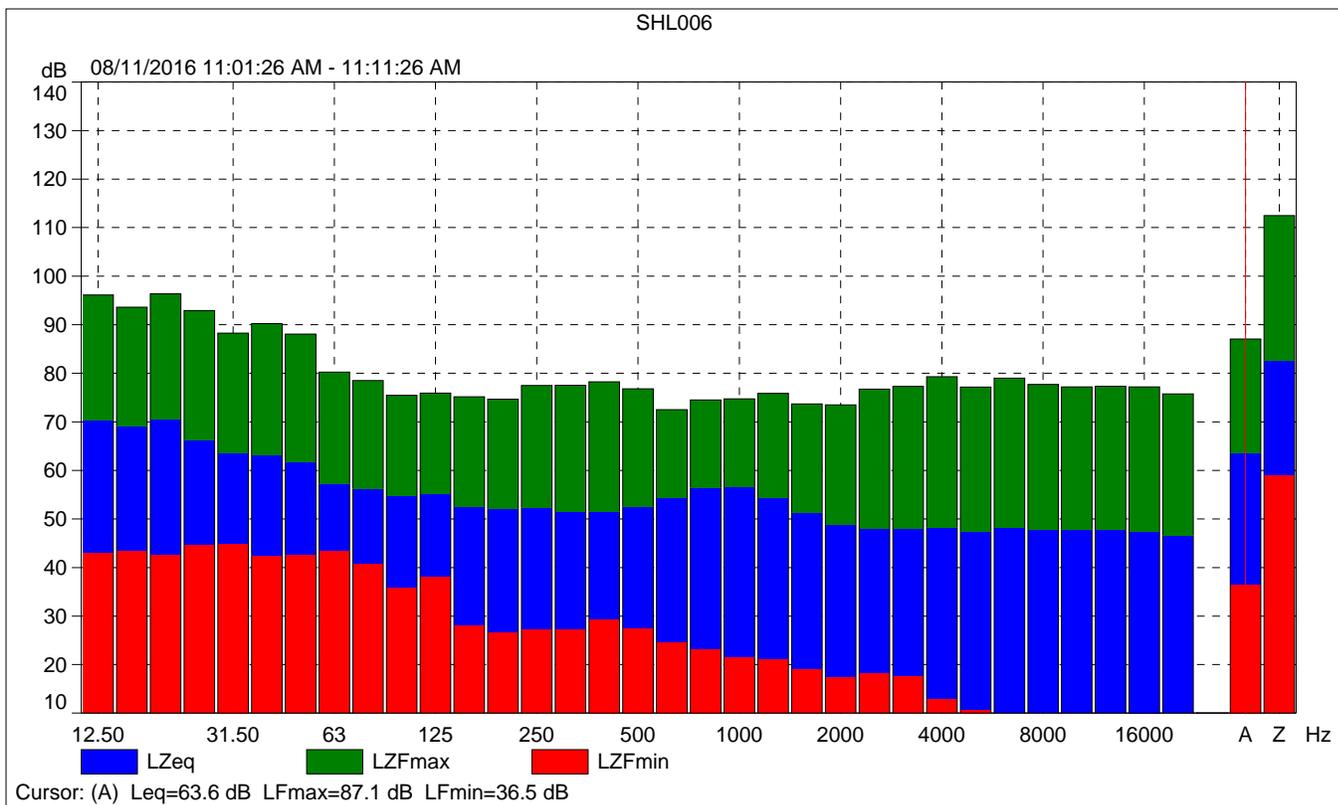
	Time	Frequency
Broadband (excl. Peak):	FSI	AZ
Broadband Peak:		C
Spectrum:	FS	Z

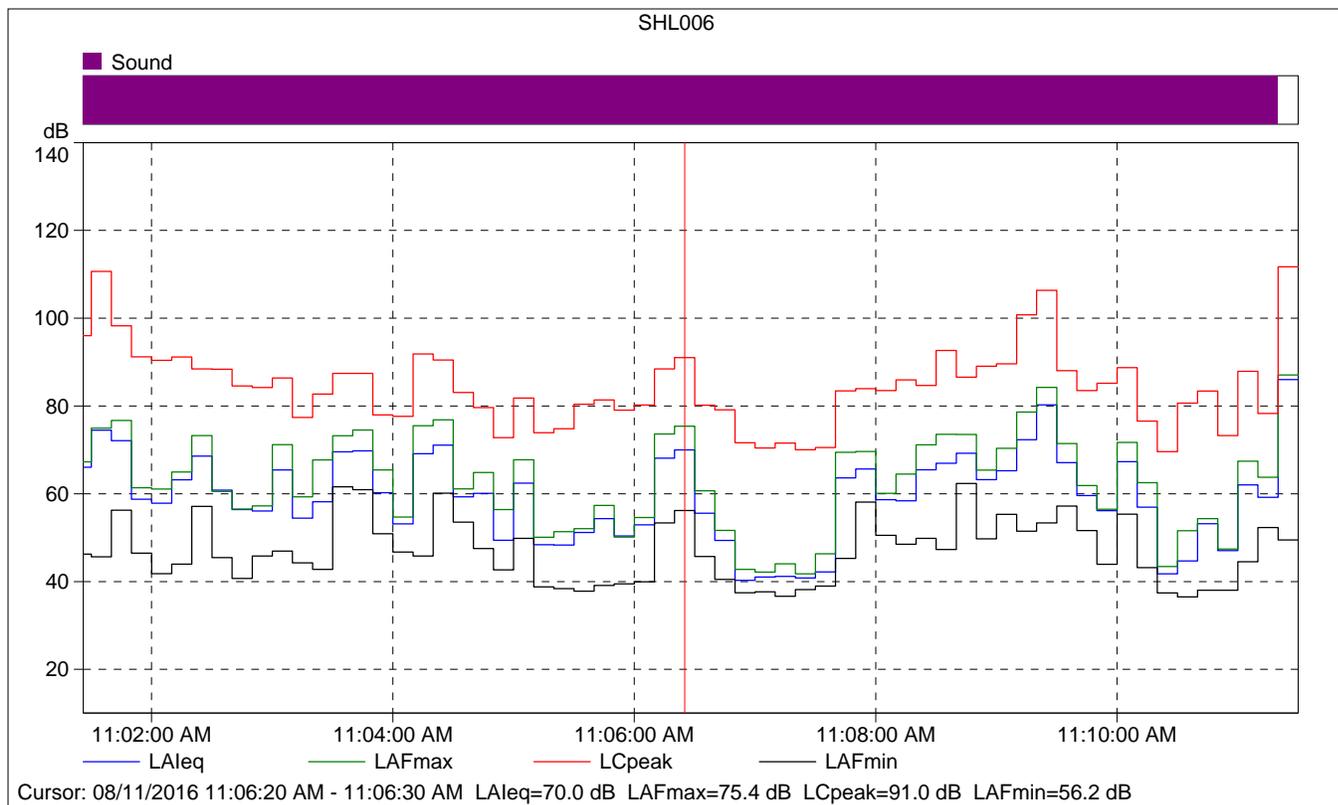
Instrument Serial Number:		2548189
Microphone Serial Number:		2543364
Input:		Top Socket
Windscreen Correction:		None
Sound Field Correction:		Free-field

Calibration Time:		08/10/2016 15:32:58
Calibration Type:		External reference
Sensitivity:		64.6921619772911 mV/Pa

SHL006

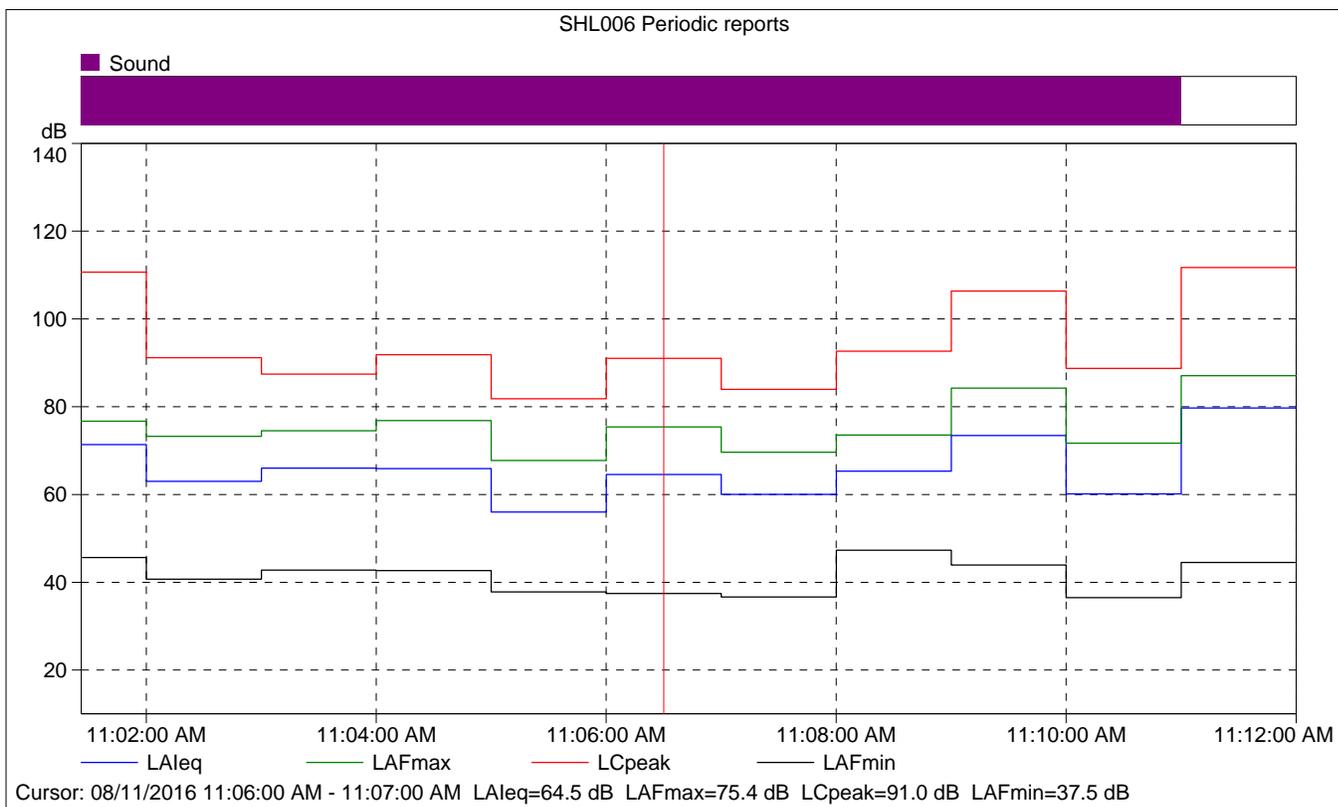
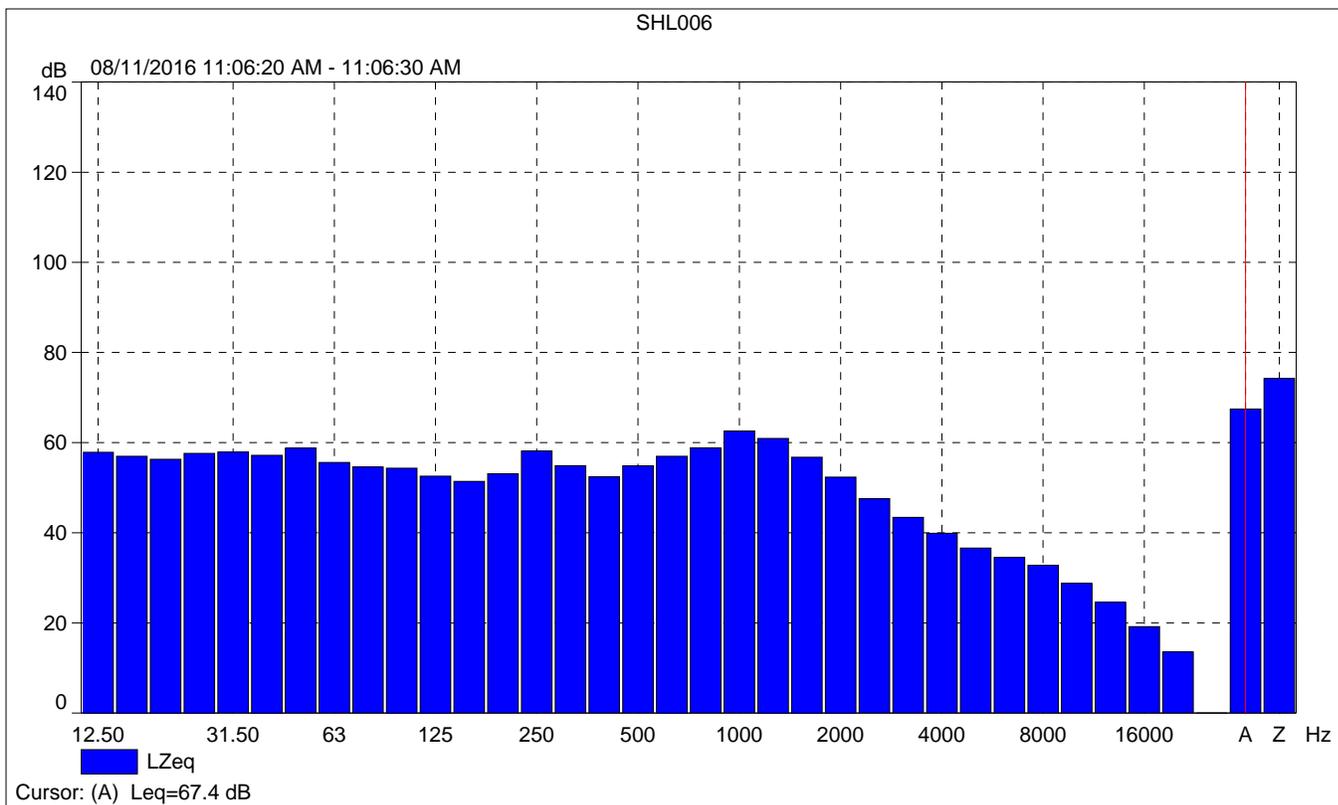
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	63.6	87.1	36.5
Time	11:01:26 AM	11:11:26 AM	0:10:00				
Date	08/11/2016	08/11/2016					





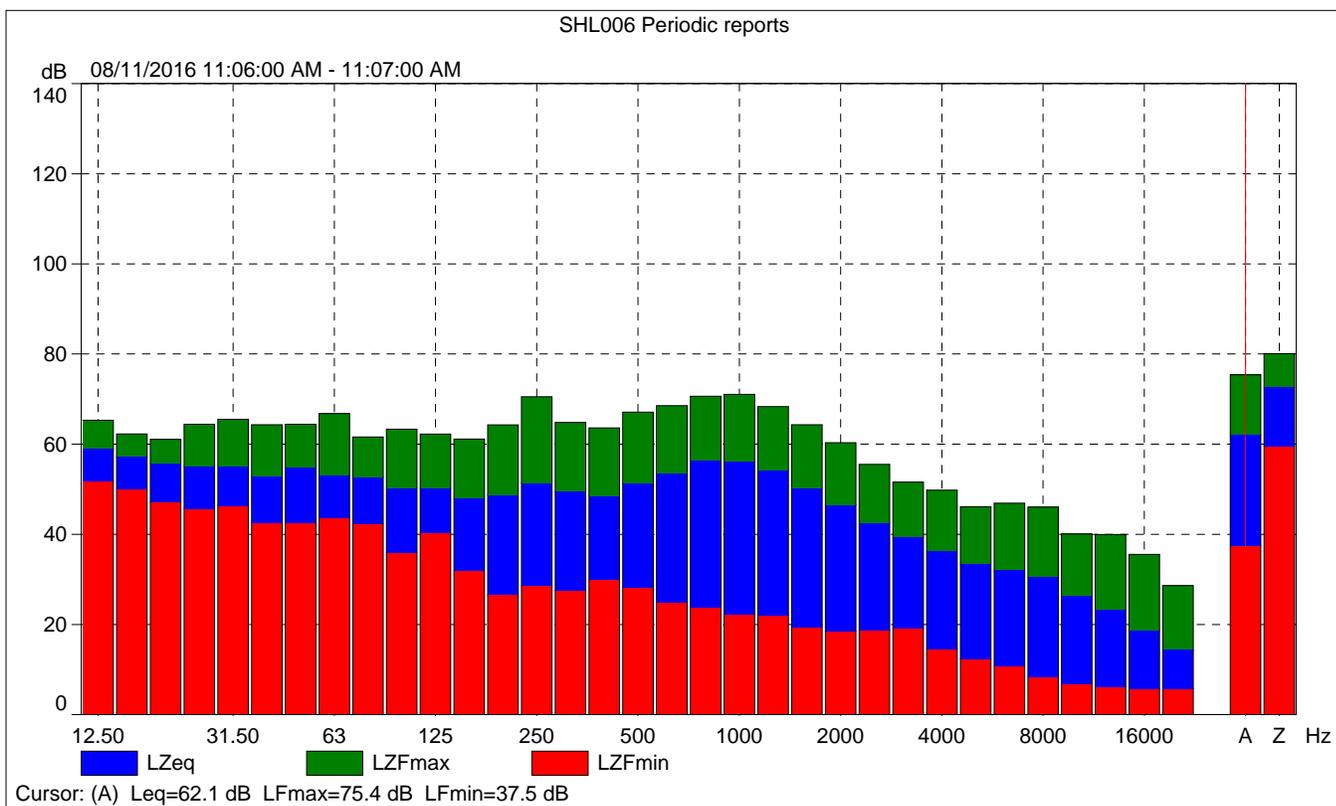
SHL006

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			70.0	75.4	56.2
Time	11:06:20 AM	0:00:10			
Date	08/11/2016				



