

## **APPENDIX G – NOISE**





Noise Measurement Site 1 - looking north



Noise Measurement Site 1 - looking northeast



Noise Measurement Site 1 - looking east



Noise Measurement Site 1 - looking southeast



Noise Measurement Site 1 - looking south



Noise Measurement Site 1 - looking southwest



Noise Measurement Site 1 - looking west



Noise Measurement Site 1 - looking northwest



Noise Measurement Site 2 - looking north



Noise Measurement Site 2 - looking northeast



Noise Measurement Site 2 - looking east



Noise Measurement Site 2 - looking southeast



Noise Measurement Site 2 - looking south



Noise Measurement Site 2 - looking southwest



Noise Measurement Site 2 - looking west



Noise Measurement Site 2 - looking northwest



Noise Measurement Site 3 - looking north



Noise Measurement Site 3 - looking northwest



Noise Measurement Site 3 - looking west



Noise Measurement Site 3 - looking southwest



Noise Measurement Site 3 - looking south



Noise Measurement Site 3 - looking southwest



Noise Measurement Site 3 - looking west



Noise Measurement Site 3 - looking northwest

**General Information**

Serial Number 02509  
 Model 831  
 Firmware Version 2.301  
 Filename 831\_Data.001  
 User GT  
 Job Description Peters Canyon Regional Park  
 Location 190 feet north of Intersection of Peters Cyn and Silverado Terrac

**Measurement Description**

Start Time Tuesday, 2017 July 04 12:03:44  
 Stop Time Tuesday, 2017 July 04 12:18:45  
 Duration 00:15:00.5  
 Run Time 00:15:00.5  
 Pause 00:00:00.0  
 Pre Calibration Tuesday, 2017 July 04 12:01:08  
 Post Calibration  
 Calibration Deviation ---

**Note**

Approximately 20' from dirt trail CL and 35' from Class 1 Bike Trail  
 Noise from people talking, bicycles on dirt trail and vehicles on Peters Cyn Rd  
 83F, 29.61 in Hg, 52% Hu, 4 mph wind, clear sky

**Overall Data**

LAEq		40.6	dB
LASmax	2017 Jul 04 12:17:37	60.2	dB
LApeak (max)	2017 Jul 04 12:17:37	95.9	dB
LASmin	2017 Jul 04 12:09:17	31.6	dB
LCeq		53.8	dB
LAEq		40.6	dB
LCeq - LAeq		13.1	dB
LAIEq		49.2	dB
LAEq		40.6	dB
LAIEq - LAeq		8.6	dB
Ldn		40.6	dB
LDay 07:00-23:00		40.6	dB
LNight 23:00-07:00		---	dB
Lden		40.6	dB
LDay 07:00-19:00		40.6	dB
LEvening 19:00-23:00		---	dB
LNight 23:00-07:00		---	dB
LAE		70.2	dB
# Overloads		0	
Overload Duration		0.0	s
# OBA Overloads		0	
OBA Overload Duration		0.0	s

**Statistics**

LAS5.00	45.7	dBA
LAS10.00	44.2	dBA
LAS33.30	39.5	dBA
LAS50.00	37.5	dBA
LAS66.60	35.5	dBA
LAS90.00	33.6	dBA
LAS > 65.0 dB (Exceedence Counts / Duration)	0 / 0.0	s
LAS > 85.0 dB (Exceedence Counts / Duration)	0 / 0.0	s
LApeak > 135.0 dB (Exceedence Counts / Duration)	0 / 0.0	s
LApeak > 137.0 dB (Exceedence Counts / Duration)	0 / 0.0	s
LApeak > 140.0 dB (Exceedence Counts / Duration)	0 / 0.0	s

**Settings**

RMS Weight	A Weighting	
Peak Weight	A Weighting	
Detector	Slow	
Preamp	PRM831	
Integration Method	Linear	
OBA Range	Normal	
OBA Bandwidth	1/1 and 1/3	
OBA Freq. Weighting	Z Weighting	
OBA Max Spectrum	Bin Max	
Gain	+0	dB
Under Range Limit	26.2	dB
Under Range Peak	75.8	dB
Noise Floor	17.0	dB
Overload	143.3	dB

