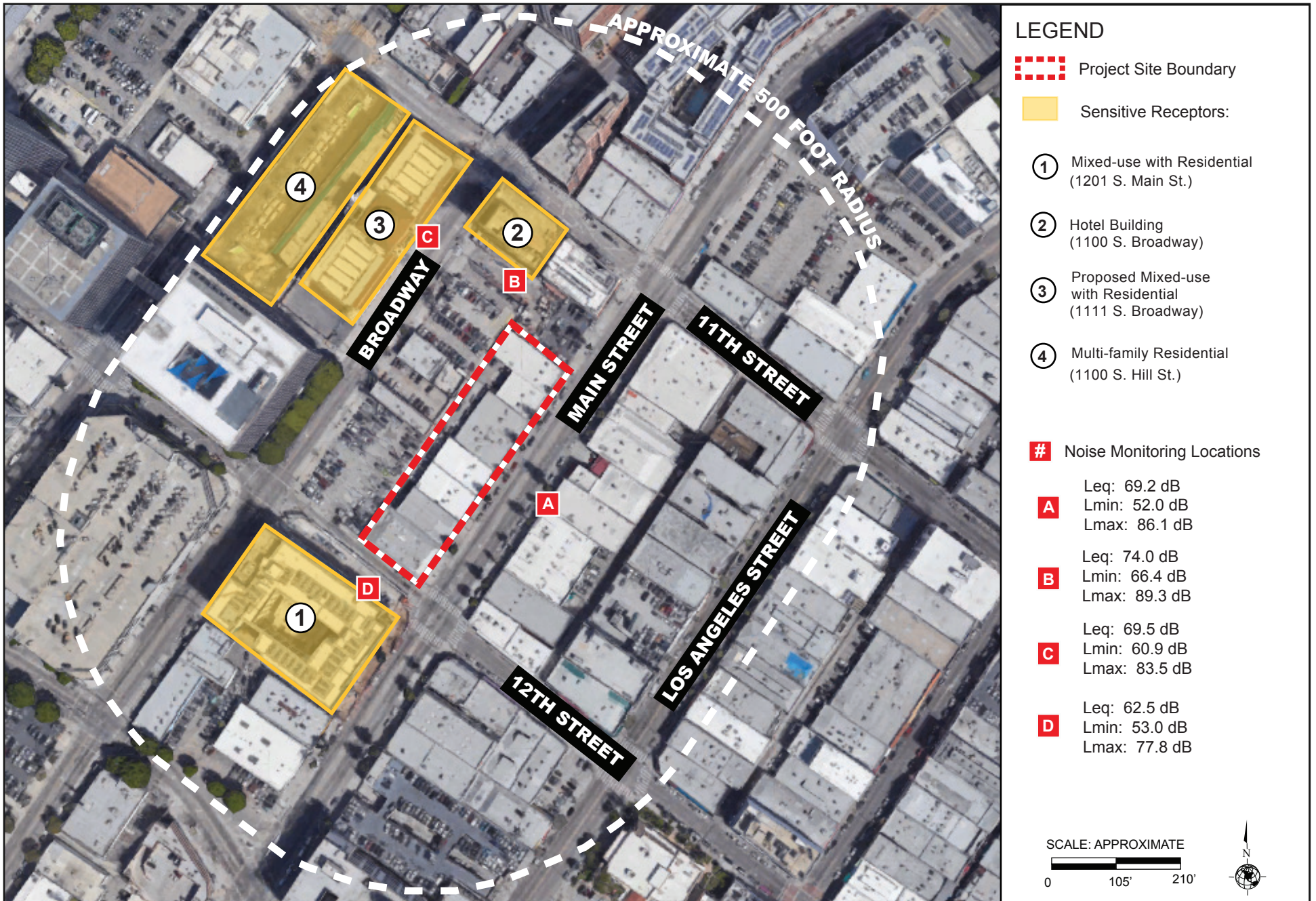


APPENDIX I:
NOISE MONITORING DATA AND CALCULATIONS WORKSHEETS

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Source: Google Earth, Aerial View, 2019.