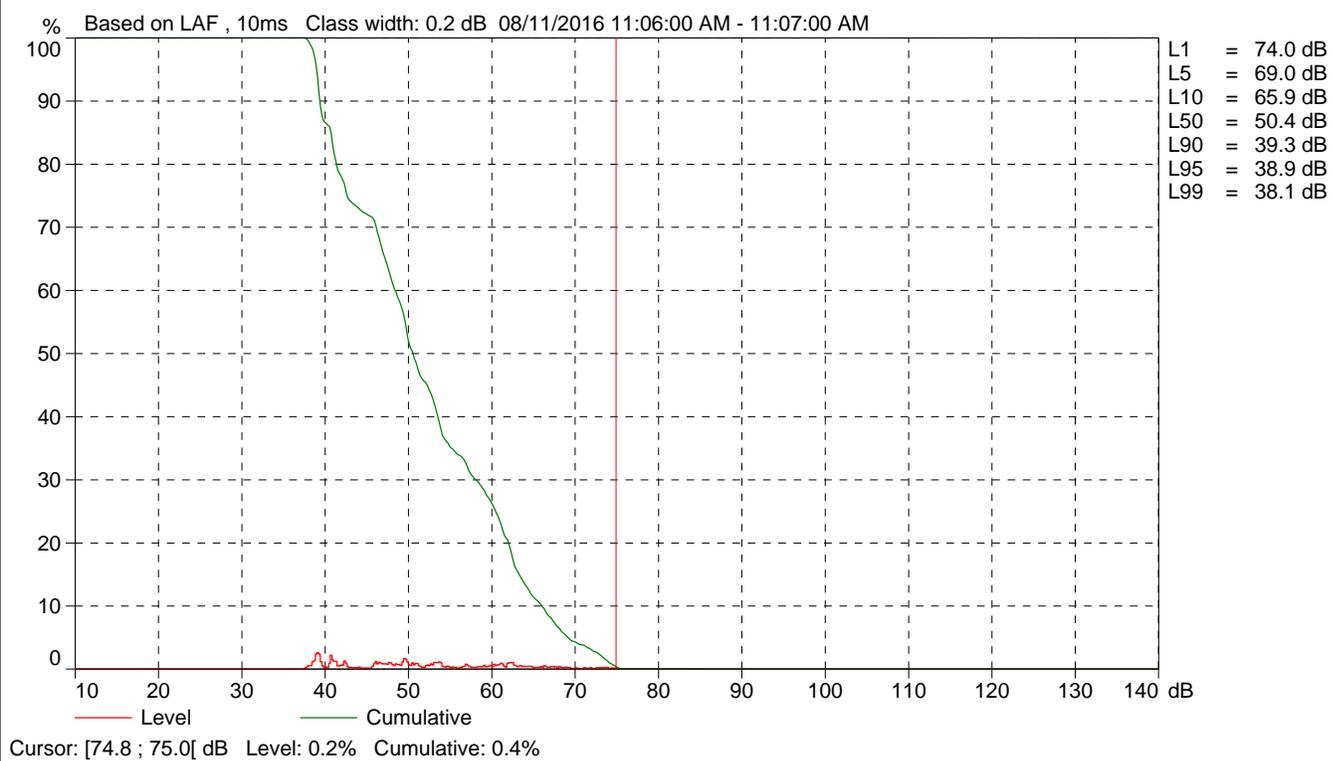
SHL006 Periodic reports

	Start time	Elapsed time	Overload [%]	LAFeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	64.5	75.4	37.5
Time	11:06:00 AM	0:01:00				
Date	08/11/2016					





SHL006 Periodic reports



Site Number: 5			
Recorded By: Ryan Chiene			
Job Number: 153095			
Date: 8/11/2016			
Time: 11:20 a.m.			
Location: Along Cloverdale Road, approximately 540 feet south of Rockwood Road.			
Source of Peak Noise: Cars driving on Cloverdale Road, plane flying overhead.			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
65.7	31.1	84.5	91.5

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	11/18/2014	
	Microphone	Brüel & Kjær	4189	2543364	11/18/2014	
	Preamp	Brüel & Kjær	ZC 0032	4265	11/18/2014	
	Calibrator	Brüel & Kjær	4231	2545667	11/18/2014	
Weather Data						
Est.	Duration: 10 minutes			Sky: Sunny		
	Note: dBA Offset = -0.02			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	1.5		82.0		29.97	

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.4
Start Time:		08/11/2016 11:20:29
End Time:		08/11/2016 11:30:29
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		138.71

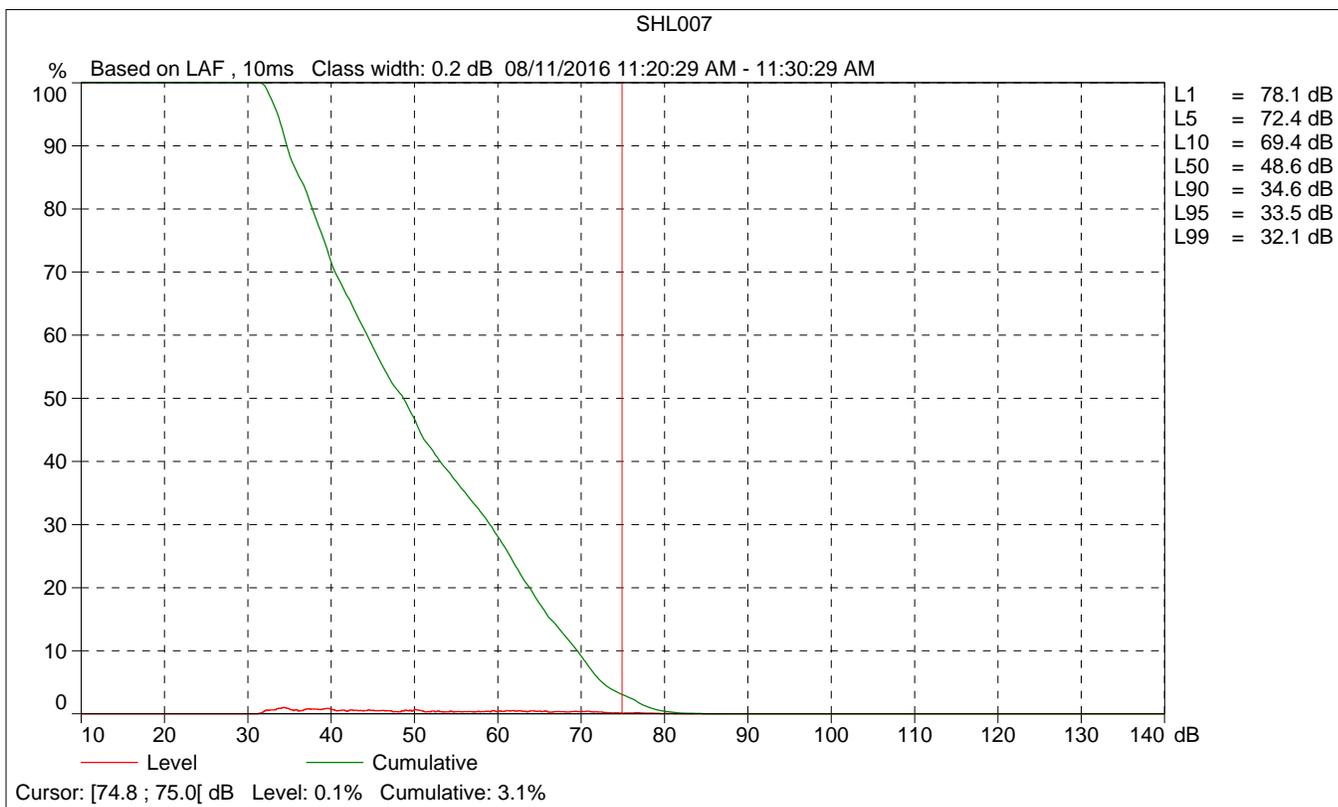
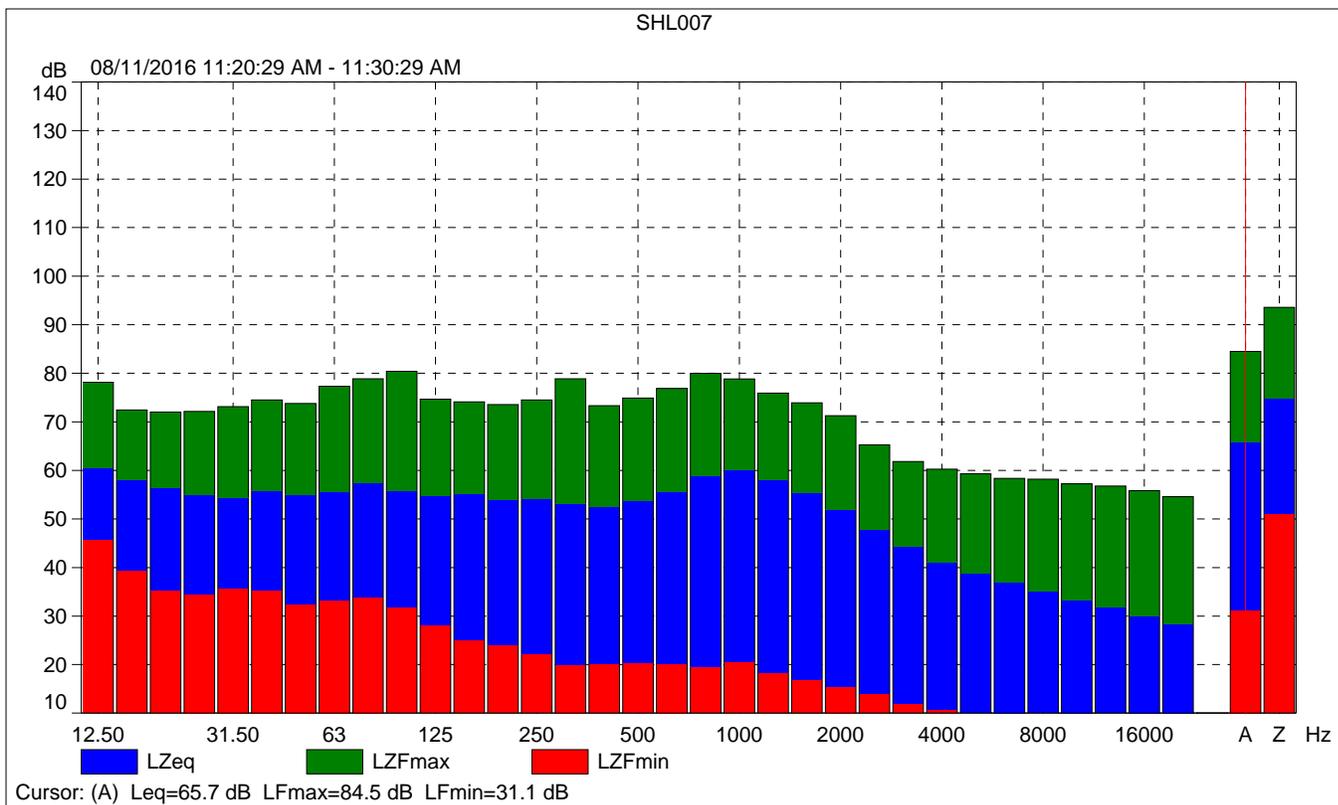
	Time	Frequency
Broadband (excl. Peak):	FSI	AZ
Broadband Peak:		C
Spectrum:	FS	Z

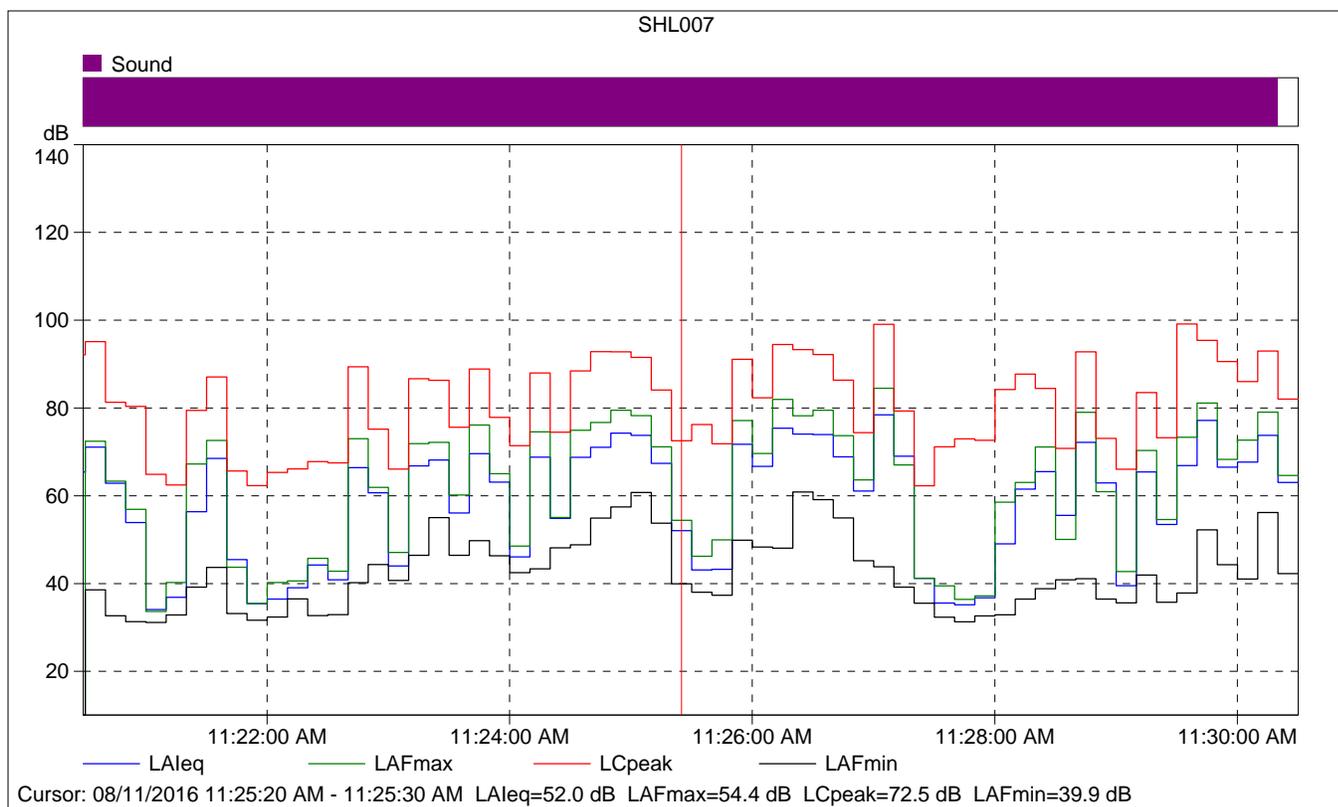
Instrument Serial Number:		2548189
Microphone Serial Number:		2543364
Input:		Top Socket
Windscreen Correction:		None
Sound Field Correction:		Free-field

Calibration Time:		08/10/2016 15:32:58
Calibration Type:		External reference
Sensitivity:		64.6921619772911 mV/Pa

SHL007

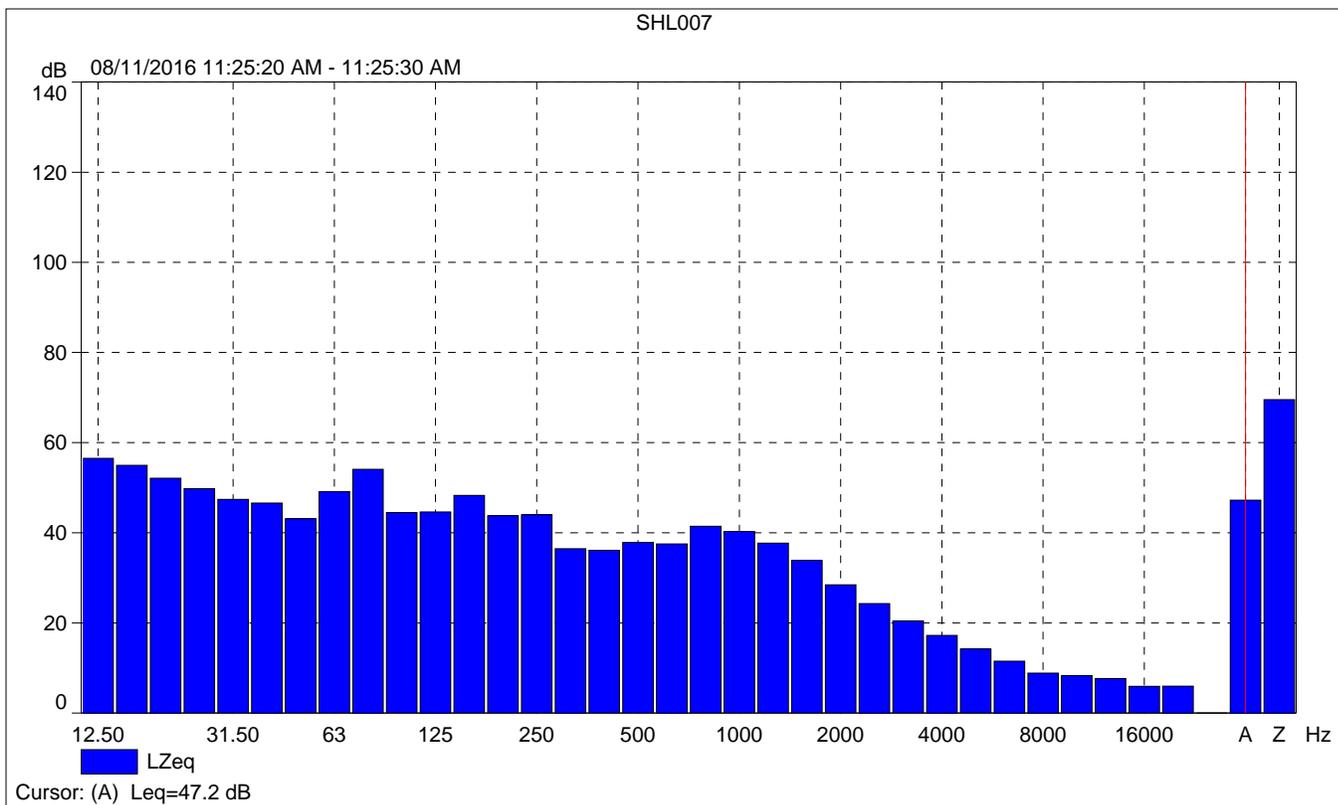
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	65.7	84.5	31.1
Time	11:20:29 AM	11:30:29 AM	0:10:00				
Date	08/11/2016	08/11/2016					





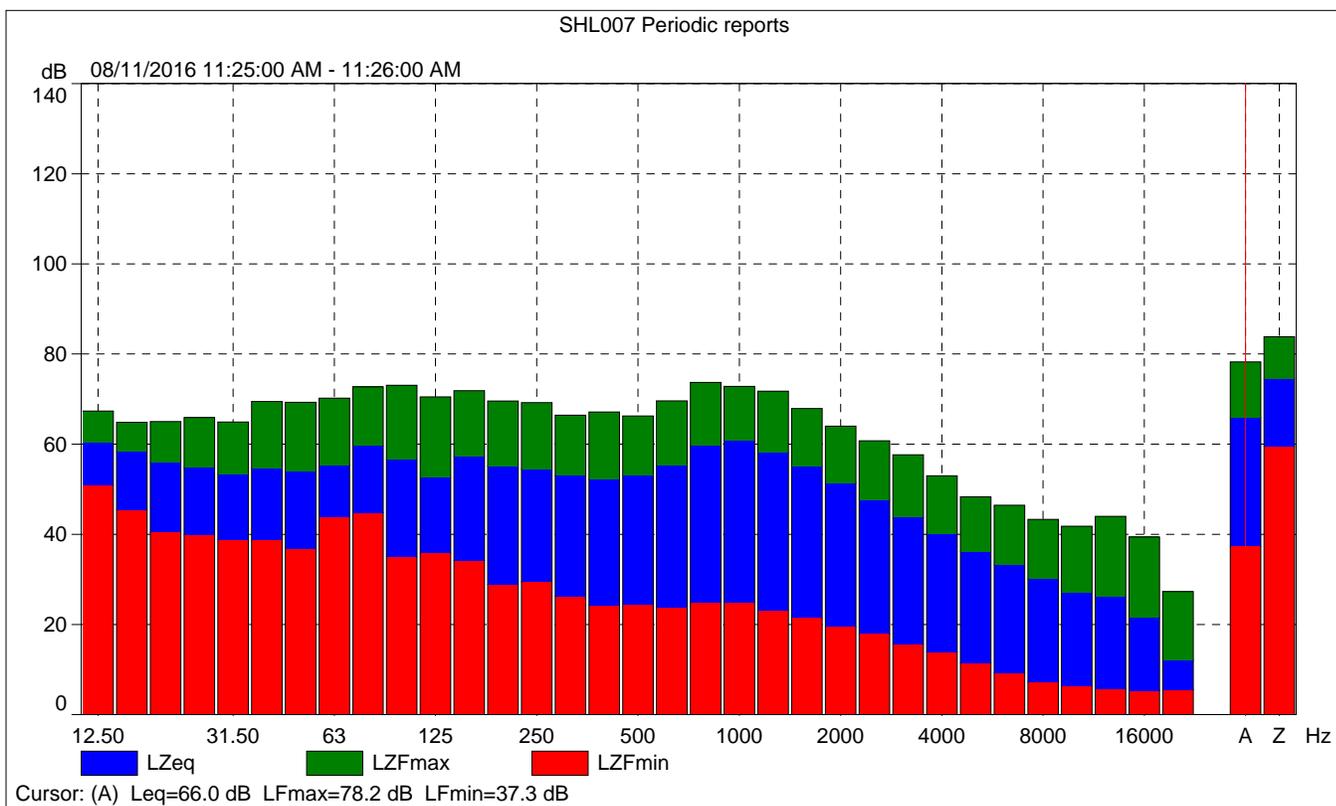
SHL007

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			52.0	54.4	39.9
Time	11:25:20 AM	0:00:10			
Date	08/11/2016				



