

## **APPENDIX H**

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### **Noise Data**

|                                                                                          |                            |                             |
|------------------------------------------------------------------------------------------|----------------------------|-----------------------------|
| <b>Site Number:</b> NM-1                                                                 |                            |                             |
| <b>Recorded By:</b> Justin Reynolds, Bollard Acoustical Consultants                      |                            |                             |
| <b>Job Number:</b> 192914                                                                |                            |                             |
| <b>Date:</b> 3/13/2024                                                                   |                            |                             |
| <b>Time:</b> 11:55 AM                                                                    |                            |                             |
| <b>Location:</b> Near the Waterbird Regional Reserve Park rest stop, along Waterbird Way |                            |                             |
| <b>Source of Ambient Noise:</b> Traffic, Railroad, Birds                                 |                            |                             |
| <b>Noise Data</b>                                                                        |                            |                             |
| <b>L<sub>eq</sub> (dB)</b>                                                               | <b>L<sub>max</sub>(dB)</b> | <b>L<sub>min</sub> (dB)</b> |
| 58.6                                                                                     | 66.5                       | 54.0                        |

| Equipment    |                                   |              |                                         |                              |                                    |      |
|--------------|-----------------------------------|--------------|-----------------------------------------|------------------------------|------------------------------------|------|
| Category     | Type                              | Vendor       | Model                                   | Serial No.                   | Cert. Date                         | Note |
| Sound        | Sound Level Meter                 | Larson Davis | Lxt                                     | 3920                         | 2/20/2024                          |      |
|              | Microphone                        | Larson Davis | 377B02                                  | 143635                       | 2/20/2024                          |      |
|              | Preamp                            | Larson Davis | PRMLXT1L                                | 029308                       | 2/20/2024                          |      |
|              | Calibrator                        | Larson Davis | LD200                                   | 4519                         | 2/20/2024                          |      |
| Weather Data |                                   |              |                                         |                              |                                    |      |
| Est.         | <b>Duration:</b> 10 minutes       |              |                                         | <b>Sky:</b> Partly Cloudy    |                                    |      |
|              | <b>Note:</b> dBA Offset = .9      |              |                                         | <b>Sensor Height (ft):</b> 5 |                                    |      |
|              | <b>Wind Ave Speed (mph / m/s)</b> |              | <b>Temperature (degrees Fahrenheit)</b> |                              | <b>Barometer Pressure (inches)</b> |      |
|              | 8 MPH WNW                         |              | 57                                      |                              | 30.23                              |      |

### **Photo of Measurement Location**



| Summary                   |                                                |         |       |  |
|---------------------------|------------------------------------------------|---------|-------|--|
| File Name on Meter        | LxT_Data.001.s                                 |         |       |  |
| File Name on PC           | LxT_0003920-20240313 115555-LxT_Data_001.ldbin |         |       |  |
| Serial Number             | 0003920                                        |         |       |  |
| Model                     | SoundTrack LxT®                                |         |       |  |
| Firmware Version          | 2.302                                          |         |       |  |
| User                      |                                                |         |       |  |
| Location                  |                                                |         |       |  |
| Job Description           |                                                |         |       |  |
| Note                      |                                                |         |       |  |
| Measurement               |                                                |         |       |  |
| Description               |                                                |         |       |  |
| Start                     | 2024-03-13 11:55:55                            |         |       |  |
| Stop                      | 2024-03-13 12:05:55                            |         |       |  |
| Duration                  | 00:10:00.0                                     |         |       |  |
| Run Time                  | 00:10:00.0                                     |         |       |  |
| Pause                     | 00:00:00.0                                     |         |       |  |
| Pre-Calibration           | 2024-03-13 11:51:29                            |         |       |  |
| Post-Calibration          | None                                           |         |       |  |
| Calibration Deviation     | ---                                            |         |       |  |
| Overall Settings          |                                                |         |       |  |
| RMS Weight                | A Weighting                                    |         |       |  |
| Peak Weight               | Z Weighting                                    |         |       |  |
| Detector                  | Slow                                           |         |       |  |
| Preamplifier              | PRMLxT1L                                       |         |       |  |
| Microphone Correction     | Off                                            |         |       |  |
| Integration Method        | Exponential                                    |         |       |  |
| Overload                  | 121.4 dB                                       |         |       |  |
|                           | A                                              | C       | Z     |  |
| Under Range Peak          | 77.7                                           | 74.7    | 79.7  |  |
| Under Range Limit         | 25.7                                           | 25.6    | 30.7  |  |
| Noise Floor               | 16.3                                           | 16.5    | 21.5  |  |
|                           | First                                          | Second  | Third |  |
| Instrument Identification |                                                |         |       |  |
| Results                   |                                                |         |       |  |
| LASeq                     | 58.6                                           |         |       |  |
| LASE                      | 86.4                                           |         |       |  |
| EAS                       | 48.565 μPa²h                                   |         |       |  |
| EAS8                      | 2.331 mPa²h                                    |         |       |  |
| EAS40                     | 11.656 mPa²h                                   |         |       |  |
| LZpeak (max)              | 2024-03-13 12:02:23                            | 95.0 dB |       |  |

LASmax

2024-03-13 11:57:40

66.5 dB

LASmin

2024-03-13 12:01:17

54.0 dB

SEA

-99.9 dB

|                   | Exceedance Counts | Duration |
|-------------------|-------------------|----------|
| LAS > 85.0 dB     | 0                 | 0.0 s    |
| LAS > 115.0 dB    | 0                 | 0.0 s    |
| LZpeak > 135.0 dB | 0                 | 0.0 s    |
| LZpeak > 137.0 dB | 0                 | 0.0 s    |
| LZpeak > 140.0 dB | 0                 | 0.0 s    |