Summary

File Name on Meter 831_Data.190
Serial Number 0003748
Model Model 831
Firmware Version 2.311
User Todd Davis
Job Description Main Street Tower
Location A: East side of Main Street between 11th and 12th Street
Noise Sources: Moderate vehicle and pedestrian traffic, bus routes and overhead planes


Measurement

Description
Start 2019-04-01 11:50:40
Stop 2019-04-01 12:05:40
Duration 00:15:00.0
Run Time 00:15:00.0
Pause 00:00:00.0

Pre Calibration 2019-04-01 11:28:08
Post Calibration None
Calibration Deviation ---

Overall Settings

| | | | |
|------------------------------|-------------|----------|----------|
| RMS Weight | A Weighting | | |
| Peak Weight | Z Weighting | | |
| Detector | Slow | | |
| Preamp | PRM831 | | |
| Microphone Correction | Off | | |
| Integration Method | Linear | | |
| Gain | 0.0 dB | | |
| Overload | 143.1 dB | | |
| | A | C | Z |
| Under Range Peak | 75.5 | 72.5 | 77.5 dB |
| Under Range Limit | 26.1 | 26.4 | 31.8 dB |
| Noise Floor | 17.0 | 17.3 | 22.4 dB |

Results

| | | |
|---------------------|----------------------------------|----------|
| LAeq | 69.2 dB | |
| LAE | 98.7 dB | |
| EA | 830.278 $\mu\text{Pa}^2\text{h}$ | |
| LZpeak (max) | 2019-04-01 12:04:24 | 108.1 dB |
| LASmax | 2019-04-01 11:56:36 | 86.1 dB |
| LASmin | 2019-04-01 11:54:04 | 52.0 dB |
| SEA | -99.9 dB | |

| | | |
|--|----|---------|
| LAS > 65.0 dB (Exceedance Counts / Duration) | 28 | 475.7 s |
| LAS > 85.0 dB (Exceedance Counts / Duration) | 1 | 2.7 s |
| LZpeak > 135.0 dB (Exceedance Counts / Duration) | 0 | 0.0 s |
| LZpeak > 137.0 dB (Exceedance Counts / Duration) | 0 | 0.0 s |
| LZpeak > 140.0 dB (Exceedance Counts / Duration) | 0 | 0.0 s |

| | | | | |
|------------------------|------------|-------------------------|-------------|-------------------------|
| Community Noise | Ldn | LDay 07:00-22:00 | Lden | LDay 07:00-19:00 |
| | 69.2 | 69.2 | 69.2 | 69.2 |

| | |
|---------------------|---------|
| LCeq | 78.8 dB |
| LAeq | 69.2 dB |
| LCeq - LAeq | 9.6 dB |
| LAleq | 70.8 dB |
| LAeq | 69.2 dB |
| LAleq - LAeq | 1.7 dB |