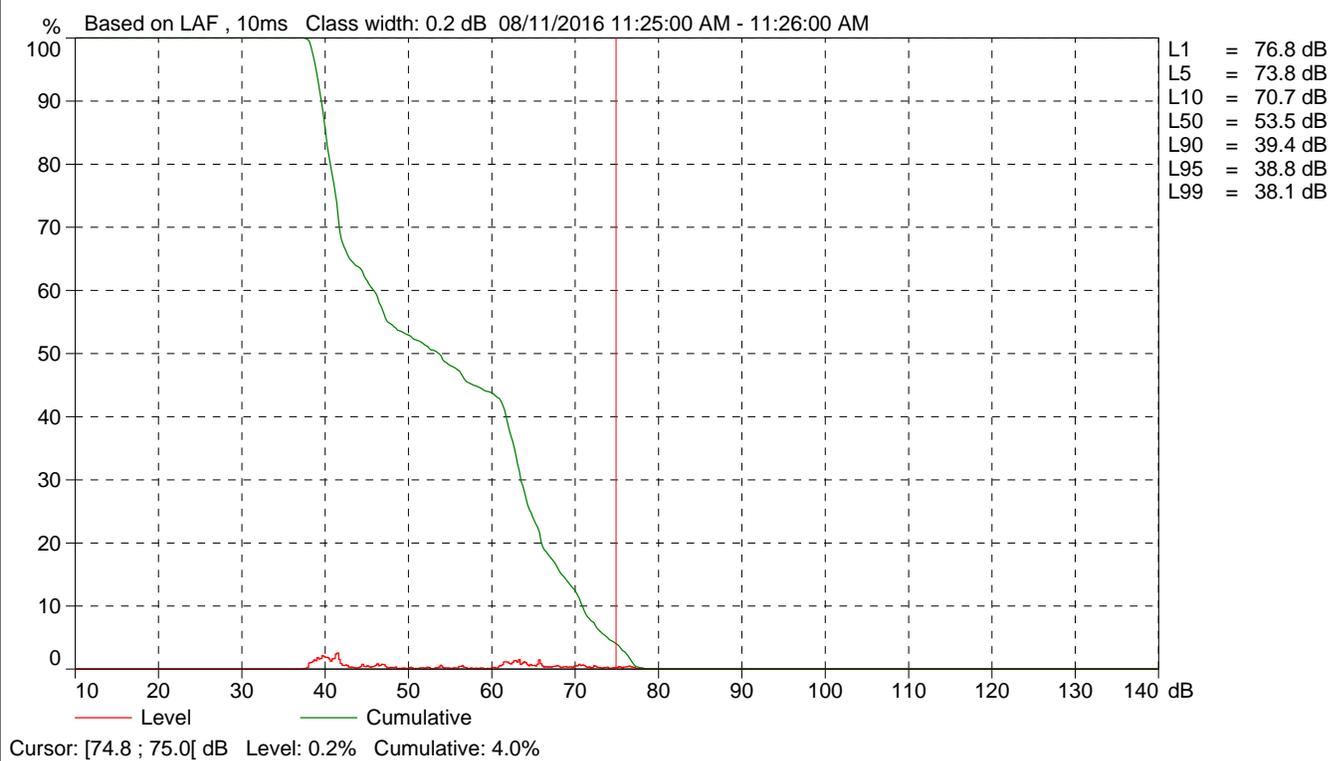
SHL007 Periodic reports

	Start time	Elapsed time	Overload [%]	LALeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	68.7	78.2	37.3
Time	11:25:00 AM	0:01:00				
Date	08/11/2016					





SHL007 Periodic reports



TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1A
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL: _____

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 30 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
San Pasqual Road														
Ryan Drive to Bear Valley Parkway	4	0	14,470	50	0.5	1.8%	0.1%	72.1	-	89	192	413	30	
San Pasqual Valley Road														
Cloverdale Road/San Pasqual Road Intersection to Summit Drive	4	0	10,490	55	0.5	1.8%	0.1%	71.8	-	85	183	395	30	
Bear Valley Parkway														
San Pasqual Valley Road to Sunset Drive	2	0	19,930	50	0.5	1.8%	0.1%	72.2	42	90	194	417	30	

01-Demo at Ferncreek Lane (108) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Demolition at Ferncreek Lane (108) - no mit

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Existing Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Excavator	No	40		80.7	108.0	0.0
Excavator	No	40		80.7	108.0	0.0
Excavator	No	40		80.7	158.0	0.0
Dozer	No	40		81.7	108.0	0.0
Dozer	No	40		81.7	108.0	0.0

Results

		Noise Limit Exceedance (dBA)				Noise Limits (dBA)			
		Calculated (dBA)		Day		Evening			
Night		Day	Evening		Night		Evening		
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator	N/A	74.0	70.0	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	74.0	70.0	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	70.7	66.7	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	N/A	75.0	71.0	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

01-Demo at Ferncreek Lane (108) - unmitigated.txt

Dozer			75.0	71.0	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		75.0	77.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

02-Demo at Ferncreek Lane (108) - mitigated.txt									
Dozer			72.0	68.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total		72.0	74.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

03-Demo at Sprucewood Lane (133) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Demolition at Sprucewood Lane (133) - no mit

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Existing Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40	80.7	80.7	133.0	0.0
Excavator	No	40	80.7	80.7	133.0	0.0
Excavator	No	40	80.7	80.7	183.0	0.0
Dozer	No	40	81.7	81.7	133.0	0.0
Dozer	No	40	81.7	81.7	133.0	0.0

Results

Noise Limit Exceedance (dBA)										Noise Limits (dBA)		
Night		Day		Calculated (dBA) Evening		Day Night		Evening				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax		
Excavator	N/A	N/A	N/A	72.2	68.2	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Excavator	N/A	N/A	N/A	72.2	68.2	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Excavator	N/A	N/A	N/A	69.4	65.5	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Dozer	N/A	N/A	N/A	73.2	69.2	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

03-Demo at Sprucewood Lane (133) - unmitigated.txt

Dozer			73.2	69.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	Total		73.2	75.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

04-Demo at Sprucewood Lane (133) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Demolition at Sprucewood Lane (133) - mitigated

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Existing Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40	80.7	80.7	133.0	3.0
Excavator	No	40	80.7	80.7	133.0	3.0
Excavator	No	40	80.7	80.7	183.0	3.0
Dozer	No	40	81.7	81.7	133.0	3.0
Dozer	No	40	81.7	81.7	133.0	3.0

Results

Equipment	Noise Limit Exceedance (dBA)					Noise Limits (dBA)			
	Day	Evening	Day	Evening	Night	Day	Evening	Night	Day
Excavator									
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator									
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator									
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer									
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

04-Demo at Sprucewood Lane (133) - mitigated.txt									
Dozer			70.2	66.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total		70.2	72.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

05-Demo at Wynwood Court (220) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Demolition at Wynwood Court (220) - no mit

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Existing Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40	80.7	80.7	220.0	0.0
Excavator	No	40	80.7	80.7	220.0	0.0
Excavator	No	40	80.7	80.7	270.0	0.0
Dozer	No	40	81.7	81.7	220.0	0.0
Dozer	No	40	81.7	81.7	220.0	0.0

Results

		Noise Limit Exceedance (dBA)				Noise Limits (dBA)			
		Day		Evening		Day Night		Evening	
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator	N/A	N/A	N/A	67.8	63.9	N/A	N/A	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	N/A	N/A	N/A	67.8	63.9	N/A	N/A	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	N/A	N/A	N/A	66.1	62.1	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	N/A	N/A	N/A	68.8	64.8	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

05-Demo at Wynwood Court (220) - unmitigated.txt									
Dozer			68.8	64.8	N/A	N/A	N/A	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		68.8	71.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

06-Demo at Wynwood Court (220) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Demolition at Wynwood Court - mitigated

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Existing Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Excavator	No	40	80.7	80.7	220.0	3.0
Excavator	No	40	80.7	80.7	220.0	3.0
Excavator	No	40	80.7	80.7	270.0	3.0
Dozer	No	40	81.7	81.7	220.0	3.0
Dozer	No	40	81.7	81.7	220.0	3.0

Results

Noise Limit Exceedance (dBA)										Noise Limits (dBA)		
Night		Day		Calculated (dBA) Evening		Day Night		Evening				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax		
Excavator	N/A	N/A	N/A	64.8	60.9	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	64.8	60.9	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	63.1	59.1	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Dozer	N/A	N/A	N/A	65.8	61.8	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

06-Demo at Wynwood Court (220) - mitigated.txt

Dozer			65.8	61.8	N/A	N/A	N/A	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		65.8	68.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

07-Demo at Walden Glen (327) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Demolition at Walden Glen (327) - unmitigated

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Existing Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Excavator	No	40	80.7	80.7	327.0	0.0
Excavator	No	40	80.7	80.7	327.0	0.0
Excavator	No	40	80.7	80.7	377.0	0.0
Dozer	No	40	81.7	81.7	327.0	0.0
Dozer	No	40	81.7	81.7	327.0	0.0

Results

Noise Limit Exceedance (dBA)										Noise Limits (dBA)		
Night		Day		Calculated (dBA) Evening		Day Night		Evening				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax		
Excavator	N/A	N/A	N/A	64.4	60.4	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	64.4	60.4	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	63.2	59.2	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Dozer	N/A	N/A	N/A	65.4	61.4	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

07-Demo at Walden Glen (327) - unmitigated.txt

Dozer			65.4	61.4	N/A	N/A	N/A	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		65.4	67.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

08-Demo at Walden Glen (327) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Demolition at Walden Glen (327) - mit

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Existing Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Excavator	No	40		80.7	327.0	3.0
Excavator	No	40		80.7	327.0	3.0
Excavator	No	40		80.7	377.0	3.0
Dozer	No	40		81.7	327.0	3.0
Dozer	No	40		81.7	327.0	3.0

Results

Noise Limit Exceedance (dBA)										Noise Limits (dBA)		
Night		Day		Calculated (dBA) Evening		Day Night		Evening				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax		
Excavator	N/A	N/A	N/A	61.4	57.4	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	61.4	57.4	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	60.2	56.2	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Dozer	N/A	N/A	N/A	62.4	58.4	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

08-Demo at Walden Glen (327) - mitigated.txt

Dozer			62.4	58.4	N/A	N/A	N/A	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		62.4	64.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

09-Demo at Rockwood Road (390) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Demolition Noise at Rockwood Road (390) - unmitigated

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Existing Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Excavator	No	40		80.7	390.0	0.0
Excavator	No	40		80.7	390.0	0.0
Excavator	No	40		80.7	390.0	0.0
Dozer	No	40		81.7	390.0	0.0
Dozer	No	40		81.7	390.0	0.0

Results

Noise Limit Exceedance (dBA)										Noise Limits (dBA)		
Night		Day		Calculated (dBA) Evening		Day Night		Evening				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax		
Excavator	N/A	N/A	N/A	62.9	58.9	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	62.9	58.9	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	62.9	58.9	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Dozer	N/A	N/A	N/A	63.8	59.8	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

09-Demo at Rockwood Road (390) - unmitigated.txt									
Dozer			63.8	59.8	N/A	N/A	N/A	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		63.8	66.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

10-Demo at Rockwood Road (390) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Demolition Noise at Rockwood Road (390) - mitigated

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Existing Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40	80.7	80.7	390.0	3.0
Excavator	No	40	80.7	80.7	390.0	3.0
Excavator	No	40	80.7	80.7	390.0	3.0
Dozer	No	40	81.7	81.7	390.0	3.0
Dozer	No	40	81.7	81.7	390.0	3.0

Results

Noise Limit Exceedance (dBA)										Noise Limits (dBA)		
Night		Day		Calculated (dBA) Evening		Day Night		Evening				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax		
Excavator	N/A	N/A	N/A	59.9	55.9	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	59.9	55.9	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	59.9	55.9	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Dozer	N/A	N/A	N/A	60.8	56.8	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

10-Demo at Rockwood Road (390) - mitigated.txt

Dozer			60.8	56.8	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		60.8	63.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

11-Demo at Safari Park (700) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Demolition Noise at Safari Park (700) - no mit

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Existing Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Excavator	No	40	80.7	80.7	700.0	0.0
Excavator	No	40	80.7	80.7	700.0	0.0
Excavator	No	40	80.7	80.7	750.0	0.0
Dozer	No	40	81.7	81.7	700.0	0.0
Dozer	No	40	81.7	81.7	700.0	0.0

Results

Noise Limit Exceedance (dBA)										Noise Limits (dBA)		
Night		Day		Calculated (dBA) Evening		Day Night		Evening				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax		
Excavator	N/A	N/A	N/A	57.8	53.8	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	57.8	53.8	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	57.2	53.2	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Dozer	N/A	N/A	N/A	58.7	54.8	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

11-Demo at Safari Park (700) - unmitigated.txt

Dozer			58.7	54.8	N/A	N/A	N/A	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		58.7	61.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

12-Demo at Safari Park (700) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Demolition Noise at Safari Park (700) - mit

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Existing Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Excavator	No	40	80.7	80.7	700.0	3.0
Excavator	No	40	80.7	80.7	700.0	3.0
Excavator	No	40	80.7	80.7	750.0	3.0
Dozer	No	40	81.7	81.7	700.0	3.0
Dozer	No	40	81.7	81.7	700.0	3.0

Results

		Noise Limit Exceedance (dBA)				Noise Limits (dBA)			
		Day		Evening		Day Night		Evening	
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator	N/A	N/A	54.8	50.8	N/A	N/A	N/A	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	N/A	N/A	54.8	50.8	N/A	N/A	N/A	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	N/A	N/A	54.2	50.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	N/A	N/A	55.7	51.8	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

12-Demo at Safari Park (700) - mitigated.txt

Dozer			55.7	51.8	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		55.7	58.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

13-Blasting at Ferncreek Lane (108).txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Blasting at Ferncreek Lane

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
On-site Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Equipment		
				Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Blasting	Yes	1	94.0		108.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				
Night	Day	Calculated (dBA)			Day Night	Evening			Lmax
		Day	Evening	Evening		Lmax	Leq	Lmax	
Equipment									
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Blasting			87.3	67.3	N/A	N/A	N/A	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		87.3	67.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

14-Blasting at Sprucewood Lane (133).txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Blasting at Sprucewood Lane (133)

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
On-site Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Equipment		
				Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Blasting	Yes	1	94.0		133.0	0.0

Results

Noise Limit Exceedance (dBA)										Noise Limits (dBA)	
Night	Calculated (dBA)					Day Night		Evening		Lmax	
	Day	Evening		Night		Lmax	Leq	Lmax	Leq		
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
Blasting	N/A	N/A	N/A	85.5	65.5	N/A	N/A	N/A	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		85.5	65.5	N/A	N/A	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

15-Blasting at Wynwood Court (220).txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Blasting at Wynwood Court (220)

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
On-site Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Equipment		
				Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Blasting	Yes	1	94.0		220.0	0.0

Results

Noise Limit Exceedance (dBA)										Noise Limits (dBA)		
Night	Calculated (dBA)					Day Night		Evening				
	Day	Evening				Lmax	Leq	Lmax	Leq	Lmax		
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
Blasting	N/A	N/A	81.1	61.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Total		81.1	61.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

16-Blasting at Walden Glen (327).txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Blasting at Walden Glen (327)

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
On-site Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Equipment		
				Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Blasting	Yes	1	94.0		327.0	0.0

Results

Noise Limit Exceedance (dBA)										Noise Limits (dBA)	
Night	Calculated (dBA)					Day		Evening		Lmax	
	Day	Evening		Night		Lmax	Leq	Lmax	Leq		
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
Blasting	N/A	N/A	N/A	77.7	57.7	N/A	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Total		77.7	57.7	N/A	N/A	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

17-Blasting at Rockwood Road (390).txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Blasting at Rockwood Road (390)

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
On-site Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Equipment		
				Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Blasting	Yes	1	94.0		390.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				
Night	Day	Calculated (dBA)			Day Night	Evening			
		Day	Evening	Night		Day	Evening	Night	
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Blasting	N/A	N/A	76.2	56.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	76.2	56.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

18-Blasting at Safari Park (700).txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 11/23/2016
 Case Description: Blasting Noise at Safari Park (700)

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
On-site Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Equipment		
				Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Blasting	Yes	1	94.0		700.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				
Night	Day	Calculated (dBA)			Day Night	Evening			Lmax
		Day	Evening	Evening		Lmax	Leq	Lmax	
Equipment									
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Blasting	N/A	N/A	71.1	51.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	71.1	51.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

19-Blasting at Barelin Road (330).txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Blasting at Barelin Road (100)

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
On-site Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Equipment		
				Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Blasting	Yes	1	94.0		330.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				
Night	Day	Calculated (dBA)			Day Night	Evening			Lmax
		Day	Evening	Evening		Lmax	Leq	Lmax	
Equipment									
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Blasting	N/A	N/A	77.6	57.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	77.6	57.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

20-Blasting at Old Wagon Road (350).txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 11/23/2016
 Case Description: Blasting Noise at Old Wagon Road (350)

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Blasting	Yes	1	94.0		350.0	0.0

Results

Noise Limit Exceedance (dBA)							Noise Limits (dBA)		
Night	Day	Calculated (dBA)			Day		Evening		
		Day	Evening	Night	Day	Night	Lmax	Leq	Lmax
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Blasting	N/A	N/A	77.1	57.1	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	77.1	57.1	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

21-Blasting at Old Wagon Road (400).txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Blasting at Old Wagon Road (400)

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Blasting	Yes	1	94.0		400.0	0.0

Results

Noise Limit Exceedance (dBA)							Noise Limits (dBA)		
Night	Day	Calculated (dBA)			Day Night		Evening		
		Day	Evening	Leq	Lmax	Leq	Lmax	Leq	Lmax
Blasting	N/A	N/A	75.9	55.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	75.9	55.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

22-Grading-Crushing at Ferncreek Lane (108) - unmitigated.txt
 Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 01/13/2017
 Case Description: Grading-Crushing Noise at Ferncreek Lane (108) - unmitigated