**1/1 Spectra**

Freq. (Hz):	8.0	16.0	31.5	63.0	125	250	500	1k	2k	4k	8k	16k
LZeq	61.9	54.7	49.1	49.3	47.0	39.6	35.8	35.7	36.1	37.4	39.6	43.0
LZSmax	79.4	70.2	60.9	60.0	64.5	51.1	47.9	47.2	51.8	57.7	49.6	43.6
LZSmin	39.3	41.9	41.7	43.5	40.5	32.2	29.7	30.8	32.8	35.8	39.2	42.8

### 1/3 Spectra

Freq. (Hz):	6.3	8.0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	63.0	80.0
LZeq	59.0	57.1	54.7	52.2	49.2	47.1	45.7	44.1	43.1	44.3	42.8	46.0
LZSmax	77.2	71.9	71.3	67.7	64.7	62.0	60.8	56.2	56.4	57.7	56.6	59.9
LZSmin	33.0	34.6	34.2	33.8	35.7	36.1	35.8	36.7	34.5	36.3	35.6	37.9
Freq. (Hz):	100	125	160	200	250	315	400	500	630	800	1k	1.25k
LZeq	44.8	40.9	38.5	36.4	34.8	32.3	31.2	30.8	31.3	31.3	30.8	30.8
LZSmax	64.8	51.5	53.2	49.1	47.5	44.6	46.6	43.3	43.6	45.6	43.0	46.3
LZSmin	36.4	35.0	31.7	29.1	26.2	24.6	24.4	24.1	24.9	25.0	26.0	26.5
Freq. (Hz):	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k	20k
LZeq	31.1	31.5	31.4	32.0	33.0	32.8	33.6	34.7	35.8	37.0	37.8	39.5
LZSmax	43.3	49.4	47.5	49.8	55.7	50.1	47.6	45.0	38.5	38.2	38.5	39.8
LZSmin	27.0	27.7	28.6	29.8	30.8	31.9	33.1	34.3	35.5	36.7	37.6	39.3

### Calibration History

Preamp	Date	dB re. 1V/Pa
PRM831	04 Jul 2017 12:01:07	-25.8
PRM831	22 Jun 2017 14:02:37	-26.3
PRM831	22 Jun 2017 12:06:39	-25.9
PRM831	06 Apr 2017 13:35:04	-25.9
PRM831	05 Apr 2017 10:29:19	-25.5
PRM831	28 Mar 2017 11:12:45	-25.8
PRM831	02 Nov 2016 10:44:45	-25.2
PRM831	22 Sep 2016 15:49:59	-26.5
PRM831	24 Aug 2016 19:03:10	-26.1
PRM831	26 Jul 2016 10:53:46	-26.0
PRM831	26 Jul 2016 09:33:01	-26.4

### General Information

Serial Number	02509
Model	831
Firmware Version	2.301
Filename	831_Data.002
User	GT
Job Description	Peters Canyon Regional Park
Location	East side of Parking Lot for Peters Canyon Regional Park
Measurement Description	
Start Time	Tuesday, 2017 July 04 12:32:01
Stop Time	Tuesday, 2017 July 04 12:47:01
Duration	00:15:00.6
Run Time	00:15:00.6
Pause	00:00:00.0
Pre Calibration	Tuesday, 2017 July 04 12:01:07
Post Calibration	None
Calibration Deviation	---

### Note

On island between north and south sections of parking lot and approx 50' SW of pay station  
Noise from vehicles and people in parking lot, aircraft overflights and vehicles on Canyon View Ave  
84F, 29.31 in Hg, 49% Hu, 7 mph wind, clear sky