LCseq

71.9 dB

LAseq

58.6 dB

LCseq - LAseq

13.3 dB

LAlaq

60.2 dB

LAeq

58.6 dB

LAlaq - LAeq

1.6 dB

|            | A    |                     | C  |
|------------|------|---------------------|----|
|            | dB   | Time Stamp          | dB |
| Leq        | 58.6 |                     |    |
| LS(max)    | 66.5 | 2024/03/13 11:57:40 |    |
| LS(min)    | 54.0 | 2024/03/13 12:01:17 |    |
| LPeak(max) |      |                     |    |

|                                                                     |                            |                             |
|---------------------------------------------------------------------|----------------------------|-----------------------------|
| <b>Site Number:</b> NM-2                                            |                            |                             |
| <b>Recorded By:</b> Justin Reynolds, Bollard Acoustical Consultants |                            |                             |
| <b>Job Number:</b> 192914                                           |                            |                             |
| <b>Date:</b> 3/13/2024                                              |                            |                             |
| <b>Time:</b> 12:23 PM                                               |                            |                             |
| <b>Location:</b> In front of 4095 Cabrilho Drive residence          |                            |                             |
| <b>Source of Ambient Noise:</b> Traffic                             |                            |                             |
| <b>Noise Data</b>                                                   |                            |                             |
| <b>L<sub>eq</sub> (dB)</b>                                          | <b>L<sub>max</sub>(dB)</b> | <b>L<sub>min</sub> (dB)</b> |
| 53.8                                                                | 68.3                       | 47.7                        |

| <b>Equipment</b>    |                                   |               |                                         |                              |                                    |             |
|---------------------|-----------------------------------|---------------|-----------------------------------------|------------------------------|------------------------------------|-------------|
| <b>Category</b>     | <b>Type</b>                       | <b>Vendor</b> | <b>Model</b>                            | <b>Serial No.</b>            | <b>Cert. Date</b>                  | <b>Note</b> |
| <b>Sound</b>        | Sound Level Meter                 | Larson Davis  | Lxt                                     | 3920                         | 2/20/2024                          |             |
|                     | Microphone                        | Larson Davis  | 377B02                                  | 143635                       | 2/20/2024                          |             |
|                     | Preamp                            | Larson Davis  | PRMLXT1L                                | 029308                       | 2/20/2024                          |             |
|                     | Calibrator                        | Larson Davis  | LD200                                   | 4519                         | 2/20/2024                          |             |
| <b>Weather Data</b> |                                   |               |                                         |                              |                                    |             |
| <b>Est.</b>         | <b>Duration:</b> 10 minutes       |               |                                         | <b>Sky:</b> Partly Cloudy    |                                    |             |
|                     | <b>Note:</b> dBA Offset = .9      |               |                                         | <b>Sensor Height (ft):</b> 5 |                                    |             |
|                     | <b>Wind Ave Speed (mph / m/s)</b> |               | <b>Temperature (degrees Fahrenheit)</b> |                              | <b>Barometer Pressure (inches)</b> |             |
|                     | 8 MPH WNW                         |               | 57                                      |                              | 30.23                              |             |

### **Photo of Measurement Location**



| Summary            |                                                |  |  |
|--------------------|------------------------------------------------|--|--|
| File Name on Meter | LxT_Data.002.s                                 |  |  |
| File Name on PC    | LxT_0003920-20240313 122353-LxT_Data_002.ldbin |  |  |
| Serial Number      | 0003920                                        |  |  |
| Model              | SoundTrack LxT®                                |  |  |
| Firmware Version   | 2.302                                          |  |  |
| User               |                                                |  |  |
| Location           |                                                |  |  |
| Job Description    |                                                |  |  |
| Note               |                                                |  |  |

| Measurement           |                     |  |  |
|-----------------------|---------------------|--|--|
| Description           |                     |  |  |
| Start                 | 2024-03-13 12:23:53 |  |  |
| Stop                  | 2024-03-13 12:33:53 |  |  |
| Duration              | 00:10:00.0          |  |  |
| Run Time              | 00:10:00.0          |  |  |
| Pause                 | 00:00:00.0          |  |  |
| Pre-Calibration       | 2024-03-13 11:51:25 |  |  |
| Post-Calibration      | None                |  |  |
| Calibration Deviation | ---                 |  |  |

| Overall Settings          |              |               |              |
|---------------------------|--------------|---------------|--------------|
| RMS Weight                | A Weighting  |               |              |
| Peak Weight               | Z Weighting  |               |              |
| Detector                  | Slow         |               |              |
| Preamplifier              | PRMLxT1L     |               |              |
| Microphone Correction     | Off          |               |              |
| Integration Method        | Exponential  |               |              |
| Overload                  | 121.4 dB     |               |              |
|                           | <b>A</b>     | <b>C</b>      | <b>Z</b>     |
| Under Range Peak          | 77.7         | 74.7          | <b>79.7</b>  |
| Under Range Limit         | <b>25.7</b>  | 25.6          | 30.7         |
| Noise Floor               | 16.3         | 16.5          | 21.5         |
|                           | <b>First</b> | <b>Second</b> | <b>Third</b> |
| Instrument Identification |              |               |              |

| Results      |                                  |         |  |
|--------------|----------------------------------|---------|--|
| LASeq        | 53.8                             |         |  |
| LASE         | 81.5                             |         |  |
| EAS          | 15.850 $\mu\text{Pa}^2\text{h}$  |         |  |
| EAS8         | 760.788 $\mu\text{Pa}^2\text{h}$ |         |  |
| EAS40        | 3.804 $\text{mPa}^2\text{h}$     |         |  |
| LZpeak (max) | 2024-03-13 12:33:30              | 96.5 dB |  |
| LASmax       | 2024-03-13 12:32:10              | 68.3 dB |  |

LASmin  
SEA

2024-03-13 12:31:51  
-99.9 dB

47.7 dB

|                   | Exceedance Counts | Duration |
|-------------------|-------------------|----------|
| LAS > 85.0 dB     | 0                 | 0.0 s    |
| LAS > 115.0 dB    | 0                 | 0.0 s    |
| LZpeak > 135.0 dB | 0                 | 0.0 s    |
| LZpeak > 137.0 dB | 0                 | 0.0 s    |
| LZpeak > 140.0 dB | 0                 | 0.0 s    |

|               |         |
|---------------|---------|
| LCSeq         | 66.1 dB |
| LASeq         | 53.8 dB |
| LCSeq - LASeq | 12.4 dB |
| LALeq         | 56.2 dB |
| LAeq          | 53.8 dB |
| LALeq - LAeq  | 2.4 dB  |

|            | A    |                     | C  |
|------------|------|---------------------|----|
|            | dB   | Time Stamp          | dB |
| Leq        | 53.8 |                     |    |
| LS(max)    | 68.3 | 2024/03/13 12:32:10 |    |
| LS(min)    | 47.7 | 2024/03/13 12:31:51 |    |
| LPeak(max) |      |                     |    |