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Drill Rig Truck	No	20		79.1	258.0	0.0
Drill Rig Truck	No	20		79.1	358.0	0.0
Tractor	No	40	84.0		108.0	0.0
Tractor	No	40	84.0		208.0	0.0
Tractor	No	40	84.0		508.0	0.0
Tractor	No	40	84.0		558.0	0.0
Tractor	No	40	84.0		608.0	0.0
Tractor	No	40	84.0		658.0	0.0
Tractor	No	40	84.0		708.0	0.0
Tractor	No	40	84.0		758.0	0.0
Rock Drill	No	20		81.0	500.0	0.0
Excavator	No	40		80.7	158.0	0.0
Excavator	No	40		80.7	258.0	0.0
Grader	No	40	85.0		208.0	0.0
Pickup Truck	No	40		75.0	158.0	0.0
Front End Loader	No	40		79.1	108.0	0.0
Backhoe	No	40		77.6	208.0	0.0
Dozer	No	40		81.7	308.0	0.0
Dozer	No	40		81.7	408.0	0.0
Dozer	No	40		81.7	208.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

22-Grading-Crushing at Ferncreek Lane (108) - unmitigated.txt

Night	Calculated (dBA)									
	Day			Evening		Night		Evening		
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Drill Rig Truck	N/A	N/A	N/A	64.9	57.9	N/A	N/A	N/A	N/A	N/A
Drill Rig Truck	N/A	N/A	N/A	62.0	55.1	N/A	N/A	N/A	N/A	N/A
Tractor	N/A	N/A	N/A	77.3	73.3	N/A	N/A	N/A	N/A	N/A
Tractor	N/A	N/A	N/A	71.6	67.6	N/A	N/A	N/A	N/A	N/A
Tractor	N/A	N/A	N/A	63.9	59.9	N/A	N/A	N/A	N/A	N/A
Tractor	N/A	N/A	N/A	63.0	59.1	N/A	N/A	N/A	N/A	N/A
Tractor	N/A	N/A	N/A	62.3	58.3	N/A	N/A	N/A	N/A	N/A
Tractor	N/A	N/A	N/A	61.6	57.6	N/A	N/A	N/A	N/A	N/A
Tractor	N/A	N/A	N/A	61.0	57.0	N/A	N/A	N/A	N/A	N/A
Tractor	N/A	N/A	N/A	60.4	56.4	N/A	N/A	N/A	N/A	N/A
Rock Drill	N/A	N/A	N/A	61.0	54.0	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	N/A	N/A	70.7	66.7	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	N/A	N/A	66.5	62.5	N/A	N/A	N/A	N/A	N/A
Grader	N/A	N/A	N/A	72.6	68.6	N/A	N/A	N/A	N/A	N/A
Pickup Truck	N/A	N/A	N/A	65.0	61.0	N/A	N/A	N/A	N/A	N/A
Front End Loader	N/A	N/A	N/A	72.4	68.4	N/A	N/A	N/A	N/A	N/A
Backhoe	N/A	N/A	N/A	65.2	61.2	N/A	N/A	N/A	N/A	N/A
Dozer	N/A	N/A	N/A	65.9	61.9	N/A	N/A	N/A	N/A	N/A
Dozer	N/A	N/A	N/A	63.4	59.5	N/A	N/A	N/A	N/A	N/A
Dozer	N/A	N/A	N/A	69.3	65.3	N/A	N/A	N/A	N/A	N/A

22-Grading-Crushing at Ferncreek Lane (108) - unmitigated.txt

	Total	77.3	77.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

23-Grading-Crushing at Ferncreek Lane (108) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Grading-Crushing Noise at Ferncreek Lane (108) - mitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Drill Rig Truck	No	20		79.1	258.0	3.0
Drill Rig Truck	No	20		79.1	358.0	3.0
Tractor	No	40	84.0		108.0	3.0
Tractor	No	40	84.0		208.0	3.0
Tractor	No	40	84.0		508.0	3.0
Tractor	No	40	84.0		558.0	3.0
Tractor	No	40	84.0		608.0	3.0
Tractor	No	40	84.0		658.0	3.0
Tractor	No	40	84.0		708.0	3.0
Tractor	No	40	84.0		758.0	3.0
Rock Drill	No	20		81.0	500.0	3.0
Excavator	No	40		80.7	158.0	3.0
Excavator	No	40		80.7	258.0	3.0
Grader	No	40	85.0		208.0	3.0
Pickup Truck	No	40		75.0	158.0	3.0
Front End Loader	No	40		79.1	108.0	3.0
Backhoe	No	40		77.6	208.0	3.0
Dozer	No	40		81.7	308.0	3.0
Dozer	No	40		81.7	408.0	3.0
Dozer	No	40		81.7	208.0	3.0

Results

Noise Limit Exceedance (dBA)	Noise Limits (dBA)	
	Day	Evening
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23-Grading-Crushing at Ferncreek Lane (108) - mitigated.txt

Night	Day		Evening		Night				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Drill Rig	Truck		61.9	54.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Drill Rig	Truck		59.0	52.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			74.3	70.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			68.6	64.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			60.9	56.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			60.0	56.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			59.3	55.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			58.6	54.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			58.0	54.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			57.4	53.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rock Drill			58.0	51.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			67.7	63.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			63.5	59.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader			69.6	65.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pickup Truck			62.0	58.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader			69.4	65.4	N/A	N/A	N/A	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			62.2	58.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			62.9	58.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			60.4	56.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			66.3	62.3	N/A	N/A	N/A	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			74.3	74.9	N/A	N/A	N/A	N/A	N/A

N/A 23-Grading-Crushing at Ferncreek Lane (108) - mitigated.txt
N/A N/A N/A N/A N/A N/A

24-Grading-Crushing at Sprucewood Lane (133) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Grading-Crushing at Sprucewood Lane (133) - unmitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Drill Rig Truck	No	20		79.1	283.0	0.0
Drill Rig Truck	No	20		79.1	383.0	0.0
Tractor	No	40	84.0		133.0	0.0
Tractor	No	40	84.0		233.0	0.0
Tractor	No	40	84.0		533.0	0.0
Tractor	No	40	84.0		583.0	0.0
Tractor	No	40	84.0		633.0	0.0
Tractor	No	40	84.0		683.0	0.0
Tractor	No	40	84.0		733.0	0.0
Tractor	No	40	84.0		783.0	0.0
Rock Drill	No	20		81.0	500.0	0.0
Excavator	No	40		80.7	183.0	0.0
Excavator	No	40		80.7	283.0	0.0
Grader	No	40	85.0		233.0	0.0
Pickup Truck	No	40		75.0	183.0	0.0
Front End Loader	No	40		79.1	133.0	0.0
Backhoe	No	40		77.6	233.0	0.0
Dozer	No	40		81.7	333.0	0.0
Dozer	No	40		81.7	433.0	0.0
Dozer	No	40		81.7	233.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Calculated (dBA)	Day	Evening
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24-Grading-Crushing at Sprucewood Lane (133) - unmitigated.txt

Night	Day		Evening		Night				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Drill Rig	Truck		64.1	57.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Drill Rig	Truck		61.5	54.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			75.5	71.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			70.6	66.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			63.4	59.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			62.7	58.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			62.0	58.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			61.3	57.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			60.7	56.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			60.1	56.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rock Drill			61.0	54.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			69.4	65.5	N/A	N/A	N/A	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			65.7	61.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader			71.6	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	N/A	N/A	N/A
Pickup Truck			63.7	59.8	N/A	N/A	N/A	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			70.6	66.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			64.2	60.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			65.2	61.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			62.9	58.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			68.3	64.3	N/A	N/A	N/A	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			75.5	76.6	N/A	N/A	N/A	N/A	N/A

N/A 24-Grading-Crushing at Sprucewood Lane (133) - unmitigated.txt
N/A N/A N/A N/A N/A N/A

25-Grading-Crushing at Sprucewood Lane (133) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Grading-Crushing at Sprucewood Lane (133) - mitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Drill Rig Truck	No	20		79.1	283.0	3.0
Drill Rig Truck	No	20		79.1	383.0	3.0
Tractor	No	40	84.0		133.0	3.0
Tractor	No	40	84.0		233.0	3.0
Tractor	No	40	84.0		533.0	3.0
Tractor	No	40	84.0		583.0	3.0
Tractor	No	40	84.0		633.0	3.0
Tractor	No	40	84.0		683.0	3.0
Tractor	No	40	84.0		733.0	3.0
Tractor	No	40	84.0		783.0	3.0
Rock Drill	No	20		81.0	500.0	3.0
Excavator	No	40		80.7	183.0	3.0
Excavator	No	40		80.7	283.0	3.0
Grader	No	40	85.0		233.0	3.0
Pickup Truck	No	40		75.0	183.0	3.0
Front End Loader	No	40		79.1	133.0	3.0
Backhoe	No	40		77.6	233.0	3.0
Dozer	No	40		81.7	333.0	3.0
Dozer	No	40		81.7	433.0	3.0
Dozer	No	40		81.7	233.0	3.0

Results

Noise Limit Exceedance (dBA)	Noise Limits (dBA)	
	Day	Evening
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25-Grading-Crushing at Sprucewood Lane (133) - mitigated.txt

Night	Day		Evening		Night				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Drill Rig	Truck		61.1	54.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Drill Rig	Truck		58.5	51.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			72.5	68.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			67.6	63.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			60.4	56.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			59.7	55.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			59.0	55.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			58.3	54.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			57.7	53.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			57.1	53.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rock Drill			58.0	51.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			66.4	62.5	N/A	N/A	N/A	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			62.7	58.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader			68.6	64.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pickup Truck			60.7	56.8	N/A	N/A	N/A	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			67.6	63.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			61.2	57.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			62.2	58.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			59.9	55.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			65.3	61.3	N/A	N/A	N/A	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			72.5	73.6	N/A	N/A	N/A	N/A	N/A

N/A 25-Grading-Crushing at Sprucewood Lane (133) - mitigated.txt
N/A N/A N/A N/A N/A N/A

26-Grading-Crushing at Wynwood Court (220) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Grading-Crushing at Wynwood Court (220) - unmitigated

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Drill Rig Truck	No	20		79.1	370.0	0.0
Drill Rig Truck	No	20		79.1	470.0	0.0
Tractor	No	40	84.0		220.0	0.0
Tractor	No	40	84.0		270.0	0.0
Tractor	No	40	84.0		520.0	0.0
Tractor	No	40	84.0		620.0	0.0
Tractor	No	40	84.0		720.0	0.0
Tractor	No	40	84.0		770.0	0.0
Tractor	No	40	84.0		720.0	0.0
Tractor	No	40	84.0		820.0	0.0
Rock Drill	No	20		81.0	500.0	0.0
Excavator	No	40		80.7	270.0	0.0
Excavator	No	40		80.7	320.0	0.0
Grader	No	40	85.0		270.0	0.0
Pickup Truck	No	40		75.0	220.0	0.0
Front End Loader	No	40		79.1	220.0	0.0
Backhoe	No	40		77.6	320.0	0.0
Dozer	No	40		81.7	420.0	0.0
Dozer	No	40		81.7	520.0	0.0
Dozer	No	40		81.7	320.0	0.0

Results

Noise Limit Exceedance (dBA)	Noise Limits (dBA)	
	Day	Evening
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26-Grading-Crushing at Wynwood Court (220) - unmitigated.txt

Night	Day		Evening		Night				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Drill Rig Truck	N/A	N/A	61.8	54.8	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Drill Rig Truck	N/A	N/A	59.7	52.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	N/A	N/A	71.1	67.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	N/A	N/A	69.4	65.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	N/A	N/A	63.7	59.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	N/A	N/A	62.1	58.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	N/A	N/A	60.8	56.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	N/A	N/A	60.2	56.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	N/A	N/A	60.8	56.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	N/A	N/A	59.7	55.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rock Drill	N/A	N/A	61.0	54.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	N/A	66.1	62.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	N/A	64.6	60.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	N/A	N/A	70.4	66.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pickup Truck	N/A	N/A	62.1	58.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	N/A	N/A	66.2	62.3	N/A	N/A	N/A	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	N/A	N/A	61.4	57.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	N/A	N/A	63.2	59.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	N/A	N/A	61.3	57.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	N/A	N/A	65.5	61.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total			71.1	74.1	N/A	N/A	N/A	N/A	N/A

N/A 26-Grading-Crushing at Wynwood Court (220) - unmitigated.txt
N/A N/A N/A N/A N/A N/A

27-Grading-Crushing at Wynwood Court (220) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Grading-Crushing at Wynwood Court (220) - mitigated

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Drill Rig Truck	No	20		79.1	370.0	3.0
Drill Rig Truck	No	20		79.1	470.0	3.0
Tractor	No	40	84.0		220.0	3.0
Tractor	No	40	84.0		270.0	3.0
Tractor	No	40	84.0		520.0	3.0
Tractor	No	40	84.0		620.0	3.0
Tractor	No	40	84.0		720.0	3.0
Tractor	No	40	84.0		770.0	3.0
Tractor	No	40	84.0		720.0	3.0
Tractor	No	40	84.0		820.0	3.0
Rock Drill	No	20		81.0	500.0	3.0
Excavator	No	40		80.7	270.0	3.0
Excavator	No	40		80.7	320.0	3.0
Grader	No	40	85.0		270.0	3.0
Pickup Truck	No	40		75.0	220.0	3.0
Front End Loader	No	40		79.1	220.0	3.0
Backhoe	No	40		77.6	320.0	3.0
Dozer	No	40		81.7	420.0	3.0
Dozer	No	40		81.7	520.0	3.0
Dozer	No	40		81.7	320.0	3.0

Results

Noise Limit Exceedance (dBA)	Noise Limits (dBA)	
	Day	Evening
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27-Grading-Crushing at Wynwood Court (220) - mitigated.txt

Night	Day		Evening		Night					
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Drill Rig	Truck		58.8		51.8		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Drill Rig	Truck		56.7		49.7		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			68.1		64.2		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			66.4		62.4		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			60.7		56.7		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			59.1		55.2		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			57.8		53.9		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			57.2		53.3		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			57.8		53.9		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			56.7		52.7		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rock Drill			58.0		51.0		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			63.1		59.1		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			61.6		57.6		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader			67.4		63.4		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pickup Truck			59.1		55.2		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader			63.2		59.3		N/A		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			58.4		54.5		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			60.2		56.2		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			58.3		54.3		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			62.5		58.6		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	68.1		71.1		N/A		N/A	N/A

27-Grading-Crushing at Wynwood Court (220) - mitigated.txt
N/A N/A N/A N/A N/A N/A

28-Grading-Crushing at Walden Glen (327) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Grading-Crushing at Walden Glen (327) - unmitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Drill Rig Truck	No	20		79.1	477.0	0.0
Drill Rig Truck	No	20		79.1	577.0	0.0
Tractor	No	40	84.0		327.0	0.0
Tractor	No	40	84.0		377.0	0.0
Tractor	No	40	84.0		627.0	0.0
Tractor	No	40	84.0		727.0	0.0
Tractor	No	40	84.0		827.0	0.0
Tractor	No	40	84.0		877.0	0.0
Tractor	No	40	84.0		827.0	0.0
Tractor	No	40	84.0		827.0	0.0
Rock Drill	No	20		81.0	500.0	0.0
Excavator	No	40		80.7	377.0	0.0
Excavator	No	40		80.7	427.0	0.0
Grader	No	40	85.0		377.0	0.0
Pickup Truck	No	40		75.0	327.0	0.0
Front End Loader	No	40		79.1	327.0	0.0
Backhoe	No	40		77.6	427.0	0.0
Dozer	No	40		81.7	420.0	0.0
Dozer	No	40		81.7	520.0	0.0
Dozer	No	40		81.7	320.0	0.0

Results

Noise Limit Exceedance (dBA)	Noise Limits (dBA)	
	Day	Evening
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28-Grading-Crushing at Walden Glen (327) - unmitigated.txt

Night	Day		Evening		Night				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Drill Rig	Truck		59.5	52.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Drill Rig	Truck		57.9	50.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			67.7	63.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			66.5	62.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			62.0	58.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			60.7	56.8	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			59.6	55.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			59.1	55.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			59.6	55.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			59.6	55.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rock Drill			61.0	54.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			63.2	59.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			62.1	58.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader			67.5	63.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pickup Truck			58.7	54.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader			62.8	58.8	N/A	N/A	N/A	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			58.9	55.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			63.2	59.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			61.3	57.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			65.5	61.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total			67.7	71.8	N/A	N/A	N/A	N/A	N/A

28-Grading-Crushing at Walden Glen (327) - unmitigated.txt
N/A N/A N/A N/A N/A N/A

29-Grading-Crushing at Walden Glen (327) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Grading-Crushing at Walden Glen (327) - mitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Drill Rig Truck	No	20		79.1	477.0	3.0
Drill Rig Truck	No	20		79.1	577.0	3.0
Tractor	No	40	84.0		327.0	3.0
Tractor	No	40	84.0		377.0	3.0
Tractor	No	40	84.0		627.0	3.0
Tractor	No	40	84.0		727.0	3.0
Tractor	No	40	84.0		827.0	3.0
Tractor	No	40	84.0		877.0	3.0
Tractor	No	40	84.0		827.0	3.0
Tractor	No	40	84.0		827.0	3.0
Rock Drill	No	20		81.0	500.0	3.0
Excavator	No	40		80.7	377.0	3.0
Excavator	No	40		80.7	427.0	3.0
Grader	No	40	85.0		377.0	3.0
Pickup Truck	No	40		75.0	327.0	3.0
Front End Loader	No	40		79.1	327.0	3.0
Backhoe	No	40		77.6	427.0	3.0
Dozer	No	40		81.7	420.0	3.0
Dozer	No	40		81.7	520.0	3.0
Dozer	No	40		81.7	320.0	3.0

Results

Noise Limit Exceedance (dBA)	Noise Limits (dBA)	
	Day	Evening
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29-Grading-Crushing at Walden Glen (327) - mitigated.txt

Night	Day		Evening		Night				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Drill Rig	Truck		56.5	49.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Drill Rig	Truck		54.9	47.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			64.7	60.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			63.5	59.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			59.0	55.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			57.7	53.8	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			56.6	52.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			56.1	52.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			56.6	52.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			56.6	52.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rock Drill			58.0	51.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			60.2	56.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			59.1	55.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader			64.5	60.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pickup Truck			55.7	51.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader			59.8	55.8	N/A	N/A	N/A	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			55.9	52.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			60.2	56.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			58.3	54.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			62.5	58.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	64.7	68.8	N/A	N/A	N/A	N/A	N/A

29-Grading-Crushing at Walden Glen (327) - mitigated.txt
N/A N/A N/A N/A N/A N/A

30-Grading-Crushing at Rockwood Road (390) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Grading-Crushing at Rockwood Road (390) - unmitigated

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Drill Rig Truck	No	20		79.1	490.0	0.0
Drill Rig Truck	No	20		79.1	590.0	0.0
Tractor	No	40	84.0		390.0	0.0
Tractor	No	40	84.0		440.0	0.0
Tractor	No	40	84.0		690.0	0.0
Tractor	No	40	84.0		740.0	0.0
Tractor	No	40	84.0		890.0	0.0
Tractor	No	40	84.0		910.0	0.0
Tractor	No	40	84.0		827.0	0.0
Tractor	No	40	84.0		960.0	0.0
Rock Drill	No	20		81.0	500.0	0.0
Excavator	No	40		80.7	440.0	0.0
Excavator	No	40		80.7	490.0	0.0
Grader	No	40	85.0		440.0	0.0
Pickup Truck	No	40		75.0	390.0	0.0
Front End Loader	No	40		79.1	390.0	0.0
Backhoe	No	40		77.6	540.0	0.0
Dozer	No	40		81.7	490.0	0.0
Dozer	No	40		81.7	540.0	0.0
Dozer	No	40		81.7	490.0	0.0