### Overall Data

LAeq		51.7	dB
LASmax	2017 Jul 04 12:40:31	69.7	dB
LApeak (max)	2017 Jul 04 12:32:16	85.1	dB
LASmin	2017 Jul 04 12:37:07	38.6	dB
LCeq		63.9	dB
LAeq		51.7	dB
LCeq - LAeq		12.1	dB
LA1eq		55.2	dB
LAeq		51.7	dB
LA1eq - LAeq		3.5	dB
Ldn		51.7	dB
LDay 07:00-23:00		51.7	dB
LNight 23:00-07:00		---	dB
Lden		51.7	dB
LDay 07:00-19:00		51.7	dB
LEvening 19:00-23:00		---	dB
LNight 23:00-07:00		---	dB
LAE		81.2	dB
# Overloads		0	
Overload Duration		0.0	s
# OBA Overloads		0	
OBA Overload Duration		0.0	s

### Statistics

LAS5.00	55.4	dBA
LAS10.00	51.5	dBA
LAS33.30	45.9	dBA
LAS50.00	44.8	dBA
LAS66.60	43.6	dBA
LAS90.00	41.5	dBA
LAS > 65.0 dB (Exceedence Counts / Duration)	2 / 14.5	s
LAS > 85.0 dB (Exceedence Counts / Duration)	0 / 0.0	s
LApeak > 135.0 dB (Exceedence Counts / Duration)	0 / 0.0	s
LApeak > 137.0 dB (Exceedence Counts / Duration)	0 / 0.0	s
LApeak > 140.0 dB (Exceedence Counts / Duration)	0 / 0.0	s

### Settings

RMS Weight	A Weighting
Peak Weight	A Weighting
Detector	Slow
Preamp	PRM831
Integration Method	Linear
OBA Range	Normal
OBA Bandwidth	1/1 and 1/3
OBA Freq. Weighting	Z Weighting
OBA Max Spectrum	Bin Max
Gain	+0 dB
Under Range Limit	26.2 dB
Under Range Peak	75.8 dB
Noise Floor	17.0 dB
Overload	143.3 dB

### 1/1 Spectra

Freq. (Hz):	8.0	16.0	31.5	63.0	125	250	500	1k	2k	4k	8k	16k
LZeq	71.6	65.6	60.7	58.1	55.6	50.5	51.1	46.6	40.7	38.6	39.9	43.0
LZSmax	87.2	82.8	72.1	71.8	73.7	68.3	71.0	66.2	56.3	49.0	44.3	43.3
LZSmin	40.7	47.4	48.4	47.0	43.0	36.6	35.3	35.0	34.4	36.3	39.6	42.8

### 1/3 Spectra

Freq. (Hz):	6.3	8.0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	63.0	80.0
LZeq	68.8	66.3	64.3	62.6	60.5	58.2	58.1	54.2	54.2	55.0	52.9	51.6
LZSmax	84.8	82.1	79.1	80.0	78.1	74.0	71.3	67.6	71.6	71.2	70.7	68.2
LZSmin	31.8	34.8	36.0	38.8	40.2	42.5	43.3	42.8	39.1	41.8	41.3	40.9
Freq. (Hz):	100	125	160	200	250	315	400	500	630	800	1k	1.25k
LZeq	52.2	51.5	48.4	46.7	45.7	44.6	44.9	46.3	47.2	44.1	40.6	39.4
LZSmax	71.8	69.8	65.3	64.0	65.3	62.8	64.0	66.1	68.1	65.5	58.9	59.0
LZSmin	32.2	37.3	34.1	32.8	31.2	30.1	29.8	29.8	29.5	29.8	30.3	30.3
Freq. (Hz):	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k	20k
LZeq	37.1	35.3	34.9	34.3	33.7	33.5	34.0	34.9	36.3	37.0	37.9	39.7
LZSmax	52.4	50.6	50.5	46.0	44.2	41.7	39.6	42.9	37.7	37.4	38.6	40.3
LZSmin	29.3	29.3	29.7	30.6	31.3	32.1	31.9	33.6	35.9	36.7	37.7	39.5