|                                                                       |                            |                             |
|-----------------------------------------------------------------------|----------------------------|-----------------------------|
| <b>Site Number:</b> NM-3                                              |                            |                             |
| <b>Recorded By:</b> Justin Reynolds, Bollard Acoustical Consultants   |                            |                             |
| <b>Job Number:</b> 192914                                             |                            |                             |
| <b>Date:</b> 3/13/2024                                                |                            |                             |
| <b>Time:</b> 12:57 PM                                                 |                            |                             |
| <b>Location:</b> Inside the parking lot of Waterfront Park            |                            |                             |
| <b>Source of Ambient Noise:</b> Train horns, Traffic, Park activities |                            |                             |
| <b>Noise Data</b>                                                     |                            |                             |
| <b>L<sub>eq</sub> (dB)</b>                                            | <b>L<sub>max</sub>(dB)</b> | <b>L<sub>min</sub> (dB)</b> |
| 51.2                                                                  | 65.4                       | 39.9                        |

| Equipment    |                                   |              |                                         |                              |                                    |      |
|--------------|-----------------------------------|--------------|-----------------------------------------|------------------------------|------------------------------------|------|
| Category     | Type                              | Vendor       | Model                                   | Serial No.                   | Cert. Date                         | Note |
| Sound        | Sound Level Meter                 | Larson Davis | Lxt                                     | 3920                         | 2/20/2024                          |      |
|              | Microphone                        | Larson Davis | 377B02                                  | 143635                       | 2/20/2024                          |      |
|              | Preamp                            | Larson Davis | PRMLXT1L                                | 029308                       | 2/20/2024                          |      |
|              | Calibrator                        | Larson Davis | LD200                                   | 4519                         | 2/20/2024                          |      |
| Weather Data |                                   |              |                                         |                              |                                    |      |
| Est.         | <b>Duration:</b> 10 minutes       |              |                                         | <b>Sky:</b> Partly Cloudy    |                                    |      |
|              | <b>Note:</b> dBA Offset = .9      |              |                                         | <b>Sensor Height (ft):</b> 5 |                                    |      |
|              | <b>Wind Ave Speed (mph / m/s)</b> |              | <b>Temperature (degrees Fahrenheit)</b> |                              | <b>Barometer Pressure (inches)</b> |      |
|              | 8 MPH WNW                         |              | 57                                      |                              | 30.23                              |      |

### **Photo of Measurement Location**



| Summary            |                                                |  |  |
|--------------------|------------------------------------------------|--|--|
| File Name on Meter | LxT_Data.003.s                                 |  |  |
| File Name on PC    | LxT_0003920-20240313 125758-LxT_Data_003.ldbin |  |  |
| Serial Number      | 0003920                                        |  |  |
| Model              | SoundTrack LxT®                                |  |  |
| Firmware Version   | 2.302                                          |  |  |
| User               |                                                |  |  |
| Location           |                                                |  |  |
| Job Description    |                                                |  |  |
| Note               |                                                |  |  |

| Measurement           |                     |  |  |
|-----------------------|---------------------|--|--|
| Description           |                     |  |  |
| Start                 | 2024-03-13 12:57:58 |  |  |
| Stop                  | 2024-03-13 13:07:58 |  |  |
| Duration              | 00:10:00.0          |  |  |
| Run Time              | 00:10:00.0          |  |  |
| Pause                 | 00:00:00.0          |  |  |
| Pre-Calibration       | 2024-03-13 11:51:25 |  |  |
| Post-Calibration      | None                |  |  |
| Calibration Deviation | ---                 |  |  |

| Overall Settings          |             |        |       |  |
|---------------------------|-------------|--------|-------|--|
| RMS Weight                | A Weighting |        |       |  |
| Peak Weight               | Z Weighting |        |       |  |
| Detector                  | Slow        |        |       |  |
| Preamplifier              | PRMLxT1L    |        |       |  |
| Microphone Correction     | Off         |        |       |  |
| Integration Method        | Exponential |        |       |  |
| Overload                  | 121.4 dB    |        |       |  |
|                           | A           | C      | Z     |  |
| Under Range Peak          | 77.7        | 74.7   | 79.7  |  |
| Under Range Limit         | 25.7        | 25.6   | 30.7  |  |
| Noise Floor               | 16.3        | 16.5   | 21.5  |  |
|                           | First       | Second | Third |  |
| Instrument Identification |             |        |       |  |

| Results      |                                  |         |  |
|--------------|----------------------------------|---------|--|
| LASeq        | 51.2                             |         |  |
| LASE         | 79.0                             |         |  |
| EAS          | 8.837 $\mu\text{Pa}^2\text{h}$   |         |  |
| EAS8         | 424.167 $\mu\text{Pa}^2\text{h}$ |         |  |
| EAS40        | 2.121 $\text{mPa}^2\text{h}$     |         |  |
| LZpeak (max) | 2024-03-13 12:57:59              | 97.6 dB |  |
| LASmax       | 2024-03-13 13:00:36              | 65.4 dB |  |

LASmin2024-03-13 13:07:5339.9 dBSEA-99.9 dB

|                   | Exceedance Counts | Duration |
|-------------------|-------------------|----------|
| LAS > 85.0 dB     | 0                 | 0.0 s    |
| LAS > 115.0 dB    | 0                 | 0.0 s    |
| LZpeak > 135.0 dB | 0                 | 0.0 s    |
| LZpeak > 137.0 dB | 0                 | 0.0 s    |
| LZpeak > 140.0 dB | 0                 | 0.0 s    |

LCSeq62.8 dB  
LASeq51.2 dB  
LCSeq - LASeq11.6 dB  
LAleq55.3 dB  
LAeq51.2 dB  
LAleq - LAeq4.1 dB

|            | A    |                     | C  |
|------------|------|---------------------|----|
|            | dB   | Time Stamp          | dB |
| Leq        | 51.2 |                     |    |
| LS(max)    | 65.4 | 2024/03/13 13:00:36 |    |
| LS(min)    | 39.9 | 2024/03/13 13:07:53 |    |
| LPeak(max) |      |                     |    |

# Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/17/2024

Case Description: Martinez Project

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

| Description | Land Use    | Baselines (dBA) |         |       |
|-------------|-------------|-----------------|---------|-------|
|             |             | Daytime         | Evening | Night |
| Demolition  | Residential | 85              | 80      | 80    |

| Description                | Impact Device | Usage(%) | Equipment       |                   | Receptor Distance (feet) |
|----------------------------|---------------|----------|-----------------|-------------------|--------------------------|
|                            |               |          | Spec Lmax (dBA) | Actual Lmax (dBA) |                          |
| Concrete Saw               | No            | 20       |                 | 89.6              | 3550                     |
| Pickup Truck               | No            | 40       |                 | 75                | 3550                     |
| Tractor                    | No            | 40       | 84              |                   | 3550                     |
| All Other Equipment > 5 HP | No            | 50       | 85              |                   | 3550                     |
| Pickup Truck               | No            | 40       |                 | 75                | 3550                     |
| Front End Loader           | No            | 40       |                 | 79.1              | 3550                     |
| Tractor                    | No            | 40       | 84              |                   | 3550                     |

## Results

### Calculated (dBA)

| Equipment                  | *Lmax | Leq  |
|----------------------------|-------|------|
| Concrete Saw               | 52.6  | 45.6 |
| Pickup Truck               | 38    | 34   |
| Tractor                    | 47    | 43   |
| All Other Equipment > 5 HP | 48    | 45   |
| Pickup Truck               | 38    | 34   |
| Front End Loader           | 42.1  | 38.1 |
| Tractor                    | 47    | 43   |
| Total                      | 52.6  | 50.7 |

\*Calculated Lmax is the Loudest value.

# Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/17/2024

Case Description: Martinez Project

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

| Description      | Land Use    | Baselines (dBA) |         |       |
|------------------|-------------|-----------------|---------|-------|
|                  |             | Daytime         | Evening | Night |
| Site Preparation | Residential | 85              | 80      | 80    |

| Description                | Impact Device | Usage(%) | Equipment       |                   | Receptor Distance (feet) |
|----------------------------|---------------|----------|-----------------|-------------------|--------------------------|
|                            |               |          | Spec Lmax (dBA) | Actual Lmax (dBA) |                          |
| Excavator                  | No            | 40       |                 | 80.7              | 3550                     |
| Excavator                  | No            | 40       |                 | 80.7              | 3550                     |
| Roller                     | No            | 20       |                 | 80                | 3550                     |
| Grader                     | No            | 40       | 85              |                   | 3550                     |
| Pickup Truck               | No            | 40       |                 | 75                | 3550                     |
| Grader                     | No            | 40       | 85              |                   | 3550                     |
| All Other Equipment > 5 HP | No            | 50       | 85              |                   | 3550                     |
| Pickup Truck               | No            | 40       |                 | 75                | 3550                     |
| Pickup Truck               | No            | 40       |                 | 75                | 3550                     |

## Results

### Calculated (dBA)

| Equipment                  | *Lmax | Leq  |
|----------------------------|-------|------|
| Excavator                  | 43.7  | 39.7 |
| Excavator                  | 43.7  | 39.7 |
| Roller                     | 43    | 36   |
| Grader                     | 48    | 44   |
| Pickup Truck               | 38    | 34   |
| Grader                     | 48    | 44   |
| All Other Equipment > 5 HP | 48    | 45   |
| Pickup Truck               | 38    | 34   |
| Pickup Truck               | 38    | 34   |
| Total                      | 48    | 50.5 |

\*Calculated Lmax is the Loudest value.

# Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/17/2024

Case Description: Martinez Project

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

| Description         | Land Use    | Baselines (dBA) |         |       |
|---------------------|-------------|-----------------|---------|-------|
|                     |             | Daytime         | Evening | Night |
| Pipeline Relocation | Residential | 85              | 80      | 80    |

| Description                | Impact Device | Usage(%) | Equipment       |                   | Receptor Distance (feet) |
|----------------------------|---------------|----------|-----------------|-------------------|--------------------------|
|                            |               |          | Spec Lmax (dBA) | Actual Lmax (dBA) |                          |
| Excavator                  | No            | 40       |                 | 80.7              | 3550                     |
| Excavator                  | No            | 40       |                 | 80.7              | 3550                     |
| Pickup Truck               | No            | 40       |                 | 75                | 3550                     |
| Pickup Truck               | No            | 40       |                 | 75                | 3550                     |
| Grader                     | No            | 40       |                 | 85                | 3550                     |
| All Other Equipment > 5 HP | No            | 50       |                 | 85                | 3550                     |
| Pumps                      | No            | 50       |                 | 80.9              | 3550                     |
| Front End Loader           | No            | 40       |                 | 79.1              | 3550                     |
| Pavement Scarafier         | No            | 20       |                 | 89.5              | 3550                     |
| Tractor                    | No            | 40       |                 | 84                | 3550                     |
| Slurry Trenching Machine   | No            | 50       |                 | 80.4              | 3550                     |
| Welder / Torch             | No            | 40       |                 | 74                | 3550                     |
| Pickup Truck               | No            | 40       |                 | 75                | 3550                     |

## Results

### Calculated (dBA)

| Equipment                  | *Lmax | Leq  |
|----------------------------|-------|------|
| Excavator                  | 43.7  | 39.7 |
| Excavator                  | 43.7  | 39.7 |
| Pickup Truck               | 38    | 34   |
| Pickup Truck               | 38    | 34   |
| Grader                     | 48    | 44   |
| All Other Equipment > 5 HP | 48    | 45   |
| Pumps                      | 43.9  | 40.9 |
| Front End Loader           | 42.1  | 38.1 |
| Pavement Scarafier         | 52.5  | 45.5 |
| Tractor                    | 47    | 43   |
| Slurry Trenching Machine   | 43.3  | 40.3 |
| Welder / Torch             | 37    | 33   |
| Pickup Truck               | 38    | 34   |
| Total                      | 52.5  | 52.3 |

\*Calculated Lmax is the Loudest value.

# Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/17/2024

Case Description: Martinez Project

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

| Description                    | Land Use    | Baselines (dBA) |         |       |
|--------------------------------|-------------|-----------------|---------|-------|
|                                |             | Daytime         | Evening | Night |
| Civil and Mechanical Construct | Residential | 85              | 80      | 80    |

| Description                | Impact Device | Usage(%) | Equipment       |                   | Receptor Distance (feet) |
|----------------------------|---------------|----------|-----------------|-------------------|--------------------------|
|                            |               |          | Spec Lmax (dBA) | Actual Lmax (dBA) |                          |
| Man Lift                   | No            | 20       |                 | 74.7              | 3550                     |
| Concrete Saw               | No            | 20       |                 | 89.6              | 3550                     |
| All Other Equipment > 5 HP | No            | 50       | 85              |                   | 3550                     |
| Crane                      | No            | 16       |                 | 80.6              | 3550                     |
| Excavator                  | No            | 40       |                 | 80.7              | 3550                     |
| Pickup Truck               | No            | 40       |                 | 75                | 3550                     |
| Grader                     | No            | 40       | 85              |                   | 3550                     |
| Paver                      | No            | 50       |                 | 77.2              | 3550                     |
| Pumps                      | No            | 50       |                 | 80.9              | 3550                     |
| Roller                     | No            | 20       |                 | 80                | 3550                     |
| Pickup Truck               | No            | 40       |                 | 75                | 3550                     |
| Pickup Truck               | No            | 40       |                 | 75                | 3550                     |
| Front End Loader           | No            | 40       |                 | 79.1              | 3550                     |
| Pavement Scarafier         | No            | 20       |                 | 89.5              | 3550                     |
| Tractor                    | No            | 40       | 84              |                   | 3550                     |
| Slurry Trenching Machine   | No            | 50       |                 | 80.4              | 3550                     |
| Welder / Torch             | No            | 40       |                 | 74                | 3550                     |