Results

Noise Limit Exceedance (dBA)	Noise Limits (dBA)	
	Day	Evening
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30-Grading-Crushing at Rockwood Road (390) - unmitigated.txt

Night	Day		Evening		Night				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Drill Rig	Truck		59.3	52.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Drill Rig	Truck		57.7	50.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			66.2	62.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			65.1	61.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			61.2	57.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			60.6	56.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			59.0	55.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			58.8	54.8	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			59.6	55.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			58.3	54.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rock Drill			61.0	54.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			61.8	57.8	N/A	N/A	N/A	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			60.9	56.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader			66.1	62.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pickup Truck			57.2	53.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader			61.3	57.3	N/A	N/A	N/A	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			56.9	52.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			61.8	57.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			61.0	57.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			61.8	57.9	N/A	N/A	N/A	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			66.2	70.5	N/A	N/A	N/A	N/A	N/A

N/A 30-Grading-Crushing at Rockwood Road (390) - unmitigated.txt
N/A N/A N/A N/A N/A N/A

31-Grading-Crushing at Rockwood Road (390) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Grading-Crushing at Rockwood Road (390) - mitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Drill Rig Truck	No	20		79.1	490.0	3.0
Drill Rig Truck	No	20		79.1	590.0	3.0
Tractor	No	40	84.0		390.0	3.0
Tractor	No	40	84.0		440.0	3.0
Tractor	No	40	84.0		690.0	3.0
Tractor	No	40	84.0		740.0	3.0
Tractor	No	40	84.0		890.0	3.0
Tractor	No	40	84.0		910.0	3.0
Tractor	No	40	84.0		827.0	3.0
Tractor	No	40	84.0		960.0	3.0
Rock Drill	No	20		81.0	500.0	3.0
Excavator	No	40		80.7	440.0	3.0
Excavator	No	40		80.7	490.0	3.0
Grader	No	40	85.0		440.0	3.0
Pickup Truck	No	40		75.0	390.0	3.0
Front End Loader	No	40		79.1	390.0	3.0
Backhoe	No	40		77.6	540.0	3.0
Dozer	No	40		81.7	490.0	3.0
Dozer	No	40		81.7	540.0	3.0
Dozer	No	40		81.7	490.0	3.0

Results

Noise Limit Exceedance (dBA)	Noise Limits (dBA)	
	Day	Evening
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31-Grading-Crushing at Rockwood Road (390) - mitigated.txt

Night	Day		Evening		Night				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Drill Rig	Truck		56.3	49.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Drill Rig	Truck		54.7	47.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			63.2	59.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			62.1	58.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			58.2	54.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			57.6	53.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			56.0	52.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			55.8	51.8	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			56.6	52.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			55.3	51.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rock Drill			58.0	51.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			58.8	54.8	N/A	N/A	N/A	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			57.9	53.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader			63.1	59.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pickup Truck			54.2	50.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader			58.3	54.3	N/A	N/A	N/A	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			53.9	49.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			58.8	54.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			58.0	54.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			58.8	54.9	N/A	N/A	N/A	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			63.2	67.5	N/A	N/A	N/A	N/A	N/A

31-Grading-Crushing at Rockwood Road (390) - mitigated.txt
N/A N/A N/A N/A N/A N/A

32-Grading-Crushing at Safari Park (700) - unmitigated.txt

Night	Day		Evening		Night				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Drill Rig	Truck		56.2	49.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Drill Rig	Truck		54.0	47.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			61.1	57.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			60.5	56.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			58.0	54.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			58.0	54.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			58.4	54.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			58.9	54.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			59.4	55.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			58.9	54.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rock Drill			61.0	54.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			57.2	53.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			56.6	52.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader			61.5	57.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pickup Truck			52.1	48.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader			56.2	52.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			54.6	50.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			57.6	53.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			57.1	53.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			57.6	53.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total			61.5	67.0	N/A	N/A	N/A	N/A	N/A

32-Grading-Crushing at Safari Park (700) - unmitigated.txt
N/A N/A N/A N/A N/A N/A

33-Grading-Crushing at Safari Park (700) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Grading-Crushing at Safari Park (700) - mitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Drill Rig Truck	No	20		79.1	700.0	3.0
Drill Rig Truck	No	20		79.1	900.0	3.0
Tractor	No	40	84.0		700.0	3.0
Tractor	No	40	84.0		750.0	3.0
Tractor	No	40	84.0		1000.0	3.0
Tractor	No	40	84.0		1000.0	3.0
Tractor	No	40	84.0		950.0	3.0
Tractor	No	40	84.0		900.0	3.0
Tractor	No	40	84.0		850.0	3.0
Tractor	No	40	84.0		900.0	3.0
Rock Drill	No	20		81.0	500.0	3.0
Excavator	No	40		80.7	750.0	3.0
Excavator	No	40		80.7	800.0	3.0
Grader	No	40	85.0		750.0	3.0
Pickup Truck	No	40		75.0	700.0	3.0
Front End Loader	No	40		79.1	700.0	3.0
Backhoe	No	40		77.6	700.0	3.0
Dozer	No	40		81.7	800.0	3.0
Dozer	No	40		81.7	850.0	3.0
Dozer	No	40		81.7	800.0	3.0

Results

Noise Limit Exceedance (dBA)	Noise Limits (dBA)	
	Day	Evening
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33-Grading-Crushing at Safari Park (700) - mitigated.txt

Night	Day		Evening		Night				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Drill Rig	Truck		53.2	46.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Drill Rig	Truck		51.0	44.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			58.1	54.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			57.5	53.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			55.0	51.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			55.0	51.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			55.4	51.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			55.9	51.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			56.4	52.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			55.9	51.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rock Drill			58.0	51.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			54.2	50.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			53.6	49.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader			58.5	54.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pickup Truck			49.1	45.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader			53.2	49.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			51.6	47.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			54.6	50.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			54.1	50.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			54.6	50.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total			58.5	64.0	N/A	N/A	N/A	N/A	N/A

33-Grading-Crushing at Safari Park (700) - mitigated.txt
N/A N/A N/A N/A N/A N/A

34-Grading-Crushing at Barelin Road (330) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Grading-Crushing at Bareline Road (330) - unmitigated

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Drill Rig Truck	No	20		79.1	480.0	0.0
Drill Rig Truck	No	20		79.1	580.0	0.0
Tractor	No	40	84.0		330.0	0.0
Tractor	No	40	84.0		380.0	0.0
Tractor	No	40	84.0		630.0	0.0
Tractor	No	40	84.0		730.0	0.0
Tractor	No	40	84.0		780.0	0.0
Tractor	No	40	84.0		780.0	0.0
Tractor	No	40	84.0		730.0	0.0
Tractor	No	40	84.0		730.0	0.0
Rock Drill	No	20		81.0	530.0	0.0
Excavator	No	40		80.7	380.0	0.0
Excavator	No	40		80.7	430.0	0.0
Grader	No	40	85.0		380.0	0.0
Pickup Truck	No	40		75.0	330.0	0.0
Front End Loader	No	40		79.1	330.0	0.0
Backhoe	No	40		77.6	430.0	0.0
Dozer	No	40		81.7	430.0	0.0
Dozer	No	40		81.7	430.0	0.0
Dozer	No	40		81.7	330.0	0.0

Results

Noise Limit Exceedance (dBA)	Noise Limits (dBA)	
	Day	Evening
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34-Grading-Crushing at Barelin Road (330) - unmitigated.txt

Night	Day		Evening		Night					
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Drill Rig	Truck		59.5		52.5		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Drill Rig	Truck		57.9		50.9		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			67.6		63.6		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			66.4		62.4		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			62.0		58.0		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			60.7		56.7		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			60.1		56.2		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			60.1		56.2		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			60.7		56.7		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			60.7		56.7		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rock Drill			60.5		53.5		N/A		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			63.1		59.1		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			62.0		58.0		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader			67.4		63.4		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pickup Truck			58.6		54.6		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader			62.7		58.7		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			58.9		54.9		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			63.0		59.0		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			63.0		59.0		N/A		N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			65.3		61.3		N/A		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	67.6		71.9		N/A		N/A	N/A

N/A 34-Grading-Crushing at Barelin Road (330) - unmitigated.txt
N/A N/A N/A N/A N/A N/A

35-Grading-Crushing at Barelin Road (330) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Grading-Crushing at Bareline Road (330) - mitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Drill Rig Truck	No	20		79.1	480.0	3.0
Drill Rig Truck	No	20		79.1	580.0	3.0
Tractor	No	40	84.0		330.0	3.0
Tractor	No	40	84.0		380.0	3.0
Tractor	No	40	84.0		630.0	3.0
Tractor	No	40	84.0		730.0	3.0
Tractor	No	40	84.0		780.0	3.0
Tractor	No	40	84.0		780.0	3.0
Tractor	No	40	84.0		730.0	3.0
Tractor	No	40	84.0		730.0	3.0
Rock Drill	No	20		81.0	530.0	3.0
Excavator	No	40		80.7	380.0	3.0
Excavator	No	40		80.7	430.0	3.0
Grader	No	40	85.0		380.0	3.0
Pickup Truck	No	40		75.0	330.0	3.0
Front End Loader	No	40		79.1	330.0	3.0
Backhoe	No	40		77.6	430.0	3.0
Dozer	No	40		81.7	430.0	3.0
Dozer	No	40		81.7	430.0	3.0
Dozer	No	40		81.7	330.0	3.0

Results

Noise Limit Exceedance (dBA)	Noise Limits (dBA)	
	Day	Evening
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35-Grading-Crushing at Barelin Road (330) - mitigated.txt

Night	Day		Evening		Night				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Drill Rig	Truck		56.5	49.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Drill Rig	Truck		54.9	47.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			64.6	60.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			63.4	59.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			59.0	55.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			57.7	53.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			57.1	53.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			57.1	53.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			57.7	53.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			57.7	53.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rock Drill			57.5	50.5	N/A	N/A	N/A	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			60.1	56.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			59.0	55.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader			64.4	60.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pickup Truck			55.6	51.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader			59.7	55.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			55.9	51.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			60.0	56.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			60.0	56.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			62.3	58.3	N/A	N/A	N/A	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			64.6	68.9	N/A	N/A	N/A	N/A	N/A

35-Grading-Crushing at Barelin Road (330) - mitigated.txt
N/A N/A N/A N/A N/A N/A

36-Grading-Crushing at Old Wagon Road (350) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Grading-Crushing at Old Wagon Road (350) - unmitigated

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Drill Rig Truck	No	20		79.1	350.0	0.0
Drill Rig Truck	No	20		79.1	450.0	0.0
Tractor	No	40	84.0		350.0	0.0
Tractor	No	40	84.0		400.0	0.0
Tractor	No	40	84.0		450.0	0.0
Tractor	No	40	84.0		500.0	0.0
Tractor	No	40	84.0		550.0	0.0
Tractor	No	40	84.0		350.0	0.0
Tractor	No	40	84.0		400.0	0.0
Tractor	No	40	84.0		450.0	0.0
Rock Drill	No	20		81.0	350.0	0.0
Excavator	No	40		80.7	500.0	0.0
Excavator	No	40		80.7	600.0	0.0
Grader	No	40	85.0		350.0	0.0
Pickup Truck	No	40		75.0	350.0	0.0
Front End Loader	No	40		79.1	450.0	0.0
Backhoe	No	40		77.6	400.0	0.0
Dozer	No	40		81.7	750.0	0.0
Dozer	No	40		81.7	650.0	0.0
Dozer	No	40		81.7	550.0	0.0

Results

Noise Limit Exceedance (dBA)	Noise Limits (dBA)	
	Day	Evening
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36-Grading-Crushing at Old Wagon Road (350) - unmitigated.txt

Night	Day		Evening		Night				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Drill Rig	Truck		62.2	55.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Drill Rig	Truck		60.1	53.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			67.1	63.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			65.9	62.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			64.9	60.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			64.0	60.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			63.2	59.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			67.1	63.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			65.9	62.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			64.9	60.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rock Drill			64.1	57.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			60.7	56.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			59.1	55.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader			68.1	64.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pickup Truck			58.1	54.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader			60.0	56.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			59.5	55.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			58.1	54.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			59.4	55.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			60.8	56.9	N/A	N/A	N/A	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			68.1	72.6	N/A	N/A	N/A	N/A	N/A

N/A 36-Grading-Crushing at Old Wagon Road (350) - unmitigated.txt
N/A N/A N/A N/A N/A N/A

37-Grading-Crushing at Old Wagon Road (350) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Grading-Crushing at Old Wagon Road (350) - mitigated

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Drill Rig Truck	No	20		79.1	350.0	3.0
Drill Rig Truck	No	20		79.1	450.0	3.0
Tractor	No	40	84.0		350.0	3.0
Tractor	No	40	84.0		400.0	3.0
Tractor	No	40	84.0		450.0	3.0
Tractor	No	40	84.0		500.0	3.0
Tractor	No	40	84.0		550.0	3.0
Tractor	No	40	84.0		350.0	3.0
Tractor	No	40	84.0		400.0	3.0
Tractor	No	40	84.0		450.0	3.0
Rock Drill	No	20		81.0	350.0	3.0
Excavator	No	40		80.7	500.0	3.0
Excavator	No	40		80.7	600.0	3.0
Grader	No	40	85.0		350.0	3.0
Pickup Truck	No	40		75.0	350.0	3.0
Front End Loader	No	40		79.1	450.0	3.0
Backhoe	No	40		77.6	400.0	3.0
Dozer	No	40		81.7	750.0	3.0
Dozer	No	40		81.7	650.0	3.0
Dozer	No	40		81.7	550.0	3.0

Results

Noise Limit Exceedance (dBA)	Noise Limits (dBA)	
	Day	Evening
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37-Grading-Crushing at Old Wagon Road (350) - mitigated.txt

Night	Day		Evening		Night				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Drill Rig	Truck		59.2	52.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Drill Rig	Truck		57.1	50.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			64.1	60.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			62.9	59.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			61.9	57.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			61.0	57.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			60.2	56.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			64.1	60.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			62.9	59.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			61.9	57.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rock Drill			61.1	54.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			57.7	53.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			56.1	52.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader			65.1	61.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pickup Truck			55.1	51.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader			57.0	53.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			56.5	52.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			55.1	51.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			56.4	52.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			57.8	53.9	N/A	N/A	N/A	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			65.1	69.6	N/A	N/A	N/A	N/A	N/A

N/A 37-Grading-Crushing at Old Wagon Road (350) - mitigated.txt
N/A N/A N/A N/A N/A N/A

38-Grading-Crushing at Old Wagon Road (400) - unmitigated.txt
 Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 01/13/2017
 Case Description: Grading-Crushing at Old Wagon Road (400) - unmitigated

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Drill Rig Truck	No	20		79.1	400.0	0.0
Drill Rig Truck	No	20		79.1	500.0	0.0
Tractor	No	40	84.0		400.0	0.0
Tractor	No	40	84.0		450.0	0.0
Tractor	No	40	84.0		500.0	0.0
Tractor	No	40	84.0		550.0	0.0
Tractor	No	40	84.0		600.0	0.0
Tractor	No	40	84.0		400.0	0.0
Tractor	No	40	84.0		450.0	0.0
Tractor	No	40	84.0		500.0	0.0
Rock Drill	No	20		81.0	400.0	0.0
Excavator	No	40		80.7	550.0	0.0
Excavator	No	40		80.7	650.0	0.0
Grader	No	40	85.0		400.0	0.0
Pickup Truck	No	40		75.0	400.0	0.0
Front End Loader	No	40		79.1	500.0	0.0
Backhoe	No	40		77.6	450.0	0.0
Dozer	No	40		81.7	800.0	0.0
Dozer	No	40		81.7	700.0	0.0
Dozer	No	40		81.7	600.0	0.0

Results

Noise Limit Exceedance (dBA)	Noise Limits (dBA)	
	Day	Evening
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38-Grading-Crushing at Old Wagon Road (400) - unmitigated.txt

Night	Day		Evening		Night				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Drill Rig	Truck		61.1	54.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Drill Rig	Truck		59.1	52.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			65.9	62.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			64.9	60.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			64.0	60.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			63.2	59.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			62.4	58.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			65.9	62.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			64.9	60.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			64.0	60.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rock Drill			62.9	55.9	N/A	N/A	N/A	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			59.9	55.9	N/A	N/A	N/A	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			58.4	54.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader			66.9	63.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pickup Truck			56.9	53.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader			59.1	55.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			58.5	54.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			57.6	53.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			58.7	54.8	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			60.1	56.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total			66.9	71.6	N/A	N/A	N/A	N/A	N/A

N/A 38-Grading-Crushing at Old Wagon Road (400) - unmitigated.txt
N/A N/A N/A N/A N/A N/A

39-Grading-Crushing at Old Wagon Road (400) - mitigated.txt
 Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 01/13/2017
 Case Description: Grading-Crushing at Old Wagon Road (400) - mitigated

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Drill Rig Truck	No	20		79.1	400.0	3.0
Drill Rig Truck	No	20		79.1	500.0	3.0
Tractor	No	40	84.0		400.0	3.0
Tractor	No	40	84.0		450.0	3.0
Tractor	No	40	84.0		500.0	3.0
Tractor	No	40	84.0		550.0	3.0
Tractor	No	40	84.0		600.0	3.0
Tractor	No	40	84.0		400.0	3.0
Tractor	No	40	84.0		450.0	3.0
Tractor	No	40	84.0		500.0	3.0
Rock Drill	No	20		81.0	400.0	3.0
Excavator	No	40		80.7	550.0	3.0
Excavator	No	40		80.7	650.0	3.0
Grader	No	40	85.0		400.0	3.0
Pickup Truck	No	40		75.0	400.0	3.0
Front End Loader	No	40		79.1	500.0	3.0
Backhoe	No	40		77.6	450.0	3.0
Dozer	No	40		81.7	800.0	3.0
Dozer	No	40		81.7	700.0	3.0
Dozer	No	40		81.7	600.0	3.0

Results

Noise Limit Exceedance (dBA)	Noise Limits (dBA)	
	Day	Evening
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39-Grading-Crushing at Old Wagon Road (400) - mitigated.txt

Night	Day		Evening		Night					
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Drill Rig	Truck		58.1		51.1		N/A		N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Drill Rig	Truck		56.1		49.2		N/A		N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			62.9		59.0		N/A		N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			61.9		57.9		N/A		N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			61.0		57.0		N/A		N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			60.2		56.2		N/A		N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			59.4		55.4		N/A		N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			62.9		59.0		N/A		N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			61.9		57.9		N/A		N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			61.0		57.0		N/A		N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rock Drill			59.9		52.9		N/A		N/A	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			56.9		52.9		N/A		N/A	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			55.4		51.5		N/A		N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader			63.9		60.0		N/A		N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pickup Truck			53.9		50.0		N/A		N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader			56.1		52.1		N/A		N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			55.5		51.5		N/A		N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			54.6		50.6		N/A		N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			55.7		51.8		N/A		N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			57.1		53.1		N/A		N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total			63.9		68.6		N/A		N/A	N/A

N/A 39-Grading-Crushing at Old Wagon Road (400) - mitigated.txt
N/A N/A N/A N/A N/A N/A

40-Road Construction at Ferncreek Lane (108) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Road Construction Noise at Ferncreek Lane (108) - unmitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	208.0	0.0
Front End Loader	No	40		79.1	108.0	0.0
Front End Loader	No	40		79.1	158.0	0.0
Tractor	No	40	84.0		208.0	0.0
Tractor	No	40	84.0		108.0	0.0
Tractor	No	40	84.0		208.0	0.0