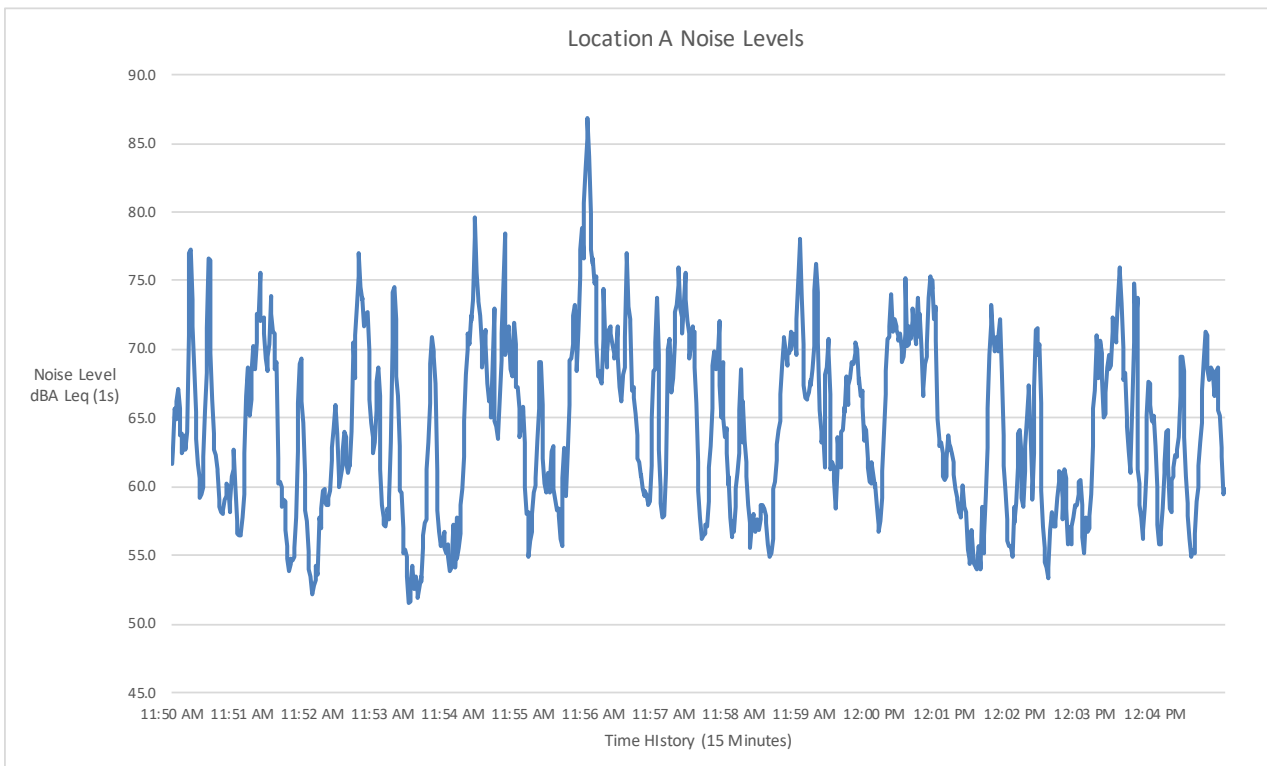
Leq
 LS(max)
 LF(max)
 LI(max)
 LS(min)
 LF(min)
 LI(min)
 LPeak(max)

| A | |
|------|---------------------|
| dB | Time Stamp |
| 69.2 | |
| 86.1 | 2019/04/01 11:56:36 |
| 87.8 | 2019/04/01 11:56:35 |
| 88.9 | 2019/04/01 11:56:35 |
| 52.0 | 2019/04/01 11:54:04 |
| 51.0 | 2019/04/01 11:54:03 |
| 51.5 | 2019/04/01 11:54:03 |
| 98.8 | 2019/04/01 11:56:35 |

Overloads 0
 Overload Duration 0.0 s

Statistics

| | |
|----------|---------|
| LAS5.00 | 74.3 dB |
| LAS10.00 | 72.4 dB |
| LAS33.30 | 68.4 dB |
| LAS50.00 | 64.5 dB |
| LAS66.60 | 60.8 dB |
| LAS90.00 | 56.6 dB |



Summary

File Name on Meter 831_Data.192
Serial Number 0003748
Model Model 831
Firmware Version 2.311
User Todd Davis
Job Description Main Street Tower
Location B: North side of parking lot, South of Sensitive Receptor 3
Noise Source: Periodic vehicle and pedestrian traffic, active construction site to the North


Measurement

Description
Start 2019-04-01 12:31:11
Stop 2019-04-01 12:46:11
Duration 00:15:00.0
Run Time 00:15:00.0
Pause 00:00:00.0

Pre Calibration 2019-04-01 11:28:08
Post Calibration None
Calibration Deviation ---

Overall Settings

| | | | | |
|------------------------------|-------------|----------|----------------|--|
| RMS Weight | A Weighting | | | |
| Peak Weight | Z Weighting | | | |
| Detector | Slow | | | |
| Preamp | PRM831 | | | |
| Microphone Correction | Off | | | |
| Integration Method | Linear | | | |
| Gain | 0.0 dB | | | |
| Overload | 143.1 dB | | | |
| | A | C | Z | |
| Under Range Peak | 75.5 | 72.5 | 77.5 dB | |
| Under Range Limit | 26.1 | 26.4 | 31.8 dB | |
| Noise Floor | 17.0 | 17.3 | 22.4 dB | |