## Results

### Calculated (dBA)

| Equipment                  | *Lmax | Leq  |
|----------------------------|-------|------|
| Man Lift                   | 37.7  | 30.7 |
| Concrete Saw               | 52.6  | 45.6 |
| All Other Equipment > 5 HP | 48    | 45   |
| Crane                      | 43.5  | 35.6 |
| Excavator                  | 43.7  | 39.7 |
| Pickup Truck               | 38    | 34   |
| Grader                     | 48    | 44   |
| Paver                      | 40.2  | 37.2 |
| Pumps                      | 43.9  | 40.9 |
| Roller                     | 43    | 36   |
| Pickup Truck               | 38    | 34   |

|                          |      |      |
|--------------------------|------|------|
| Pickup Truck             | 38   | 34   |
| Front End Loader         | 42.1 | 38.1 |
| Pavement Scarafier       | 52.5 | 45.5 |
| Tractor                  | 47   | 43   |
| Slurry Trenching Machine | 43.3 | 40.3 |
| Welder / Torch           | 37   | 33   |
| Total                    | 52.6 | 53.2 |

\*Calculated Lmax is the Loudest value.

# Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/17/2024

Case Description: Martinez Project

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

| Description                                | Land Use    | Baselines (dBA) |         |       |
|--------------------------------------------|-------------|-----------------|---------|-------|
|                                            |             | Daytime         | Evening | Night |
| Electrical, Fire System, and Miscellaneous | Residential | 85              | 80      | 80    |

| Description                | Impact Device | Usage(%) | Equipment       |                   | Receptor Distance (feet) |
|----------------------------|---------------|----------|-----------------|-------------------|--------------------------|
|                            |               |          | Spec Lmax (dBA) | Actual Lmax (dBA) |                          |
| Man Lift                   | No            | 20       |                 | 74.7              | 3550                     |
| Compressor (air)           | No            | 40       |                 | 77.7              | 3550                     |
| Tractor                    | No            | 40       | 84              |                   | 3550                     |
| Crane                      | No            | 16       |                 | 80.6              | 3550                     |
| All Other Equipment > 5 HP | No            | 50       | 85              |                   | 3550                     |
| Pickup Truck               | No            | 40       |                 | 75                | 3550                     |
| Paver                      | No            | 50       |                 | 77.2              | 3550                     |

## Results

### Calculated (dBA)

| Equipment                  | *Lmax | Leq  |
|----------------------------|-------|------|
| Man Lift                   | 37.7  | 30.7 |
| Compressor (air)           | 40.6  | 36.7 |
| Tractor                    | 47    | 43   |
| Crane                      | 43.5  | 35.6 |
| All Other Equipment > 5 HP | 48    | 45   |
| Pickup Truck               | 38    | 34   |
| Paver                      | 40.2  | 37.2 |
| Total                      | 48    | 48.4 |

\*Calculated Lmax is the Loudest value.

# Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 5/20/2024  
Case Description: Martinez Project

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

| Description | Land Use   | Baselines (dBA) |         |       |
|-------------|------------|-----------------|---------|-------|
|             |            | Daytime         | Evening | Night |
| Demolition  | Commercial |                 | 85      | 80    |
|             |            |                 |         | 80    |

| Description                | Impact Device | Usage(%) | Equipment Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | Estimated Shielding (dBA) |
|----------------------------|---------------|----------|---------------------------|-------------------|--------------------------|---------------------------|
|                            |               |          |                           |                   |                          |                           |
| Concrete Saw               | No            | 20       |                           | 89.6              | 275                      | 0                         |
| Pickup Truck               | No            | 40       |                           | 75                | 275                      | 0                         |
| Tractor                    | No            | 40       |                           | 84                | 275                      | 0                         |
| All Other Equipment > 5 HP | No            | 50       |                           | 85                | 275                      | 0                         |
| Pickup Truck               | No            | 40       |                           | 75                | 275                      | 0                         |
| Front End Loader           | No            | 40       |                           | 79.1              | 275                      | 0                         |
| Tractor                    | No            | 40       |                           | 84                | 275                      | 0                         |

## Results

### Calculated (dBA)

| Equipment                  | *Lmax | Leq  |
|----------------------------|-------|------|
| Concrete Saw               | 59.9  | 52.9 |
| Pickup Truck               | 62.9  | 58.9 |
| Tractor                    | 69.2  | 65.2 |
| All Other Equipment > 5 HP | 65.7  | 57.8 |
| Pickup Truck               | 70.2  | 67.2 |
| Front End Loader           | 60.2  | 56.2 |
| Tractor                    | 62.4  | 59.4 |
| Total                      | 70.2  | 70.6 |

\*Calculated Lmax is the Loudest value.

## ---- Receptor #2 ----

| Description | Land Use   | Baselines (dBA) |         |       |
|-------------|------------|-----------------|---------|-------|
|             |            | Daytime         | Evening | Night |
| Demolition  | Commercial |                 | 85      | 80    |
|             |            |                 |         | 80    |

| Description                | Impact Device | Usage(%) | Equipment Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | Estimated Shielding (dBA) |
|----------------------------|---------------|----------|---------------------------|-------------------|--------------------------|---------------------------|
|                            |               |          |                           |                   |                          |                           |
| Concrete Saw               | No            | 20       |                           | 89.6              | 8850                     | 0                         |
| Pickup Truck               | No            | 40       |                           | 75                | 8850                     | 0                         |
| Tractor                    | No            | 40       |                           | 84                | 8850                     | 0                         |
| All Other Equipment > 5 HP | No            | 50       |                           | 85                | 8850                     | 0                         |
| Pickup Truck               | No            | 40       |                           | 75                | 8850                     | 0                         |
| Front End Loader           | No            | 40       |                           | 79.1              | 8850                     | 0                         |
| Tractor                    | No            | 40       |                           | 84                | 8850                     | 0                         |

## Results

### Calculated (dBA)

| Equipment                  | *Lmax | Leq  |
|----------------------------|-------|------|
| Concrete Saw               | 44.6  | 37.6 |
| Pickup Truck               | 30    | 26.1 |
| Tractor                    | 39    | 35.1 |
| All Other Equipment > 5 HP | 40    | 37   |
| Pickup Truck               | 30    | 26.1 |
| Front End Loader           | 34.2  | 30.2 |
| Tractor                    | 39    | 35.1 |
| Total                      | 44.6  | 42.8 |

\*Calculated Lmax is the Loudest value.

# Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 20-May  
Case Description: Martinez Project

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

| Description                | Land Use   | Baselines (dBA) |                          |                   |                          |
|----------------------------|------------|-----------------|--------------------------|-------------------|--------------------------|
|                            |            | Daytime         | Evening                  | Night             |                          |
| Site Preparation           | Commercial |                 | 85                       | 80                | 80                       |
| Description                | Land Use   | Equipment       |                          |                   |                          |
|                            |            | Impact Device   | Spec Lmax Usage(%) (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) |
| Excavator                  |            | No              | 40                       | 80.7              | 275                      |
| Excavator                  |            | No              | 40                       | 80.7              | 275                      |
| Roller                     |            | No              | 20                       | 80                | 275                      |
| Grader                     |            | No              | 40                       | 85                | 275                      |
| Pickup Truck               |            | No              | 40                       | 75                | 275                      |
| Grader                     |            | No              | 40                       | 85                | 275                      |
| All Other Equipment > 5 HP |            | No              | 50                       | 85                | 275                      |
| Pickup Truck               |            | No              | 40                       | 75                | 275                      |
| Pickup Truck               |            | No              | 40                       | 75                | 275                      |

## Results

| Calculated (dBA)                       |       |      |
|----------------------------------------|-------|------|
| Equipment                              | *Lmax | Leq  |
| Excavator                              | 74.8  | 67.8 |
| Excavator                              | 60.2  | 56.2 |
| Roller                                 | 69.2  | 65.2 |
| Grader                                 | 70.2  | 67.2 |
| Pickup Truck                           | 60.2  | 56.2 |
| Grader                                 | 64.3  | 60.3 |
| All Other Equipment > 5 HP             | 69.2  | 65.2 |
| Pickup Truck                           | 62.4  | 59.4 |
| Pickup Truck                           | 66.1  | 63.1 |
| Total                                  | 74.8  | 73   |
| *Calculated Lmax is the Loudest value. |       |      |

## ---- Receptor #2 ----

| Description                | Land Use   | Baselines (dBA) |                          |                   |                          |
|----------------------------|------------|-----------------|--------------------------|-------------------|--------------------------|
|                            |            | Daytime         | Evening                  | Night             |                          |
| Site Preparation           | Commercial |                 | 85                       | 80                | 80                       |
| Description                | Land Use   | Equipment       |                          |                   |                          |
|                            |            | Impact Device   | Spec Lmax Usage(%) (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) |
| Excavator                  |            | No              | 40                       | 80.7              | 8850                     |
| Excavator                  |            | No              | 40                       | 80.7              | 8850                     |
| Roller                     |            | No              | 20                       | 80                | 8850                     |
| Grader                     |            | No              | 40                       | 85                | 8850                     |
| Pickup Truck               |            | No              | 40                       | 75                | 8850                     |
| Grader                     |            | No              | 40                       | 85                | 8850                     |
| All Other Equipment > 5 HP |            | No              | 50                       | 85                | 8850                     |
| Pickup Truck               |            | No              | 40                       | 75                | 8850                     |
| Pickup Truck               |            | No              | 40                       | 75                | 8850                     |

## Results

| Calculated (dBA)                       |       |      |
|----------------------------------------|-------|------|
| Equipment                              | *Lmax | Leq  |
| Excavator                              | 35.8  | 31.8 |
| Excavator                              | 35.8  | 31.8 |
| Roller                                 | 35    | 28.1 |
| Grader                                 | 40    | 36.1 |
| Pickup Truck                           | 30    | 26.1 |
| Grader                                 | 40    | 36.1 |
| All Other Equipment > 5 HP             | 40    | 37   |
| Pickup Truck                           | 30    | 26.1 |
| Pickup Truck                           | 30    | 26.1 |
| Total                                  | 40    | 42.5 |
| *Calculated Lmax is the Loudest value. |       |      |

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 20-May  
Case Description: Martinez Project

---- Receptor #1 ----

| Description                | Land Use      | Baselines (dBA) |                 |                   |                          |                           |   |
|----------------------------|---------------|-----------------|-----------------|-------------------|--------------------------|---------------------------|---|
|                            |               | Daytime         | Evening         | Night             |                          |                           |   |
| Pipeline Relocation        | Commercial    | 85              | 80              | 80                |                          |                           |   |
| Equipment                  |               |                 |                 |                   |                          |                           |   |
| Description                | Impact Device | Usage(%)        | Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | Estimated Shielding (dBA) |   |
|                            |               |                 |                 |                   |                          |                           |   |
| Excavator                  | No            | 40              |                 | 80.7              | 275                      |                           | 0 |
| Excavator                  | No            | 40              |                 | 80.7              | 275                      |                           | 0 |
| Pickup Truck               | No            | 40              |                 | 75                | 275                      |                           | 0 |
| Pickup Truck               | No            | 40              |                 | 75                | 275                      |                           | 0 |
| Grader                     | No            | 40              |                 | 85                | 275                      |                           | 0 |
| All Other Equipment > 5 HP | No            | 50              |                 | 85                | 275                      |                           | 0 |
| Pumps                      | No            | 50              |                 | 80.9              | 275                      |                           | 0 |
| Front End Loader           | No            | 40              |                 | 79.1              | 275                      |                           | 0 |
| Pavement Scarafier         | No            | 20              |                 | 89.5              | 275                      |                           | 0 |
| Tractor                    | No            | 40              |                 | 84                | 275                      |                           | 0 |
| Slurry Trenching Machine   | No            | 50              |                 | 80.4              | 275                      |                           | 0 |
| Welder / Torch             | No            | 40              |                 | 74                | 275                      |                           | 0 |
| Pickup Truck               | No            | 40              |                 | 75                | 275                      |                           | 0 |