Results

		Noise Limit Exceedance (dBA)					Noise Limits (dBA)		
		Calculated (dBA)		Day		Evening			
Night		Day	Evening		Night				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
Front End Loader	N/A	66.7	62.7	N/A	N/A	N/A	N/A	N/A	
Front End Loader	N/A	72.4	68.4	N/A	N/A	N/A	N/A	N/A	
Front End Loader	N/A	69.1	65.1	N/A	N/A	N/A	N/A	N/A	

40-Road Construction at Ferncreek Lane (108) - unmitigated.txt

Tractor			71.6	67.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			77.3	73.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			71.6	67.6	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	77.3	76.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

41-Road Construction at Ferncreek Lane (108) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Road construction Noise at Ferncreek Lane (108) - mitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	208.0	3.0
Front End Loader	No	40		79.1	108.0	3.0
Front End Loader	No	40		79.1	158.0	3.0
Tractor	No	40	84.0		208.0	3.0
Tractor	No	40	84.0		108.0	3.0
Tractor	No	40	84.0		208.0	3.0

Results

		Noise Limit Exceedance (dBA)					Noise Limits (dBA)		
		Calculated (dBA)		Day		Evening			
Night		Day	Evening		Night				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
Front End Loader	N/A	63.7	59.7	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Front End Loader	N/A	69.4	65.4	N/A	N/A	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	N/A	66.1	62.1	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

41-Road Construction at Ferncreek Lane (108) - mitigated.txt

Tractor			68.6	64.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			74.3	70.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			68.6	64.6	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	74.3	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			

42-Road Construction at Sprucewood Lane (133) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Road Construction Noise at Sprucewood Lane (133) - unmitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	133.0	0.0
Front End Loader	No	40		79.1	183.0	0.0
Front End Loader	No	40		79.1	233.0	0.0
Tractor	No	40	84.0		133.0	0.0
Tractor	No	40	84.0		183.0	0.0
Tractor	No	40	84.0		233.0	0.0

Results

		Noise Limit Exceedance (dBA)					Noise Limits (dBA)		
		Calculated (dBA)		Day		Evening			
Night		Day	Evening		Night				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
Front End Loader	N/A	70.6	66.6	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Front End Loader	N/A	67.8	63.9	N/A	N/A	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	N/A	65.7	61.8	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

42-Road Construction at Sprucewood Lane (133) - unmitigated.txt

Tractor			75.5	71.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			72.7	68.8	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			70.6	66.7	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	75.5	75.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

43-Road Construction at Sprucewood Lane (133) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Road Construction Noise at Sprucewood Lane (133) - mitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	133.0	3.0
Front End Loader	No	40		79.1	183.0	3.0
Front End Loader	No	40		79.1	233.0	3.0
Tractor	No	40	84.0		133.0	3.0
Tractor	No	40	84.0		183.0	3.0
Tractor	No	40	84.0		233.0	3.0

Results

		Noise Limit Exceedance (dBA)					Noise Limits (dBA)		
		Calculated (dBA)		Day		Evening			
Night		Day	Evening		Night				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
Front End Loader	N/A	67.6	63.6	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Front End Loader	N/A	64.8	60.9	N/A	N/A	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	N/A	62.7	58.8	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

43-Road Construction at Sprucewood Lane (133) - mitigated.txt

Tractor			72.5	68.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			69.7	65.8	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			67.6	63.7	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	72.5	72.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

44-Road Construction at Wynwood Court (220) - unmitigated.txt
 Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 01/13/2017
 Case Description: Road Construction Noise at Wynwood Court (220) - unmitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	220.0	3.0
Front End Loader	No	40		79.1	270.0	3.0
Front End Loader	No	40		79.1	320.0	3.0
Tractor	No	40	84.0		220.0	0.0
Tractor	No	40	84.0		270.0	0.0
Tractor	No	40	84.0		320.0	0.0

Results

		Noise Limit Exceedance (dBA)			Noise Limits (dBA)				
					Day		Evening		
		Calculated (dBA)			Night				
Night		Day	Evening		Night				
Equipment	Leq	Lmax	Leq	Lmax	Lmax	Leq	Lmax	Leq	Lmax
Front End Loader		63.2	59.3		N/A	N/A	N/A	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		61.5	57.5		N/A	N/A	N/A	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		60.0	56.0		N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

44-Road Construction at Wynwood Court (220) - unmitigated.txt

Tractor			71.1	67.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			69.4	65.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			67.9	63.9	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	71.1	71.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

45-Road Construction at Wynwood Court (220) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Road Construction Noise at Wynwood Court (220) - unmitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	220.0	3.0
Front End Loader	No	40		79.1	270.0	3.0
Front End Loader	No	40		79.1	320.0	3.0
Tractor	No	40	84.0		220.0	3.0
Tractor	No	40	84.0		270.0	3.0
Tractor	No	40	84.0		320.0	3.0

Results

Equipment	Night	Day	Calculated (dBA)		Day		Evening		Lmax
			Day	Evening	Night	Evening			
Front End Loader	N/A	N/A	63.2	59.3	N/A	N/A	N/A	N/A	N/A
Front End Loader	N/A	N/A	61.5	57.5	N/A	N/A	N/A	N/A	N/A
Front End Loader	N/A	N/A	60.0	56.0	N/A	N/A	N/A	N/A	N/A

45-Road Construction at Wynwood Court (220) - mitigated.txt

Tractor			68.1	64.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			66.4	62.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			64.9	60.9	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	68.1	68.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

46-Road Construction at Walden Glen (327) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Road Construction Noise at Walden Glen (327) - unmitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	327.0	0.0
Front End Loader	No	40		79.1	377.0	0.0
Front End Loader	No	40		79.1	427.0	0.0
Tractor	No	40	84.0		327.0	0.0
Tractor	No	40	84.0		377.0	0.0
Tractor	No	40	84.0		427.0	0.0

Results

Equipment	Night	Day	Calculated (dBA)		Day		Evening		Lmax
			Lmax	Leq	Night	Evening	Lmax	Leq	
Front End Loader	N/A	N/A	62.8	58.8	N/A	N/A	N/A	N/A	N/A
Front End Loader	N/A	N/A	61.6	57.6	N/A	N/A	N/A	N/A	N/A
Front End Loader	N/A	N/A	60.5	56.5	N/A	N/A	N/A	N/A	N/A
Tractor	N/A	N/A	67.7	63.7	N/A	N/A	N/A	N/A	N/A

46-Road Construction at Walden Glen (327) - unmitigated.txt

N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			66.5	62.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			65.4	61.4	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		67.7	68.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

47-Road Construction at Walden Glen (327) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/13/2017
 Case Description: Road Construction Noise at Walden Glen (327) - mitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	327.0	3.0
Front End Loader	No	40		79.1	377.0	3.0
Front End Loader	No	40		79.1	427.0	3.0
Tractor	No	40	84.0		327.0	3.0
Tractor	No	40	84.0		377.0	3.0
Tractor	No	40	84.0		427.0	3.0

Results

		Noise Limit Exceedance (dBA)				Noise Limits (dBA)			
		Calculated (dBA)		Day		Evening			
		Day	Evening	Day	Night				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
Front End Loader		59.8	55.8	N/A	N/A	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		58.6	54.6	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Front End Loader		57.5	53.5	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Tractor		64.7	60.7	N/A	N/A	N/A	N/A	N/A	

47-Road Construction at Walden Glen (327) - mitigated.txt

N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			63.5	59.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			62.4	58.4	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		64.7	65.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

48-Road Construction at Rockwood Road (390) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Road Construction Noise at Rockwood Road (390) - unmitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	390.0	0.0
Front End Loader	No	40		79.1	440.0	0.0
Front End Loader	No	40		79.1	490.0	0.0
Tractor	No	40	84.0		390.0	0.0
Tractor	No	40	84.0		440.0	0.0
Tractor	No	40	84.0		490.0	0.0

Results

		Noise Limit Exceedance (dBA)				Noise Limits (dBA)			
		Calculated (dBA)		Day		Evening			
Night		Day	Evening	Night	Night	Evening	Evening		
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
Front End Loader	N/A	61.3	57.3	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	N/A	60.2	56.2	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	N/A	59.3	55.3	N/A	N/A	N/A	N/A	N/A	N/A

48-Road Construction at Rockwood Road (390) - unmitigated.txt

Tractor			66.2	62.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			65.1	61.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			64.2	60.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
		Total	66.2	67.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

49-Road Construction at Rockwood Road (390) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Road Construction Noise at Rockwood Road (390) - mitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	390.0	3.0
Front End Loader	No	40		79.1	440.0	3.0
Front End Loader	No	40		79.1	490.0	3.0
Tractor	No	40	84.0		390.0	3.0
Tractor	No	40	84.0		440.0	3.0
Tractor	No	40	84.0		490.0	3.0

Results

		Noise Limit Exceedance (dBA)				Noise Limits (dBA)			
		Calculated (dBA)		Day		Evening			
		Day	Evening	Day	Night				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Front End Loader	N/A	58.3	54.3	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	N/A	57.2	53.2	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	N/A	56.3	52.3	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	N/A	63.2	59.2	N/A	N/A	N/A	N/A	N/A	N/A

49-Road Construction at Rockwood Road (390) - mitigated.txt

N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			62.1	58.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			61.2	57.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	Total		63.2	64.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

50-Road Construction at Safari Park (700) - unmitigated.txt
 Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 01/17/2017
 Case Description: Road Construction Noise at Safari Park (700) - unmitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	700.0	0.0
Front End Loader	No	40		79.1	700.0	0.0
Front End Loader	No	40		79.1	700.0	0.0
Tractor	No	40	84.0		700.0	0.0
Tractor	No	40	84.0		700.0	0.0
Tractor	No	40	84.0		700.0	0.0

Results

		Noise Limit Exceedance (dBA)					Noise Limits (dBA)		
		Calculated (dBA)		Day		Evening			
		Day	Evening		Night				
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Equipment	Leq	Lmax	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Front End Loader			56.2	52.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader			56.2	52.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader			56.2	52.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			61.1	57.1	N/A	N/A	N/A	N/A	N/A

50-Road Construction at Safari Park (700) - unmitigated.txt

N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			61.1	57.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			61.1	57.1	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		61.1	63.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

51-Road Construction at Safari Park (700) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Road Construction Noise at Safari Park (700) - mitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	700.0	3.0
Front End Loader	No	40		79.1	700.0	3.0
Front End Loader	No	40		79.1	700.0	3.0
Tractor	No	40	84.0		700.0	3.0
Tractor	No	40	84.0		700.0	3.0
Tractor	No	40	84.0		700.0	3.0

Results

		Noise Limit Exceedance (dBA)				Noise Limits (dBA)			
		Calculated (dBA)		Day		Evening			
Night		Day	Evening	Night	Night				
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Front End Loader	N/A	53.2	49.2	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	N/A	53.2	49.2	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	N/A	53.2	49.2	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	N/A	58.1	54.1	N/A	N/A	N/A	N/A	N/A	N/A

51-Road Construction at Safari Park (700) - mitigated.txt

N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			58.1	54.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			58.1	54.1	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		58.1	60.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

52-Building Construction at Barelin Road (330) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Building Construction Noise at Barelin Road (330) - unmitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Generator	No	50		80.6	330.0	0.0
Front End Loader	No	40		79.1	330.0	0.0
Front End Loader	No	40		79.1	330.0	0.0
Front End Loader	No	40		79.1	330.0	0.0
Welder / Torch	No	40		74.0	330.0	0.0
Tractor	No	40	84.0		330.0	0.0
Tractor	No	40	84.0		330.0	0.0
Tractor	No	40	84.0		330.0	0.0

Results

Equipment	Night	Day	Calculated (dBA)		Day		Evening		Lmax
			Day	Evening	Night	Evening			
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Generator	N/A	N/A	64.2	61.2	N/A	N/A	N/A	N/A	N/A
Front End Loader	N/A	N/A	62.7	58.7	N/A	N/A	N/A	N/A	N/A

52-Building Construction at Barelin Road (330) - unmitigated.txt

Front End Loader			62.7	58.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader			62.7	58.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch			57.6	53.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			67.6	63.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			67.6	63.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			67.6	63.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	67.6	70.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

53-Building Construction at Barelin Road (330) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Building Construction Noise at Barelin Road (330) - mitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	330.0	3.0
Front End Loader	No	40		79.1	330.0	3.0
Front End Loader	No	40		79.1	330.0	3.0
Front End Loader	No	40		79.1	330.0	3.0
Welder / Torch	No	40		74.0	330.0	3.0
Tractor	No	40	84.0		330.0	3.0
Tractor	No	40	84.0		330.0	3.0
Tractor	No	40	84.0		330.0	3.0

Results

Equipment	Night	Day	Calculated (dBA)		Day		Evening		Lmax
			Day	Evening	Night	Evening			
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Generator	N/A	N/A	61.2	58.2	N/A	N/A	N/A	N/A	N/A
Front End Loader	N/A	N/A	59.7	55.7	N/A	N/A	N/A	N/A	N/A

53-Building Construction at Barelin Road (330) - mitigated.txt

Front End Loader			59.7	55.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader			59.7	55.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch			54.6	50.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			64.6	60.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			64.6	60.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			64.6	60.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	64.6	67.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

54-Building Construction at Old Wagon Road (350) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Construction Noise at Old Wagon Road (350) - unmitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Generator	No	50		80.6	350.0	0.0
Front End Loader	No	40		79.1	350.0	0.0
Front End Loader	No	40		79.1	350.0	0.0
Front End Loader	No	40		79.1	350.0	0.0
Welder / Torch	No	40		74.0	350.0	0.0
Tractor	No	40	84.0		350.0	0.0
Tractor	No	40	84.0		350.0	0.0
Tractor	No	40	84.0		350.0	0.0

Results

Equipment	Night	Day	Calculated (dBA)		Day		Evening		Lmax
			Day	Evening	Day	Night	Lmax	Leq	
Generator	N/A	N/A	63.7	60.7	N/A	N/A	N/A	N/A	N/A
Front End Loader	N/A	N/A	62.2	58.2	N/A	N/A	N/A	N/A	N/A
Front End Loader	N/A	N/A	62.2	58.2	N/A	N/A	N/A	N/A	N/A

54-Building Construction at Old Wagon Road (350) - unmitigated.txt

N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Front End Loader			62.2	58.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Welder / Torch			57.1	53.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			67.1	63.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			67.1	63.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			67.1	63.1	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	67.1	69.8	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

55-Building Construction at Old Wagon Road (350) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Construction Noise at Old Wagon Road (350) - mitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Generator	No	50		80.6	350.0	3.0
Front End Loader	No	40		79.1	350.0	3.0
Front End Loader	No	40		79.1	350.0	3.0
Front End Loader	No	40		79.1	350.0	3.0
Welder / Torch	No	40		74.0	350.0	3.0
Tractor	No	40	84.0		350.0	3.0
Tractor	No	40	84.0		350.0	3.0
Tractor	No	40	84.0		350.0	3.0

Results

Equipment	Night	Day	Calculated (dBA)		Day		Evening		Lmax
			Day	Evening	Day	Night	Lmax	Leq	
Generator	N/A	N/A	60.7	57.7	N/A	N/A	N/A	N/A	N/A
Front End Loader	N/A	N/A	59.2	55.2	N/A	N/A	N/A	N/A	N/A
Front End Loader	N/A	N/A	59.2	55.2	N/A	N/A	N/A	N/A	N/A

55-Building Construction at Old Wagon Road (350) - mitigated.txt

N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Front End Loader			59.2	55.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Welder / Torch			54.1	50.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			64.1	60.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			64.1	60.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			64.1	60.1	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	64.1	66.8	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

56-Building Construction at Old Wagon Road (400) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Construction Noise at Old Wagon Road (400) - unmitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Generator	No	50		80.6	400.0	0.0
Front End Loader	No	40		79.1	400.0	0.0
Front End Loader	No	40		79.1	400.0	0.0
Front End Loader	No	40		79.1	400.0	0.0
Welder / Torch	No	40		74.0	400.0	0.0
Tractor	No	40	84.0		400.0	0.0
Tractor	No	40	84.0		400.0	0.0
Tractor	No	40	84.0		400.0	0.0

Results

Equipment	Night	Day	Calculated (dBA)		Day		Evening		Lmax
			Day	Evening	Day	Night	Lmax	Leq	
Generator	N/A	N/A	62.6	59.6	N/A	N/A	N/A	N/A	N/A
Front End Loader	N/A	N/A	61.0	57.1	N/A	N/A	N/A	N/A	N/A
Front End Loader	N/A	N/A	61.0	57.1	N/A	N/A	N/A	N/A	N/A

56-Building Construction at Old Wagon Road (400) - unmitigated.txt

N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Front End Loader			61.0	57.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Welder / Torch			55.9	52.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			65.9	62.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			65.9	62.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			65.9	62.0	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	65.9	68.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

58-Paving at Ferncreek Lane (108) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Paving Noise at Ferncreek Lane (108) - unmitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Equipment

Description	Impact Device	Usage (%)	Spec	Actual	Receptor Distance (feet)	Estimated Shielding (dBA)
			Lmax (dBA)	Lmax (dBA)		
Grader	No	40	85.0		108.0	0.0
Grader	No	40	85.0		208.0	0.0
Paver	No	50		77.2	208.0	0.0
Pavement Scarafier	No	20	85.0		208.0	0.0
Roller	No	20		80.0	108.0	0.0
Backhoe	No	40		77.6	158.0	0.0
Roller	No	20		80.0	208.0	0.0
Roller	No	20		80.0	208.0	0.0
Roller	No	20		80.0	158.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Day	Calculated (dBA)		Day		Evening		Lmax
			Leq	Lmax	Leq	Lmax	Leq	Lmax	
Grader	N/A	N/A	78.3	74.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	N/A	N/A	72.6	68.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

58-Paving at Ferncreek Lane (108) - unmitigated.txt

Paver			64.8	61.8	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier			72.6	65.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			73.3	66.3	N/A	N/A	N/A	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			67.6	63.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			67.6	60.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			67.6	60.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			70.0	63.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	78.3	77.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

59-Paving at Ferncreek Lane (108) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Paving Noise at Ferncreek Lane (108) - mitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Equipment

Description	Impact Device	Usage (%)	Spec	Actual	Receptor Distance (feet)	Estimated Shielding (dBA)
			Lmax (dBA)	Lmax (dBA)		
Grader	No	40	85.0		108.0	3.0
Grader	No	40	85.0		208.0	3.0
Paver	No	50		77.2	208.0	3.0
Pavement Scarafier	No	20	85.0		208.0	3.0
Roller	No	20		80.0	108.0	3.0
Backhoe	No	40		77.6	158.0	3.0
Roller	No	20		80.0	208.0	3.0
Roller	No	20		80.0	208.0	3.0
Roller	No	20		80.0	158.0	3.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Night	Day	Calculated (dBA)		Day		Evening		Lmax
		Day	Evening	Night	Evening			
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Grader	N/A	N/A	75.3	71.3	N/A	N/A	N/A	N/A
Grader	N/A	N/A	69.6	65.6	N/A	N/A	N/A	N/A

59-Paving at Ferncreek Lane (108) - mitigated.txt

Paver			61.8	58.8	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier			69.6	62.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			70.3	63.3	N/A	N/A	N/A	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			64.6	60.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			64.6	57.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			64.6	57.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			67.0	60.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	75.3	74.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