### Calibration History

Preamp	Date	dB re. 1V/Pa
PRM831	04 Jul 2017 12:01:07	-25.8
PRM831	22 Jun 2017 14:02:37	-26.3
PRM831	22 Jun 2017 12:06:39	-25.9
PRM831	06 Apr 2017 13:35:04	-25.9
PRM831	05 Apr 2017 10:29:19	-25.5
PRM831	28 Mar 2017 11:12:45	-25.8
PRM831	02 Nov 2016 10:44:45	-25.2
PRM831	22 Sep 2016 15:49:59	-26.5
PRM831	24 Aug 2016 19:03:10	-26.1
PRM831	26 Jul 2016 10:53:46	-26.0
PRM831	26 Jul 2016 09:33:01	-26.4



## General Information

Serial Number	02509
Model	831
Firmware Version	2.301
Filename	831_Data.003
User	GT
Job Description	Peters Canyon Regional Park
Location	At Proposed Parking Area West Corner of Park

## Measurement Description

Start Time	Tuesday, 2017 July 04 12:54:00
Stop Time	Tuesday, 2017 July 04 13:10:01
Duration	00:16:00.6
Run Time	00:16:00.6
Pause	00:00:00.0
Pre Calibration	Tuesday, 2017 July 04 12:01:07
Post Calibration	None
Calibration Deviation	---

## Note

Approximately 140' SE of Newport Blvd CL and 200' SW of Skylark Pl CL  
Noise from vehicles on Newport Blvd and aircraft overflights  
84F, 29.31 in Hg, 49% Hu, 7 mph wind, clear sky

## Overall Data

LAeq		54.8	dB
LASmax	2017 Jul 04 13:02:03	74.8	dB
LApeak (max)	2017 Jul 04 13:02:04	89.2	dB
LASmin	2017 Jul 04 12:58:25	35.9	dB
LCeq		66.3	dB
LAeq		54.8	dB
LCeq - LAeq		11.5	dB
LA1eq		56.3	dB
LAeq		54.8	dB
LA1eq - LAeq		1.5	dB
Ldn		54.8	dB
LDay 07:00-23:00		54.8	dB
LNight 23:00-07:00		---	dB
Lden		54.8	dB
LDay 07:00-19:00		54.8	dB
LEvening 19:00-23:00		---	dB
LNight 23:00-07:00		---	dB
LAE		84.7	dB
# Overloads		0	
Overload Duration		0.0	s
# OBA Overloads		0	
OBA Overload Duration		0.0	s

## Statistics

LAS5.00	56.7	dBA
LAS10.00	55.6	dBA
LAS33.30	51.9	dBA
LAS50.00	50.1	dBA
LAS66.60	47.9	dBA
LAS90.00	43.0	dBA

LAS > 65.0 dB (Exceedence Counts / Duration)	1 / 10.8	s
LAS > 85.0 dB (Exceedence Counts / Duration)	0 / 0.0	s
LApeak > 135.0 dB (Exceedence Counts / Duration)	0 / 0.0	s
LApeak > 137.0 dB (Exceedence Counts / Duration)	0 / 0.0	s
LApeak > 140.0 dB (Exceedence Counts / Duration)	0 / 0.0	s

## Settings

RMS Weight	A Weighting	
Peak Weight	A Weighting	
Detector	Slow	
Preamp	PRM831	
Integration Method	Linear	
OBA Range	Normal	
OBA Bandwidth	1/1 and 1/3	
OBA Freq. Weighting	Z Weighting	
OBA Max Spectrum	Bin Max	
Gain	+0	dB
Under Range Limit	26.2	dB
Under Range Peak	75.8	dB
Noise Floor	17.0	dB
Overload	143.3	dB

**1/1 Spectra**

Freq. (Hz):	8.0	16.0	31.5	63.0	125	250	500	1k	2k	4k	8k	16k
LZeq	60.7	55.6	58.8	63.3	61.7	54.5	50.5	50.7	45.7	42.0	40.6	43.1
LZSmax	76.9	71.9	78.8	82.6	81.3	77.0	72.3	69.4	66.7	63.3	57.0	45.8
LZSmin	41.5	44.2	42.5	44.0	39.3	34.9	33.0	33.0	33.7	36.1	39.6	43.0