Results

Calculated (dBA)

| Equipment                  | *Lmax | Leq  |
|----------------------------|-------|------|
| Excavator                  | 65.9  | 61.9 |
| Excavator                  | 65.9  | 61.9 |
| Pickup Truck               | 60.2  | 56.2 |
| Pickup Truck               | 60.2  | 56.2 |
| Grader                     | 70.2  | 66.2 |
| All Other Equipment > 5 HP | 70.2  | 67.2 |
| Pumps                      | 66.1  | 63.1 |
| Front End Loader           | 64.3  | 60.3 |
| Pavement Scarafier         | 74.7  | 67.7 |
| Tractor                    | 69.2  | 65.2 |
| Slurry Trenching Machine   | 65.6  | 62.5 |
| Welder / Torch             | 59.2  | 55.2 |
| Pickup Truck               | 60.2  | 56.2 |
| Total                      | 74.7  | 74.5 |

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

| Description                | Land Use      | Baselines (dBA) |                 |                   |                          |                           |   |
|----------------------------|---------------|-----------------|-----------------|-------------------|--------------------------|---------------------------|---|
|                            |               | Daytime         | Evening         | Night             |                          |                           |   |
| Pipeline Relocation        | Commercial    | 85              | 80              | 80                |                          |                           |   |
| Equipment                  |               |                 |                 |                   |                          |                           |   |
| Description                | Impact Device | Usage(%)        | Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | Estimated Shielding (dBA) |   |
|                            |               |                 |                 |                   |                          |                           |   |
| Excavator                  | No            | 40              |                 | 80.7              | 8850                     |                           | 0 |
| Excavator                  | No            | 40              |                 | 80.7              | 8850                     |                           | 0 |
| Pickup Truck               | No            | 40              |                 | 75                | 8850                     |                           | 0 |
| Pickup Truck               | No            | 40              |                 | 75                | 8850                     |                           | 0 |
| Grader                     | No            | 40              |                 | 85                | 8850                     |                           | 0 |
| All Other Equipment > 5 HP | No            | 50              |                 | 85                | 8850                     |                           | 0 |
| Pumps                      | No            | 50              |                 | 80.9              | 8850                     |                           | 0 |
| Front End Loader           | No            | 40              |                 | 79.1              | 8850                     |                           | 0 |
| Pavement Scarafier         | No            | 20              |                 | 89.5              | 8850                     |                           | 0 |
| Tractor                    | No            | 40              |                 | 84                | 8850                     |                           | 0 |
| Slurry Trenching Machine   | No            | 50              |                 | 80.4              | 8850                     |                           | 0 |
| Welder / Torch             | No            | 40              |                 | 74                | 8850                     |                           | 0 |
| Pickup Truck               | No            | 40              |                 | 75                | 8850                     |                           | 0 |

Results

Calculated (dBA)

| Equipment                  | *Lmax | Leq  |
|----------------------------|-------|------|
| Excavator                  | 35.8  | 31.8 |
| Excavator                  | 35.8  | 31.8 |
| Pickup Truck               | 30    | 26.1 |
| Pickup Truck               | 30    | 26.1 |
| Grader                     | 40    | 36.1 |
| All Other Equipment > 5 HP | 40    | 37   |
| Pumps                      | 36    | 33   |
| Front End Loader           | 34.2  | 30.2 |
| Pavement Scarafier         | 44.5  | 37.6 |
| Tractor                    | 39    | 35.1 |
| Slurry Trenching Machine   | 35.4  | 32.4 |
| Welder / Torch             | 29    | 25.1 |
| Pickup Truck               | 30    | 26.1 |
| Total                      | 44.5  | 44.4 |

\*Calculated Lmax is the Loudest value.

# Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 20-May  
Case Description: Martinez Project

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

| Description                         | Land Use | Baselines (dBA) |         |       |
|-------------------------------------|----------|-----------------|---------|-------|
|                                     |          | Daytime         | Evening | Night |
| Electrical, Fire System, Commercial |          | 85              | 80      | 80    |

| Description                | Impact Device | Usage(%) | Equipment Spec |  | Actual Lmax (dBA) | Receptor Distance (feet) | Estimated Shielding (dBA) |
|----------------------------|---------------|----------|----------------|--|-------------------|--------------------------|---------------------------|
|                            |               |          | Lmax (dBA)     |  |                   |                          |                           |
| Man Lift                   | No            | 20       |                |  | 74.7              | 275                      | 0                         |
| Compressor (air)           | No            | 40       |                |  | 77.7              | 275                      | 0                         |
| Tractor                    | No            | 40       |                |  | 84                | 275                      | 0                         |
| Crane                      | No            | 16       |                |  | 80.6              | 275                      | 0                         |
| All Other Equipment > 5 HP | No            | 50       |                |  | 85                | 275                      | 0                         |
| Pickup Truck               | No            | 40       |                |  | 75                | 275                      | 0                         |
| Paver                      | No            | 50       |                |  | 77.2              | 275                      | 0                         |

## Results

### Calculated (dBA)

| Equipment                  | *Lmax | Leq  |
|----------------------------|-------|------|
| Man Lift                   | 59.9  | 52.9 |
| Compressor (air)           | 62.9  | 58.9 |
| Tractor                    | 69.2  | 65.2 |
| Crane                      | 65.7  | 57.8 |
| All Other Equipment > 5 HP | 70.2  | 67.2 |
| Pickup Truck               | 60.2  | 56.2 |
| Paver                      | 62.4  | 59.4 |
| Total                      | 70.2  | 70.6 |

\*Calculated Lmax is the Loudest value.

## ---- Receptor #2 ----

| Description                         | Land Use | Baselines (dBA) |         |       |
|-------------------------------------|----------|-----------------|---------|-------|
|                                     |          | Daytime         | Evening | Night |
| Electrical, Fire System, Commercial |          | 85              | 80      | 80    |

| Description                | Impact Device | Usage(%) | Equipment Spec |  | Actual Lmax (dBA) | Receptor Distance (feet) | Estimated Shielding (dBA) |
|----------------------------|---------------|----------|----------------|--|-------------------|--------------------------|---------------------------|
|                            |               |          | Lmax (dBA)     |  |                   |                          |                           |
| Man Lift                   | No            | 20       |                |  | 74.7              | 8850                     | 0                         |
| Compressor (air)           | No            | 40       |                |  | 77.7              | 8850                     | 0                         |
| Tractor                    | No            | 40       |                |  | 84                | 8850                     | 0                         |
| Crane                      | No            | 16       |                |  | 80.6              | 8850                     | 0                         |
| All Other Equipment > 5 HP | No            | 50       |                |  | 85                | 8850                     | 0                         |
| Pickup Truck               | No            | 40       |                |  | 75                | 8850                     | 0                         |
| Paver                      | No            | 50       |                |  | 77.2              | 8850                     | 0                         |