60-Paving at Sprucewood Lane (133) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Paving Noise at Sprucewood Lane (133) - unmitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Grader	No	40	85.0		133.0	0.0
Grader	No	40	85.0		233.0	0.0
Paver	No	50		77.2	233.0	0.0
Pavement Scarafier	No	20	85.0		233.0	0.0
Roller	No	20		80.0	133.0	0.0
Backhoe	No	40		77.6	183.0	0.0
Roller	No	20		80.0	233.0	0.0
Roller	No	20		80.0	233.0	0.0
Roller	No	20		80.0	183.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Night	Calculated (dBA)				Day		Evening		Lmax
	Day	Evening		Night	Night	Lmax	Leq		
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Grader	N/A	N/A	76.5	72.5	N/A	N/A	N/A	N/A	N/A
Grader	N/A	N/A	71.6	67.7	N/A	N/A	N/A	N/A	N/A

60-Paving at Sprucewood Lane (133) - unmitigated.txt

Paver			63.9	60.8	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier			71.6	64.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			71.5	64.5	N/A	N/A	N/A	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			66.3	62.3	N/A	N/A	N/A	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			66.6	59.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			66.6	59.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			68.7	61.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	76.5	75.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

62-Paving at Wynwood Court (220) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Paving Noise at Wynwood Court (220) - unmitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Grader	No	40	85.0		220.0	0.0
Grader	No	40	85.0		320.0	0.0
Paver	No	50		77.2	320.0	0.0
Pavement Scarafier	No	20	85.0		320.0	0.0
Roller	No	20		80.0	220.0	0.0
Backhoe	No	40		77.6	270.0	0.0
Roller	No	20		80.0	320.0	0.0
Roller	No	20		80.0	320.0	0.0
Roller	No	20		80.0	270.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Day	Calculated (dBA)		Day		Evening		Lmax
			Day	Evening	Day	Night	Lmax	Leq	
Grader	N/A	N/A	72.1	68.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	N/A	N/A	68.9	64.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

62-Paving at Wynwood Court (220) - unmitigated.txt

Paver			61.1	58.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier			68.9	61.9	N/A	N/A	N/A	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			67.1	60.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			62.9	58.9	N/A	N/A	N/A	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			63.9	56.9	N/A	N/A	N/A	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			63.9	56.9	N/A	N/A	N/A	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			65.4	58.4	N/A	N/A	N/A	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	72.1	71.8	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

63-Paving at Wynwood Court (220) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Paving Noise at Wynwood Court (220) - mitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Grader	No	40	85.0		220.0	3.0
Grader	No	40	85.0		320.0	3.0
Paver	No	50		77.2	320.0	3.0
Pavement Scarafier	No	20	85.0		320.0	3.0
Roller	No	20		80.0	220.0	3.0
Backhoe	No	40		77.6	270.0	3.0
Roller	No	20		80.0	320.0	3.0
Roller	No	20		80.0	320.0	3.0
Roller	No	20		80.0	270.0	3.0

Results

Night	Noise Limit Exceedance (dBA)					Noise Limits (dBA)			
	Day	Calculated (dBA)		Day	Evening	Day	Evening	Evening	
		Day	Evening	Night					
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Grader	N/A	N/A	69.1	65.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	N/A	N/A	65.9	61.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

63-Paving at Wynwood Court (220) - mitigated.txt

Paver			58.1	55.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier			65.9	58.9	N/A	N/A	N/A	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			64.1	57.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			59.9	55.9	N/A	N/A	N/A	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			60.9	53.9	N/A	N/A	N/A	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			60.9	53.9	N/A	N/A	N/A	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			62.4	55.4	N/A	N/A	N/A	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	69.1	68.8	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

64-Paving at Walden Glen (327) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Paving Noise at Walden Glen (327) - unmitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Grader	No	40	85.0		327.0	0.0
Grader	No	40	85.0		427.0	0.0
Paver	No	50		77.2	427.0	0.0
Pavement Scarafier	No	20	85.0		427.0	0.0
Roller	No	20		80.0	327.0	0.0
Backhoe	No	40		77.6	377.0	0.0
Roller	No	20		80.0	427.0	0.0
Roller	No	20		80.0	427.0	0.0
Roller	No	20		80.0	327.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Day	Calculated (dBA)		Day		Evening		Lmax
			Day	Evening	Day	Night	Lmax	Leq	
Grader	N/A	N/A	68.7	64.7	N/A	N/A	N/A	N/A	N/A
Grader	N/A	N/A	66.4	62.4	N/A	N/A	N/A	N/A	N/A

64-Paving at Walden Glen (327) - unmitigated.txt

Paver			58.6	55.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier			66.4	59.4	N/A	N/A	N/A	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			63.7	56.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			60.0	56.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			61.4	54.4	N/A	N/A	N/A	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			61.4	54.4	N/A	N/A	N/A	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			63.7	56.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	68.7	68.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

65-Paving at Walden Glen (327) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Paving Noise at Walden Glen (327) - mitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Grader	No	40	85.0		327.0	3.0
Grader	No	40	85.0		427.0	3.0
Paver	No	50		77.2	427.0	3.0
Pavement Scarafier	No	20	85.0		427.0	3.0
Roller	No	20		80.0	327.0	3.0
Backhoe	No	40		77.6	377.0	3.0
Roller	No	20		80.0	427.0	3.0
Roller	No	20		80.0	427.0	3.0
Roller	No	20		80.0	327.0	3.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Day	Calculated (dBA)		Day		Evening		Lmax
			Day	Evening	Day	Night	Lmax	Leq	
Grader	N/A	N/A	65.7	61.7	N/A	N/A	N/A	N/A	N/A
Grader	N/A	N/A	63.4	59.4	N/A	N/A	N/A	N/A	N/A

65-Paving at Walden Glen (327) - mitigated.txt

Paver			55.6	52.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier			63.4	56.4	N/A	N/A	N/A	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			60.7	53.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			57.0	53.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			58.4	51.4	N/A	N/A	N/A	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			58.4	51.4	N/A	N/A	N/A	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			60.7	53.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	65.7	65.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

66-Paving at Rockwood Road (390) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Paving Noise at Rockwood Road (390) - unmitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Grader	No	40	85.0		390.0	0.0
Grader	No	40	85.0		440.0	0.0
Paver	No	50		77.2	440.0	0.0
Pavement Scarafier	No	20	85.0		440.0	0.0
Roller	No	20		80.0	390.0	0.0
Backhoe	No	40		77.6	390.0	0.0
Roller	No	20		80.0	390.0	0.0
Roller	No	20		80.0	440.0	0.0
Roller	No	20		80.0	390.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Day	Calculated (dBA)		Day		Evening		Lmax
			Day	Evening	Night	Evening			
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Grader			67.2	63.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader			66.1	62.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

66-Paving at Rockwood Road (390) - unmitigated.txt

Paver			58.3	55.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier			66.1	59.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			62.2	55.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			59.7	55.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			62.2	55.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			61.1	54.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			62.2	55.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	67.2	68.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

67-Paving at Rockwood Road (390) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Paving Noise at Rockwood Road (390) - mitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Grader	No	40	85.0		390.0	3.0
Grader	No	40	85.0		440.0	3.0
Paver	No	50		77.2	440.0	3.0
Pavement Scarafier	No	20	85.0		440.0	3.0
Roller	No	20		80.0	390.0	3.0
Backhoe	No	40		77.6	390.0	3.0
Roller	No	20		80.0	390.0	3.0
Roller	No	20		80.0	440.0	3.0
Roller	No	20		80.0	390.0	3.0

Results

Equipment	Noise Limit Exceedance (dBA)					Noise Limits (dBA)			
	Day	Evening	Day	Night	Evening	Lmax	Leq	Lmax	
Grader	N/A	64.2	N/A	N/A	N/A	N/A	N/A	N/A	
Grader	N/A	63.1	N/A	N/A	N/A	N/A	N/A	N/A	

67-Paving at Rockwood Road (390) - mitigated.txt

Paver			55.3	52.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier			63.1	56.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			59.2	52.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			56.7	52.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			59.2	52.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			58.1	51.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			59.2	52.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	64.2	65.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

68-Paving at Safari Park (700) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Paving Noise at Safari Park (700) - unmitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Grader	No	40	85.0		700.0	0.0
Grader	No	40	85.0		700.0	0.0
Paver	No	50		77.2	700.0	0.0
Pavement Scarafier	No	20	85.0		700.0	0.0
Roller	No	20		80.0	700.0	0.0
Backhoe	No	40		77.6	700.0	0.0
Roller	No	20		80.0	700.0	0.0
Roller	No	20		80.0	700.0	0.0
Roller	No	20		80.0	700.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Day	Calculated (dBA)		Day		Evening		Lmax
			Day	Evening	Night	Evening			
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Grader	N/A	N/A	62.1	58.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	N/A	N/A	62.1	58.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

68-Paving at Safari Park (700) - unmitigated.txt

Paver			54.3	51.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier			62.1	55.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			57.1	50.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			54.6	50.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			57.1	50.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			57.1	50.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			57.1	50.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	62.1	63.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

69-Paving at Safari Park (700) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Paving Noise at Safari Park (700) - mitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Grader	No	40	85.0		700.0	3.0
Grader	No	40	85.0		700.0	3.0
Paver	No	50		77.2	700.0	3.0
Pavement Scarafier	No	20	85.0		700.0	3.0
Roller	No	20		80.0	700.0	3.0
Backhoe	No	40		77.6	700.0	3.0
Roller	No	20		80.0	700.0	3.0
Roller	No	20		80.0	700.0	3.0
Roller	No	20		80.0	700.0	3.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Day	Calculated (dBA)		Day		Evening		Lmax
			Day	Evening	Day	Night	Lmax	Leq	
Grader	N/A	N/A	59.1	55.1	N/A	N/A	N/A	N/A	N/A
Grader	N/A	N/A	59.1	55.1	N/A	N/A	N/A	N/A	N/A

69-Paving at Safari Park (700) - mitigated.txt

Paver			51.3	48.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier			59.1	52.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			54.1	47.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			51.6	47.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			54.1	47.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			54.1	47.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			54.1	47.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	59.1	60.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

70-Paving at Barelin Road (330) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Paving Noise at Barelin Road (350) - unmitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Grader	No	40	85.0		330.0	0.0
Grader	No	40	85.0		370.0	0.0
Paver	No	50		77.2	370.0	0.0
Pavement Scarafier	No	20	85.0		370.0	0.0
Roller	No	20		80.0	330.0	0.0
Backhoe	No	40		77.6	330.0	0.0
Roller	No	20		80.0	330.0	0.0
Roller	No	20		80.0	370.0	0.0
Roller	No	20		80.0	330.0	0.0

Results

Night	Noise Limit Exceedance (dBA)					Noise Limits (dBA)			
	Day	Calculated (dBA)		Day	Evening	Day	Evening	Evening	
		Day	Evening	Night		Night			
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Grader	N/A	N/A	68.6	64.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	N/A	N/A	67.6	63.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

70-Paving at Barelin Road (330) - unmitigated.txt

Paver			59.8	56.8	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier			67.6	60.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			63.6	56.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			61.2	57.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			63.6	56.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			62.6	55.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			63.6	56.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	68.6	69.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

71-Paving at Barelin Road (330) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Paving Noise at Barelin Road (330) - mitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Grader	No	40	85.0		330.0	3.0
Grader	No	40	85.0		370.0	3.0
Paver	No	50		77.2	370.0	3.0
Pavement Scarafier	No	20	85.0		370.0	3.0
Roller	No	20		80.0	330.0	3.0
Backhoe	No	40		77.6	330.0	3.0
Roller	No	20		80.0	330.0	3.0
Roller	No	20		80.0	370.0	3.0
Roller	No	20		80.0	370.0	3.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Night	Day	Calculated (dBA)		Day		Evening		Lmax
		Day	Evening	Night	Evening			
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Grader	N/A	N/A	65.6	61.6	N/A	N/A	N/A	N/A
Grader	N/A	N/A	64.6	60.6	N/A	N/A	N/A	N/A

71-Paving at Barelin Road (330) - mitigated.txt

Paver			56.8	53.8	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier			64.6	57.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			60.6	53.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			58.2	54.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			60.6	53.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			59.6	52.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			59.6	52.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	65.6	66.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

72-Paving at Old Wagon Road (350) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Paving Noise at Old Wagon Road (350) - unmitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Equipment

Description	Impact Device	Usage (%)	Spec	Actual	Receptor Distance (feet)	Estimated Shielding (dBA)
			Lmax (dBA)	Lmax (dBA)		
Grader	No	40	85.0		350.0	0.0
Grader	No	40	85.0		390.0	0.0
Paver	No	50		77.2	390.0	0.0
Pavement Scarafier	No	20	85.0		390.0	0.0
Roller	No	20		80.0	350.0	0.0
Backhoe	No	40		77.6	350.0	0.0
Roller	No	20		80.0	350.0	0.0
Roller	No	20		80.0	390.0	0.0
Roller	No	20		80.0	350.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Night	Day	Calculated (dBA)		Day		Evening		Lmax
		Day	Evening	Night	Night	Lmax	Leq	
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Grader	N/A	N/A	68.1	64.1	N/A	N/A	N/A	N/A
Grader	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	N/A	N/A	67.2	63.2	N/A	N/A	N/A	N/A
Grader	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

72-Paving at Old Wagon Road (350) - unmitigated.txt

Paver			59.4	56.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier			67.2	60.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			63.1	56.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			60.7	56.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			63.1	56.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			62.2	55.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			63.1	56.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	68.1	69.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

73-Paving at Old Wagon Road (350) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Paving Noise at Old Wagon Road (350) - nmitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Grader	No	40	85.0		350.0	3.0
Grader	No	40	85.0		390.0	3.0
Paver	No	50		77.2	390.0	3.0
Pavement Scarafier	No	20	85.0		390.0	3.0
Roller	No	20		80.0	350.0	3.0
Backhoe	No	40		77.6	350.0	3.0
Roller	No	20		80.0	350.0	3.0
Roller	No	20		80.0	390.0	3.0
Roller	No	20		80.0	350.0	3.0

Results

Equipment	Night	Day	Calculated (dBA)		Day		Evening		Lmax
			Day	Evening	Day	Night	Lmax	Leq	
Grader	N/A	N/A	65.1	61.1	N/A	N/A	N/A	N/A	N/A
Grader	N/A	N/A	64.2	60.2	N/A	N/A	N/A	N/A	N/A

73-Paving at Old Wagon Road (350) - mitigated.txt

Paver			56.4	53.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier			64.2	57.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			60.1	53.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			57.7	53.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			60.1	53.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			59.2	52.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			60.1	53.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	65.1	66.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

74-Paving at Old Wagon Road (400) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Paving Noise at Old Wagon Road (400) - unmitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Grader	No	40	85.0		400.0	0.0
Grader	No	40	85.0		450.0	0.0
Paver	No	50		77.2	450.0	0.0
Pavement Scarafier	No	20	85.0		450.0	0.0
Roller	No	20		80.0	400.0	0.0
Backhoe	No	40		77.6	400.0	0.0
Roller	No	20		80.0	400.0	0.0
Roller	No	20		80.0	400.0	0.0
Roller	No	20		80.0	400.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Day	Calculated (dBA)		Day		Evening		Lmax
			Day	Evening	Day	Night	Lmax	Leq	
Grader	N/A	N/A	66.9	63.0	N/A	N/A	N/A	N/A	N/A
Grader	N/A	N/A	65.9	61.9	N/A	N/A	N/A	N/A	N/A

74-Paving at Old Wagon Road (400) - unmitigated.txt

Paver			58.1	55.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Pavement Scarafier			65.9	58.9	N/A	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			61.9	54.9	N/A	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			59.5	55.5	N/A	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			61.9	54.9	N/A	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			61.9	54.9	N/A	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			61.9	54.9	N/A	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	66.9	68.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

75-Paving at Old Wagon Road (400) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Paving Noise at Old Wagon Road (400) - mitigated

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Grader	No	40	85.0		400.0	3.0
Grader	No	40	85.0		450.0	3.0
Paver	No	50		77.2	450.0	3.0
Pavement Scarafier	No	20	85.0		450.0	3.0
Roller	No	20		80.0	400.0	3.0
Backhoe	No	40		77.6	400.0	3.0
Roller	No	20		80.0	400.0	3.0
Roller	No	20		80.0	400.0	3.0
Roller	No	20		80.0	400.0	3.0

Results

Night	Day	Calculated (dBA)		Day		Evening		Lmax
		Day	Evening	Night	Evening			
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Grader	N/A	N/A	63.9	60.0	N/A	N/A	N/A	N/A
Grader	N/A	N/A	62.9	58.9	N/A	N/A	N/A	N/A

75-Paving at Old Wagon Road (400) - mitigated.txt

Paver			55.1	52.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier			62.9	55.9	N/A	N/A	N/A	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			58.9	51.9	N/A	N/A	N/A	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			56.5	52.5	N/A	N/A	N/A	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			58.9	51.9	N/A	N/A	N/A	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			58.9	51.9	N/A	N/A	N/A	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			58.9	51.9	N/A	N/A	N/A	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	63.9	65.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

76-Painting at Barelin Road (330) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Painting at Barelin Road (330) - unmitigated

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
On-Site Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	330.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				
Night	Day	Calculated (dBA)			Day Night	Evening			Lmax
		Leq	Lmax	Leq		Lmax	Leq	Lmax	
Compressor (air)	N/A	N/A	61.3	57.3	N/A	N/A	N/A	N/A	N/A
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	61.3	57.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

77-Painting at Barelin Road (330) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Painting at Barelin Road (330) - mitigated

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
On-Site Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	330.0	3.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				
Night	Day	Calculated (dBA)			Day Night		Evening		
		Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Compressor (air)	N/A	N/A	58.3	54.3	N/A	N/A	N/A	N/A	N/A
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	58.3	54.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

78-Painting at Old Wagon Road (350) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Painting at Old Wagon Road (350) - unmitigated

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
On-Site Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	350.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)					
Night	Day	Calculated (dBA)			Day Night	Evening			Lmax	
		Day	Evening	Leq		Lmax	Leq	Lmax		
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Compressor (air)	N/A	N/A	60.8	56.8	N/A	N/A	N/A	N/A	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	N/A	60.8	56.8	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

79-Painting at Old Wagon Road (350) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Painting at Old Wagon Road (350) - mitigated

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
On-Site Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	350.0	3.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				
Night	Day	Calculated (dBA)			Day Night	Evening			Lmax
		Day	Evening	Leq		Lmax	Leq	Lmax	
Equipment	Leq	Lmax	Leq	Lmax	Lmax	Leq	Lmax	Leq	Lmax
Compressor (air)	N/A	N/A	57.8	53.8	N/A	N/A	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	N/A	57.8	53.8	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

80-Painting at Old Wagon Road (400) - unmitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Painting at Old Wagon Road (400) - unmitigated

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
On-Site Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	400.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				
Night	Day	Calculated (dBA)			Day Night		Evening		
		Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Compressor (air)	N/A	N/A	59.6	55.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	Total	59.6	55.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

81-Painting at Old Wagon Road (400) - mitigated.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 01/17/2017
 Case Description: Painting at Old Wagon Road (400) - unmitigated

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
On-Site Residences	Residential	1.0	1.0	1.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	400.0	3.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				
Night	Day	Calculated (dBA)			Day Night	Evening			Lmax
		Day	Evening	Night		Day	Evening	Night	
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)	N/A	N/A	56.6	52.6	N/A	N/A	N/A	N/A	N/A
Total	N/A	N/A	56.6	52.6	N/A	N/A	N/A	N/A	N/A