**1/3 Spectra**

Freq. (Hz):	6.3	8.0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	63.0	80.0
LZeq	57.5	55.9	53.5	52.1	50.3	50.0	49.9	51.3	57.1	58.9	59.2	57.8
LZSmax	72.7	74.5	68.2	70.5	67.1	62.1	63.9	72.1	77.4	81.3	80.1	77.0
LZSmin	32.2	31.8	36.3	35.2	36.9	39.0	36.6	36.7	38.0	39.3	37.7	37.4

Freq. (Hz):	100	125	160	200	250	315	400	500	630	800	1k	1.25k
LZeq	58.8	57.5	52.4	51.5	49.8	47.4	46.4	45.7	44.7	45.5	46.5	45.8
LZSmax	78.1	79.3	71.8	74.4	72.9	70.2	69.6	67.6	65.5	63.3	65.1	65.7
LZSmin	35.8	33.3	31.1	29.7	29.3	27.9	28.1	27.9	27.7	27.9	28.3	28.2

Freq. (Hz):	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k	20k
LZeq	42.7	40.4	38.8	37.9	37.4	36.3	35.6	35.5	36.5	37.0	38.0	39.8
LZSmax	63.0	61.6	60.6	59.6	58.6	57.1	54.9	51.4	47.1	42.8	39.8	40.7
LZSmin	28.3	28.6	29.2	30.2	31.1	32.0	33.3	34.4	36.0	36.6	36.4	39.6

**Calibration History**

Preamp	Date	dB re. 1V/Pa
PRM831	04 Jul 2017 12:01:07	-25.8
PRM831	22 Jun 2017 14:02:37	-26.3
PRM831	22 Jun 2017 12:06:39	-25.9
PRM831	06 Apr 2017 13:35:04	-25.9
PRM831	05 Apr 2017 10:29:19	-25.5
PRM831	28 Mar 2017 11:12:45	-25.8
PRM831	02 Nov 2016 10:44:45	-25.2
PRM831	22 Sep 2016 15:49:59	-26.5
PRM831	24 Aug 2016 19:03:10	-26.1
PRM831	26 Jul 2016 10:53:46	-26.0
PRM831	26 Jul 2016 09:33:01	-26.4

## Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 7/6/2017

Case Description: Canyon View Staging Area

### ---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Homes	Residential	51.7	51.7	51.7

Description	Impact Device	Usage(%)	Equipment Spec	Actual	Receptor Distance (feet)	Estimated Shielding (dBA)
			Lmax (dBA)	Lmax (dBA)		
Front End Loader	No	40			79.1	130
Tractor	No	40		84		180
Tractor	No	40		84		230
Grader	No	40		85		280
Roller	No	20			80	330
Gradall	No	40			83.4	380
Crane	No	16			80.6	430

### Results

Equipment	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
Front End Loader	70.8	66.8	N/A	N/A	N/A	N/A
Tractor	72.9	68.9	N/A	N/A	N/A	N/A
Tractor	70.7	66.8	N/A	N/A	N/A	N/A
Grader	70.0	66.1	N/A	N/A	N/A	N/A
Roller	63.6	56.6	N/A	N/A	N/A	N/A
Gradall	66	62	N/A	N/A	N/A	N/A
Crane	62	54	N/A	N/A	N/A	N/A
<b>Total</b>	<b>73</b>	<b>74</b>	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

## Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 7/6/2017  
 Case Description: Big Red Rest Area

### ---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Homes	Residential	51.7	51.7	51.7

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	600	0
Tractor	No	40	84		650	0
Tractor	No	40	84		700	0
Gradall	No	40		83.4	750	0
Crane	No	16		80.6	800	0

Equipment	Calculated (dBA)		Results			
	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
Front End Loader	57.5	53.5	N/A	N/A	N/A	N/A
Tractor	62	58	N/A	N/A	N/A	N/A
Tractor	61.1	57.1	N/A	N/A	N/A	N/A
Gradall	59.9	55.9	N/A	N/A	N/A	N/A
Crane	56.5	48.5	N/A	N/A	N/A	N/A
<b>Total</b>	<b>62</b>	<b>63</b>	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

## Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 7/6/2017

Case Description: Historic Reservoir Viewing Area

### ---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Homes	Residential	51.7	51.7	51.7

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	770	0
Front End Loader	No	40		79.1	820	0
Tractor	No	40	84		870	0
Tractor	No	40	84		920	0
Tractor	No	40	84		970	0
Gradall	No	40		83.4	1020	0
Gradall	No	40		83.4	1070	0
Gradall	No	40		83.4	1120	0

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Day Leq	Day Lmax	Evening Leq	Evening Lmax	Evening Leq
Front End Loader	55.4	51.4	N/A	N/A	N/A	N/A
Front End Loader	54.8	50.8	N/A	N/A	N/A	N/A
Tractor	59	55	N/A	N/A	N/A	N/A
Tractor	58.7	54.7	N/A	N/A	N/A	N/A
Tractor	58.2	54.3	N/A	N/A	N/A	N/A
Gradall	57.2	53.2	N/A	N/A	N/A	N/A
Gradall	57	53	N/A	N/A	N/A	N/A
Gradall	56.4	52.4	N/A	N/A	N/A	N/A
<b>Total</b>	<b>59</b>	<b>62</b>	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

## Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 7/7/2017  
 Case Description: Skylark Staging Area

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Homes	Residential	54.8	54.8	54.8

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Front End Loader	No	40		79.1	100	0
Tractor	No	40	84		150	0
Tractor	No	40	84		200	0
Grader	No	40	85		250	0
Roller	No	20		80	300	0
Gradall	No	40		83.4	350	0

Equipment	Results				Noise Limits (dBA)	
	Calculated (dBA)		Day		Evening	
	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Front End Loader	73.1	69.1	N/A	N/A	N/A	N/A
Tractor	74.5	70.5	N/A	N/A	N/A	N/A
Tractor	72.0	68.0	N/A	N/A	N/A	N/A
Grader	71.0	67.0	N/A	N/A	N/A	N/A
Roller	64	57	N/A	N/A	N/A	N/A
Gradall	66.5	62.5	N/A	N/A	N/A	N/A
<b>Total</b>	<b>75</b>	<b>75</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

\*Calculated Lmax is the Loudest value.

**Roadway Construction Noise Model (RCNM), Version 1.1**

Report date: 7/6/2017  
 Case Descriptor Bent Tree Trailhead

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Homes	Residential	40.6	40.6	40.6

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			
Front End Loader	No	40			79.1	120	0
Tractor	No	40		84		170	0
Tractor	No	40		84		220	0
Gradall	No	40			83.4	270	0

		Results					
		Calculated (dBA)			Noise Limits (dBA)		
Equipment	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	
Front End Loader	72	68	N/A	N/A	N/A	N/A	
Tractor	73	69	N/A	N/A	N/A	N/A	
Tractor	71	67	N/A	N/A	N/A	N/A	
Gradall	69	65	N/A	N/A	N/A	N/A	
<b>Total</b>	<b>73</b>	<b>74</b>	N/A	N/A	N/A	N/A	

\*Calculated Lmax is the Loudest value.

## Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 7/6/2017

Case Descriptor Lower Peters Canyon Trailheads and Restrooms

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Homes	Residential	40.6	40.6	40.6

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			
Front End Loader	No	40			79.1	270	0
Tractor	No	40		84		320	0
Tractor	No	40		84		370	0
Tractor	No	40		84		420	0
Tractor	No	40		84		470	0
Gradall	No	40			83.4	520	0
Crane	No	16			80.6	570	0

Equipment	Results						
	Calculated (dBA)			Noise Limits (dBA)			
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	
Front End Loader	65	61	N/A	N/A	N/A	N/A	
Tractor	68	64	N/A	N/A	N/A	N/A	
Tractor	67	63	N/A	N/A	N/A	N/A	
Tractor	66	62	N/A	N/A	N/A	N/A	
Tractor	65	61	N/A	N/A	N/A	N/A	
Gradall	63	59	N/A	N/A	N/A	N/A	
Crane	59	52	N/A	N/A	N/A	N/A	
<b>Total</b>	<b>68</b>	<b>70</b>	N/A	N/A	N/A	N/A	

\*Calculated Lmax is the Loudest value.