## Results

### Calculated (dBA)

| Equipment                  | *Lmax | Leq  |
|----------------------------|-------|------|
| Man Lift                   | 29.7  | 22.8 |
| Compressor (air)           | 32.7  | 28.7 |
| Tractor                    | 39    | 35.1 |
| Crane                      | 35.6  | 27.6 |
| All Other Equipment > 5 HP | 40    | 37   |
| Pickup Truck               | 30    | 26.1 |
| Paver                      | 32.3  | 29.3 |
| Total                      | 40    | 40.4 |

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 5/20/2024  
Case Description: Martinez Project

|                            |            | ---- Receptor #1 ---- |            |                           |
|----------------------------|------------|-----------------------|------------|---------------------------|
|                            |            | Baselines (dBA)       |            |                           |
| Description                | Land Use   | Daytime               | Evening    | Night                     |
| Civil and Mechanical       | Commercial | 85                    | 80         | 80                        |
|                            |            | Equipment             |            |                           |
|                            |            | Impact                | Spec       | Actual                    |
| Description                | Device     | Usage(%)              | Lmax (dBA) | Lmax (dBA)                |
| Man Lift                   | No         | 20                    |            | 74.7                      |
| Concrete Saw               | No         | 20                    |            | 89.6                      |
| All Other Equipment > 5 HP | No         | 50                    |            | 85                        |
| Crane                      | No         | 16                    |            | 80.6                      |
| Excavator                  | No         | 40                    |            | 80.7                      |
| Pickup Truck               | No         | 40                    |            | 75                        |
| Grader                     | No         | 40                    |            | 85                        |
| Paver                      | No         | 50                    |            | 77.2                      |
| Pumps                      | No         | 50                    |            | 80.9                      |
| Roller                     | No         | 20                    |            | 80                        |
| Pickup Truck               | No         | 40                    |            | 75                        |
| Pickup Truck               | No         | 40                    |            | 75                        |
| Front End Loader           | No         | 40                    |            | 79.1                      |
| Pavement Scarafier         | No         | 20                    |            | 89.5                      |
| Tractor                    | No         | 40                    |            | 84                        |
| Slurry Trenching Machine   | No         | 50                    |            | 80.4                      |
| Welder / Torch             | No         | 40                    |            | 74                        |
|                            |            |                       |            | 275                       |
|                            |            |                       |            | Estimated Shielding (dBA) |

|                            |       | Results          |  |
|----------------------------|-------|------------------|--|
|                            |       | Calculated (dBA) |  |
| Equipment                  | *Lmax | Leq              |  |
| Man Lift                   | 59.9  | 52.9             |  |
| Concrete Saw               | 74.8  | 67.8             |  |
| All Other Equipment > 5 HP | 70.2  | 67.2             |  |
| Crane                      | 65.7  | 57.8             |  |
| Excavator                  | 65.9  | 61.9             |  |
| Pickup Truck               | 60.2  | 56.2             |  |
| Grader                     | 70.2  | 66.2             |  |
| Paver                      | 62.4  | 59.4             |  |
| Pumps                      | 66.1  | 63.1             |  |
| Roller                     | 65.2  | 58.2             |  |
| Pickup Truck               | 60.2  | 56.2             |  |
| Pickup Truck               | 60.2  | 56.2             |  |
| Front End Loader           | 64.3  | 60.3             |  |
| Pavement Scarafier         | 74.7  | 67.7             |  |
| Tractor                    | 69.2  | 65.2             |  |
| Slurry Trenching Machine   | 65.6  | 62.5             |  |
| Welder / Torch             | 59.2  | 55.2             |  |
| Total                      | 74.8  | 75.4             |  |

\*Calculated Lmax is the Loudest value.

|                            |            | ---- Receptor #2 ---- |            |                           |
|----------------------------|------------|-----------------------|------------|---------------------------|
|                            |            | Baselines (dBA)       |            |                           |
| Description                | Land Use   | Daytime               | Evening    | Night                     |
| Civil and Mechanical       | Commercial | 85                    | 80         | 80                        |
|                            |            | Equipment             |            |                           |
|                            |            | Impact                | Spec       | Actual                    |
| Description                | Device     | Usage(%)              | Lmax (dBA) | Lmax (dBA)                |
| Man Lift                   | No         | 20                    |            | 74.7                      |
| Concrete Saw               | No         | 20                    |            | 89.6                      |
| All Other Equipment > 5 HP | No         | 50                    |            | 85                        |
| Crane                      | No         | 16                    |            | 80.6                      |
| Excavator                  | No         | 40                    |            | 80.7                      |
| Pickup Truck               | No         | 40                    |            | 75                        |
| Grader                     | No         | 40                    |            | 85                        |
| Paver                      | No         | 50                    |            | 77.2                      |
| Pumps                      | No         | 50                    |            | 80.9                      |
| Roller                     | No         | 20                    |            | 80                        |
| Pickup Truck               | No         | 40                    |            | 75                        |
| Pickup Truck               | No         | 40                    |            | 75                        |
| Front End Loader           | No         | 40                    |            | 79.1                      |
| Pavement Scarafier         | No         | 20                    |            | 89.5                      |
| Tractor                    | No         | 40                    |            | 84                        |
| Slurry Trenching Machine   | No         | 50                    |            | 80.4                      |
| Welder / Torch             | No         | 40                    |            | 74                        |
|                            |            |                       |            | 8850                      |
|                            |            |                       |            | Estimated Shielding (dBA) |

|                            |       | Results          |  |
|----------------------------|-------|------------------|--|
|                            |       | Calculated (dBA) |  |
| Equipment                  | *Lmax | Leq              |  |
| Man Lift                   | 29.7  | 22.8             |  |
| Concrete Saw               | 44.6  | 37.6             |  |
| All Other Equipment > 5 HP | 40    | 37               |  |
| Crane                      | 35.6  | 27.6             |  |
| Excavator                  | 35.8  | 31.8             |  |
| Pickup Truck               | 30    | 26.1             |  |
| Grader                     | 40    | 36.1             |  |
| Paver                      | 32.3  | 29.3             |  |
| Pumps                      | 36    | 33               |  |
| Roller                     | 35    | 28.1             |  |
| Pickup Truck               | 30    | 26.1             |  |
| Pickup Truck               | 30    | 26.1             |  |
| Front End Loader           | 34.2  | 30.2             |  |
| Pavement Scarafier         | 44.5  | 37.6             |  |
| Tractor                    | 39    | 35.1             |  |
| Slurry Trenching Machine   | 35.4  | 32.4             |  |
| Welder / Torch             | 29    | 25.1             |  |
| Total                      | 44.6  | 45.3             |  |

\*Calculated Lmax is the Loudest value.