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1B
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
 Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 35 Feet	Distance to Contour				
								70 Ldn	65 Ldn	60 Ldn	55 Ldn		
Rockwood Road													
Site Access to Cloverdale Road	2	0	3,440	40	0.5	1.8%	0.1%	61.0	-	-	41	87	35
San Pasqual Road													
Old Pasqual Road to Ryan Drive	2	0	4,850	50	0.5	1.8%	0.1%	65.0	-	35	75	162	35
Ryan Drive to Bear Valley Parkway	4	0	14,470	50	0.5	1.8%	0.1%	70.6	-	83	179	385	35
Bear Valley Parkway													
Sunset Drive to San Pasqual Road	3	0	29,820	50	0.5	1.8%	0.1%	73.2	57	123	264	570	35

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1C
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 40 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
Cloverdale Road														
Rockwood Road to San Pasqual Valley Road	2	0	5,280	45	0.5	1.8%	0.1%	63.2	-	-	66	142		40

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1D
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 45 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
San Pasqual Road														
San Pasqual Valley Road to Old Pasqual Road	2	0	4,850	50	0.5	1.8%	0.1%	63.3	-	35	75	161	45	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1E
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
 Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 50 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
San Pasqual Road														
Ryan Drive to Bear Valley Parkway	4	0	14,470	50	0.5	1.8%	0.1%	67.8	-	76	164	354	50	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1F
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL: _____

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 60 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
San Pasqual Road														
Old Pasqual Road to Ryan Drive	2	0	4,850	50	0.5	1.8%	0.1%	61.4	-	35	74	160	60	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1G
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 80 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
Cloverdale Road														
Rockwood Road to San Pasqual Valley Road	2	0	5,280	45	0.5	1.8%	0.1%	58.7	-	-	65	141	80	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1H
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 100 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn	
Rockwood Road													
Site Access to Cloverdale Road	2	0	3,440	40	0.5	1.8%	0.1%	54.0	-	-	40	86	100
Site Access to Vistamonte Avenue	2	0	2,850	40	0.5	1.8%	0.1%	53.2	-	-	35	76	100
San Pasqual Valley Road													
Zoo Road to Cloverdale Road/San Pasqual Road Intersection	3	0	9,220	55	0.5	1.8%	0.1%	62.0	-	63	135	292	100

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 11
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 160 Feet	70 Ldn	65 Ldn	60 Ldn		55 Ldn	
Rockwood Road														
Site Access to Cloverdale Road	2	0	3,440	40	0.5	1.8%	0.1%	51.0	-	-	40	86	160	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1J
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
 Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 175 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn	
Bear Valley Parkway													
San Pasqual Valley Road to Sunset Drive	2	0	19,930	50	0.5	1.8%	0.1%	60.5	41	88	190	409	175
Sunset Drive to San Pasqual Road	3	0	28,820	50	0.5	1.8%	0.1%	62.1	52	113	243	524	175

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1K
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 2,655 Feet	70 Ldn	Distance to Contour 65 Ldn	60 Ldn		55 Ldn
San Pasqual Valley Road													
Zoo Road to Cloverdale Road/San Pasqual Road Intersection	3	0	9,220	55	0.5	1.8%	0.1%	40.6	-	62	134	290	2,655

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1A
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: _____ CNEL: x

Assumed 24-Hour Traffic Distribution:	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%

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 30 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL		
San Pasqual Road														
Ryan Drive to Bear Valley Parkway	4	0	14,470	50	0.5	1.8%	0.1%	72.8	46	99	214	461	30	
San Pasqual Valley Road														
Cloverdale Road/San Pasqual Road Intersection to Summit Drive	4	0	10,490	55	0.5	1.8%	0.1%	72.5	44	95	205	441	30	
Bear Valley Parkway														
San Pasqual Valley Road to Sunset Drive	2	0	19,930	50	0.5	1.8%	0.1%	72.9	47	100	216	466	30	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1B
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: _____ CNEL: _____ x

Assumed 24-Hour Traffic Distribution:	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%

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 35 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL	
Rockwood Road													
Site Access to Cloverdale Road	2	0	3,440	40	0.5	1.8%	0.1%	61.6	-	-	45	97	35
San Pasqual Road													
Old Pasqual Road to Ryan Drive	2	0	4,850	50	0.5	1.8%	0.1%	65.7	-	39	84	181	35
Ryan Drive to Bear Valley Parkway	4	0	14,470	50	0.5	1.8%	0.1%	71.3	-	93	200	430	35
Bear Valley Parkway													
Sunset Drive to San Pasqual Road	3	0	29,820	50	0.5	1.8%	0.1%	73.9	64	137	295	636	35

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1C
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: _____ CNEL: _____ x

Assumed 24-Hour Traffic Distribution:	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%

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 40 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL		
Cloverdale Road														
Rockwood Road to San Pasqual Valley Road	2	0	5,280	45	0.5	1.8%	0.1%	64.0	-	34	73	158		40

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1D
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: _____ CNEL: _____ x

Assumed 24-Hour Traffic Distribution:	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%

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 45 Feet	Distance to Contour					
									70 CNEL	65 CNEL	60 CNEL	55 CNEL		
San Pasqual Road														
San Pasqual Valley Road to Old Pasqual Road	2	0	4,850	50	0.5	1.8%	0.1%	64.0	-	39	83	180	45	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1E
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: _____ CNEL: _____ x

Assumed 24-Hour Traffic Distribution:	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%

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 50 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL		
San Pasqual Road														
Ryan Drive to Bear Valley Parkway	4	0	14,470	50	0.5	1.8%	0.1%	68.5	-	85	184	395	50	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1F
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: _____ CNEL: _____ x

Assumed 24-Hour Traffic Distribution:	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%

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 60 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL		
San Pasqual Road														
Old Pasqual Road to Ryan Drive	2	0	4,850	50	0.5	1.8%	0.1%	62.1	-	39	83	179	60	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1G
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: _____ CNEL: _____ x

Assumed 24-Hour Traffic Distribution:	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%

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 80 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL			
Cloverdale Road															
Rockwood Road to San Pasqual Valley Road	2	0	5,280	45	0.5	1.8%	0.1%	59.4	-	34	73	157			80

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1H
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: _____ CNEL: _____ x

Assumed 24-Hour Traffic Distribution:	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%

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	70 CNEL	65 CNEL	60 CNEL	55 CNEL	
Rockwood Road													
Site Access to Cloverdale Road	2	0	3,440	40	0.5	1.8%	0.1%	54.7	-	-	44	96	100
Site Access to Vistamonte Avenue	2	0	2,850	40	0.5	1.8%	0.1%	53.9	-	-	39	84	100
San Pasqual Valley Road													
Zoo Road to Cloverdale Road/San Pasqual Road Intersection	3	0	9,220	55	0.5	1.8%	0.1%	62.7	-	70	151	326	100

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 11
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: _____ CNEL: _____ x

Assumed 24-Hour Traffic Distribution:	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%

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 160 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL		
Rockwood Road														
Site Access to Cloverdale Road	2	0	3,440	40	0.5	1.8%	0.1%	51.6	-	-	44	96	160	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1J
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: _____ CNEL: _____ x

Assumed 24-Hour Traffic Distribution:	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%

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 175 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL	
Bear Valley Parkway													
San Pasqual Valley Road to Sunset Drive	2	0	19,930	50	0.5	1.8%	0.1%	61.3	46	98	212	457	175
Sunset Drive to San Pasqual Road	3	0	28,820	50	0.5	1.8%	0.1%	62.9	59	126	272	585	175

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1K
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: _____ CNEL: _____ x

Assumed 24-Hour Traffic Distribution:	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%

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 2,655 Feet	70 CNEL	65 CNEL	60 CNEL		55 CNEL	
San Pasqual Valley Road														
Zoo Road to Cloverdale Road/San Pasqual Road Intersection	3	0	9,220	55	0.5	1.8%	0.1%	41.3	-	70	150	324	2,655	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 2A
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 30 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
San Pasqual Road														
Ryan Drive to Bear Valley Parkway	4	0	16,360	50	0.5	1.8%	0.1%	72.6	45	97	208	448	30	
San Pasqual Valley Road														
Cloverdale Road/San Pasqual Road Intersection to Summit Drive	4	0	13,503	55	0.5	1.8%	0.1%	72.9	47	101	217	467	30	
Bear Valley Parkway														
San Pasqual Valley Road to Sunset Drive	2	0	20,048	50	0.5	1.8%	0.1%	72.2	42	90	195	419	30	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 2B
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 35 Feet	Distance to Contour				
								70 Ldn	65 Ldn	60 Ldn	55 Ldn		
Rockwood Road													
Site Access to Cloverdale Road	2	0	9,347	40	0.5	1.8%	0.1%	65.3	-	37	79	170	35
San Pasqual Road													
Old Pasqual Road to Ryan Drive	2	0	6,858	50	0.5	1.8%	0.1%	66.5	-	44	95	204	35
Ryan Drive to Bear Valley Parkway	4	0	16,360	50	0.5	1.8%	0.1%	71.2	-	90	194	418	35
Bear Valley Parkway													
Sunset Drive to San Pasqual Road	3	0	29,879	50	0.5	1.8%	0.1%	73.2	57	123	265	570	35

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 2C
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 40 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
Cloverdale Road														
Rockwood Road to San Pasqual Valley Road	2	0	11,069	45	0.5	1.8%	0.1%	66.5	-	50	108	232	40	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 2D
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 45 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
San Pasqual Road														
San Pasqual Valley Road to Old Pasqual Road	2	0	6,858	50	0.5	1.8%	0.1%	64.8	-	44	94	203	45	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 2E
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL: _____

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 50 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
San Pasqual Road														
Ryan Drive to Bear Valley Parkway	4	0	16,360	50	0.5	1.8%	0.1%	68.3	-	83	178	384	50	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 2F
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 60 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
San Pasqual Road														
Old Pasqual Road to Ryan Drive	2	0	6,858	50	0.5	1.8%	0.1%	62.9	-	43	94	202	60	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 2G
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL: _____

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 80 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
Cloverdale Road														
Rockwood Road to San Pasqual Valley Road	2	0	11,069	45	0.5	1.8%	0.1%	61.9	-	50	107	230	80	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 2H
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 100 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn	
Rockwood Road													
Site Access to Cloverdale Road	2	0	9,347	40	0.5	1.8%	0.1%	58.4	-	36	78	168	100
Site Access to Vistamonte Avenue	2	0	8,757	40	0.5	1.8%	0.1%	58.1	-	35	75	161	100
San Pasqual Valley Road													
Zoo Road to Cloverdale Road/San Pasqual Road Intersection	3	0	9,988	55	0.5	1.8%	0.1%	62.1	-	66	143	308	104

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 21
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 160 Feet	70 Ldn	65 Ldn	60 Ldn		55 Ldn	
Rockwood Road														
Site Access to Cloverdale Road	2	0	9,347	40	0.5	1.8%	0.1%	55.3	-	36	78	168	160	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 2J
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL: _____

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 175 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn	
Bear Valley Parkway													
San Pasqual Valley Road to Sunset Drive	2	0	20,048	50	0.5	1.8%	0.1%	60.6	41	89	191	411	175
Sunset Drive to San Pasqual Road	3	0	29,879	50	0.5	1.8%	0.1%	62.3	54	116	249	537	175

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 2K
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 2,655 Feet	70 Ldn	Distance to Contour 65 Ldn	60 Ldn		55 Ldn	
San Pasqual Valley Road														
Zoo Road to Cloverdale Road/San Pasqual Road Intersection	3	0	9,988	55	0.5	1.8%	0.1%	40.9	-	66	142	306	2,655	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1A
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 30 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
San Pasqual Road														
Ryan Drive to Bear Valley Parkway	4	0	14,814	50	0.5	1.8%	0.1%	72.2	-	90	195	420	30	
San Pasqual Valley Road														
Cloverdale Road/San Pasqual Road Intersection to Summit Drive	4	0	11,224	55	0.5	1.8%	0.1%	72.1	-	89	192	413	30	
Bear Valley Parkway														
San Pasqual Valley Road to Sunset Drive	2	0	20,715	50	0.5	1.8%	0.1%	72.3	43	92	199	428	30	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1B
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 35 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn	
Rockwood Road													
Site Access to Cloverdale Road	2	0	3,455	40	0.5	1.8%	0.1%	61.0	-	-	41	88	35
San Pasqual Road													
Old Pasqual Road to Ryan Drive	2	0	5,210	50	0.5	1.8%	0.1%	65.3	-	37	79	170	35
Ryan Drive to Bear Valley Parkway	4	0	14,814	50	0.5	1.8%	0.1%	70.7	-	84	182	391	35
Bear Valley Parkway													
Sunset Drive to San Pasqual Road	3	0	30,510	50	0.5	1.8%	0.1%	73.3	58	125	268	578	35

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1C
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 40 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
Cloverdale Road														
Rockwood Road to San Pasqual Valley Road	2	0	5,310	45	0.5	1.8%	0.1%	63.3	-	-	66	142	40	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1D
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL: _____

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 45 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
San Pasqual Road														
San Pasqual Valley Road to Old Pasqual Road	2	0	5,210	50	0.5	1.8%	0.1%	63.6	-	36	78	169	45	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1E
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL: _____

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 50 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
San Pasqual Road														
Ryan Drive to Bear Valley Parkway	4	0	14,814	50	0.5	1.8%	0.1%	67.9	-	78	167	360	50	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1F
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 60 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
San Pasqual Road														
Old Pasqual Road to Ryan Drive	2	0	5,210	50	0.5	1.8%	0.1%	61.7	-	36	78	168		60

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1G
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL: _____

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 80 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
Cloverdale Road														
Rockwood Road to San Pasqual Valley Road	2	0	5,310	45	0.5	1.8%	0.1%	58.7	-	-	66	141	80	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1H
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL: _____

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 100 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn	
Rockwood Road													
Site Access to Cloverdale Road	2	0	3,455	40	0.5	1.8%	0.1%	54.0	-	-	40	86	100
Site Access to Vistamonte Avenue	2	0	2,865	40	0.5	1.8%	0.1%	53.2	-	-	35	76	100
San Pasqual Valley Road													
Zoo Road to Cloverdale Road/San Pasqual Road Intersection	3	0	9,521	55	0.5	1.8%	0.1%	62.1	-	64	138	298	100

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 11
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL: _____

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 160 Feet	70 Ldn	65 Ldn	60 Ldn		55 Ldn	
Rockwood Road														
Site Access to Cloverdale Road	2	0	3,455	40	0.5	1.8%	0.1%	51.0	-	-	40	86	160	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1J
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL: _____

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 175 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn	
Bear Valley Parkway													
San Pasqual Valley Road to Sunset Drive	2	0	20,715	50	0.5	1.8%	0.1%	60.7	42	90	195	420	175
Sunset Drive to San Pasqual Road	3	0	30,510	50	0.5	1.8%	0.1%	62.4	54	117	253	545	175

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1K
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 2,655 Feet	Distance to Contour				
								70 Ldn	65 Ldn	60 Ldn	55 Ldn		
San Pasqual Valley Road													
Zoo Road to Cloverdale Road/San Pasqual Road Intersection	3	0	9,521	55	0.5	1.8%	0.1%	40.7	-	64	137	296	2,655

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1A
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 30 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
San Pasqual Road														
Ryan Drive to Bear Valley Parkway	4	0	16,704	50	0.5	1.8%	0.1%	72.7	45	98	211	455	30	
San Pasqual Valley Road														
Cloverdale Road/San Pasqual Road Intersection to Summit Drive	4	0	14,237	55	0.5	1.8%	0.1%	73.1	48	104	225	484	30	
Bear Valley Parkway														
San Pasqual Valley Road to Sunset Drive	2	0	20,833	50	0.5	1.8%	0.1%	72.3	43	93	200	430	30	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1B
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
 Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 35 Feet	Distance to Contour				
								70 Ldn	65 Ldn	60 Ldn	55 Ldn		
Rockwood Road													
Site Access to Cloverdale Road	2	0	9,782	40	0.5	1.8%	0.1%	65.5	-	38	81	175	35
San Pasqual Road													
Old Pasqual Road to Ryan Drive	2	0	9,192	50	0.5	1.8%	0.1%	67.8	-	53	115	248	35
Ryan Drive to Bear Valley Parkway	4	0	16,704	50	0.5	1.8%	0.1%	71.3	-	91	197	424	35
Bear Valley Parkway													
Sunset Drive to San Pasqual Road	3	0	30,569	50	0.5	1.8%	0.1%	73.3	58	125	269	579	35

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1C
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL: _____

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 40 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
Cloverdale Road														
Rockwood Road to San Pasqual Valley Road	2	0	11,519	45	0.5	1.8%	0.1%	66.6	-	51	111	239	40	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1D
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 45 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
San Pasqual Road														
San Pasqual Valley Road to Old Pasqual Road	2	0	7,218	50	0.5	1.8%	0.1%	65.0	-	45	97	210		45

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1E
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
 Community Noise Descriptor: L_{dn}: x CNEL: _____

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 50 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
San Pasqual Road														
Ryan Drive to Bear Valley Parkway	4	0	16,704	50	0.5	1.8%	0.1%	68.4	-	84	181	390	50	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1F
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
 Community Noise Descriptor: L_{dn}: x CNEL: _____

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 60 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
San Pasqual Road														
Old Pasqual Road to Ryan Drive	2	0	7,218	50	0.5	1.8%	0.1%	63.1	-	45	97	209	60	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1G
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL: _____

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 80 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
Cloverdale Road														
Rockwood Road to San Pasqual Valley Road	2	0	11,519	45	0.5	1.8%	0.1%	62.1	-	51	110	237	80	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1H
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 100 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn	
Rockwood Road													
Site Access to Cloverdale Road	2	0	9,782	40	0.5	1.8%	0.1%	58.6	-	37	80	173	100
Site Access to Vistamonte Avenue	2	0	9,192	40	0.5	1.8%	0.1%	58.3	-	36	77	166	100
San Pasqual Valley Road													
Zoo Road to Cloverdale Road/San Pasqual Road Intersection	3	0	9,869	55	0.5	1.8%	0.1%	62.3	-	66	142	305	100

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 11
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 160 Feet	70 Ldn	65 Ldn	60 Ldn		55 Ldn	
Rockwood Road														
Site Access to Cloverdale Road	2	0	9,782	40	0.5	1.8%	0.1%	55.5	-	37	80	173	160	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1J
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL: _____

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 175 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
Bear Valley Parkway														
San Pasqual Valley Road to Sunset Drive	2	0	20,833	50	0.5	1.8%	0.1%	60.7	42	91	196	422	175	
Sunset Drive to San Pasqual Road	3	0	30,569	50	0.5	1.8%	0.1%	62.4	55	117	253	545	175	

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1K
Project Name: Safari Highlands Ranch 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: Linscott, Law & Greenspan 2016
Community Noise Descriptor: L_{dn}: x CNEL:

Assumed 24-Hour Traffic Distribution:	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%

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	Ldn at 2,655 Feet	70 Ldn	Distance to Contour 65 Ldn	60 Ldn		55 Ldn	
San Pasqual Valley Road														
Zoo Road to Cloverdale Road/San Pasqual Road Intersection	3	0	9,869	55	0.5	1.8%	0.1%	40.9	-	65	141	303	2,655	