Results

| | | | |
|--|--------------------------|----------|--|
| LAeq | 74.0 dB | | |
| LAE | 103.6 dB | | |
| EA | 2.536 mPa ² h | | |
| LZpeak (max) | 2019-04-01 12:40:43 | 110.5 dB | |
| LASmax | 2019-04-01 12:32:22 | 89.3 dB | |
| LASmin | 2019-04-01 12:45:57 | 66.4 dB | |
| SEA | -99.9 dB | | |
| LAS > 65.0 dB (Exceedance Counts / Duration) | 1 | 899.9 s | |
| LAS > 85.0 dB (Exceedance Counts / Duration) | 12 | 18.1 s | |
| LZpeak > 135.0 dB (Exceedance Counts / Duration) | 0 | 0.0 s | |
| LZpeak > 137.0 dB (Exceedance Counts / Duration) | 0 | 0.0 s | |
| LZpeak > 140.0 dB (Exceedance Counts / Duration) | 0 | 0.0 s | |

| | | | | |
|------------------------|------------|-------------------------|-------------|-------------------------|
| Community Noise | Ldn | LDay 07:00-22:00 | Lden | LDay 07:00-19:00 |
| | 74.0 | 74.0 | 74.0 | 74.0 |
| LCeq | 80.8 dB | | | |
| LAeq | 74.0 dB | | | |
| LCeq - LAeq | 6.7 dB | | | |
| LAlaq | 81.5 dB | | | |
| LAeq | 74.0 dB | | | |
| LAlaq - LAeq | 7.5 dB | | | |

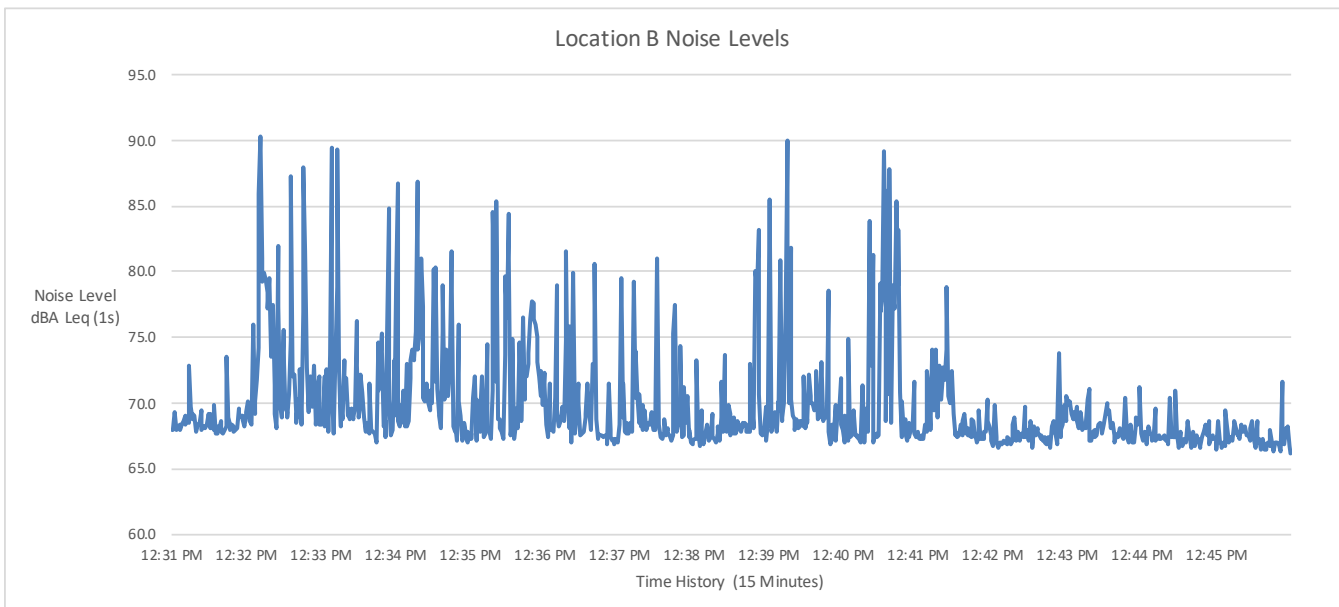
Leq
LS(max)
LF(max)
Ll(max)
LS(min)
LF(min)
Ll(min)
LPeak(max)

| A | |
|-------|---------------------|
| dB | Time Stamp |
| 74.0 | |
| 89.3 | 2019/04/01 12:32:22 |
| 95.1 | 2019/04/01 12:40:43 |
| 98.4 | 2019/04/01 12:40:43 |
| 66.4 | 2019/04/01 12:45:57 |
| 65.7 | 2019/04/01 12:46:11 |
| 66.2 | 2019/04/01 12:45:57 |
| 110.8 | 2019/04/01 12:39:25 |

Overloads 0
Overload Duration 0.0 s

Statistics

LAS5.00 80.1 dB
LAS10.00 76.9 dB
LAS33.30 70.4 dB
LAS50.00 68.9 dB
LAS66.60 68.2 dB
LAS90.00 67.4 dB



Summary

File Name on Meter 831_Data.191
Serial Number 0003748
Model Model 831
Firmware Version 2.311
User Todd Davis
Job Description Main Street Tower
Location C: West side of Broadway between 11th and 12th Street
Noise Sources: Moderate vehicle traffic, light pedestrian traffic, bus routes, active construction site to the North


Measurement

Description
Start 2019-04-01 12:11:48
Stop 2019-04-01 12:26:48
Duration 00:15:00.0
Run Time 00:15:00.0
Pause 00:00:00.0

Pre Calibration 2019-04-01 11:28:08
Post Calibration None
Calibration Deviation ---

Overall Settings

| | | | |
|------------------------------|-------------|----------|----------|
| RMS Weight | A Weighting | | |
| Peak Weight | Z Weighting | | |
| Detector | Slow | | |
| Preamp | PRM831 | | |
| Microphone Correction | Off | | |
| Integration Method | Linear | | |
| Gain | 0.0 dB | | |
| Overload | 143.1 dB | | |
| | A | C | Z |
| Under Range Peak | 75.5 | 72.5 | 77.5 dB |
| Under Range Limit | 26.1 | 26.4 | 31.8 dB |
| Noise Floor | 17.0 | 17.3 | 22.4 dB |

Results

| | | |
|---------------------|----------------------------------|----------|
| LAeq | 69.5 dB | |
| LAE | 99.1 dB | |
| EA | 898.992 $\mu\text{Pa}^2\text{h}$ | |
| LZpeak (max) | 2019-04-01 12:15:11 | 104.7 dB |
| LASmax | 2019-04-01 12:15:12 | 83.5 dB |
| LASmin | 2019-04-01 12:16:34 | 60.9 dB |
| SEA | -99.9 dB | |

| | | |
|--|----|---------|
| LAS > 65.0 dB (Exceedance Counts / Duration) | 12 | 758.5 s |
| LAS > 85.0 dB (Exceedance Counts / Duration) | 0 | 0.0 s |
| LZpeak > 135.0 dB (Exceedance Counts / Duration) | 0 | 0.0 s |
| LZpeak > 137.0 dB (Exceedance Counts / Duration) | 0 | 0.0 s |
| LZpeak > 140.0 dB (Exceedance Counts / Duration) | 0 | 0.0 s |

| | | | | |
|------------------------|------------|-------------------------|-------------|-------------------------|
| Community Noise | Ldn | LDay 07:00-22:00 | Lden | LDay 07:00-19:00 |
| | 69.5 | 69.5 | 69.5 | 69.5 |

| | |
|---------------------|---------|
| LCeq | 79.0 dB |
| LAeq | 69.5 dB |
| LCeq - LAeq | 9.5 dB |
| LAlaq | 71.0 dB |
| LAeq | 69.5 dB |
| LAlaq - LAeq | 1.5 dB |

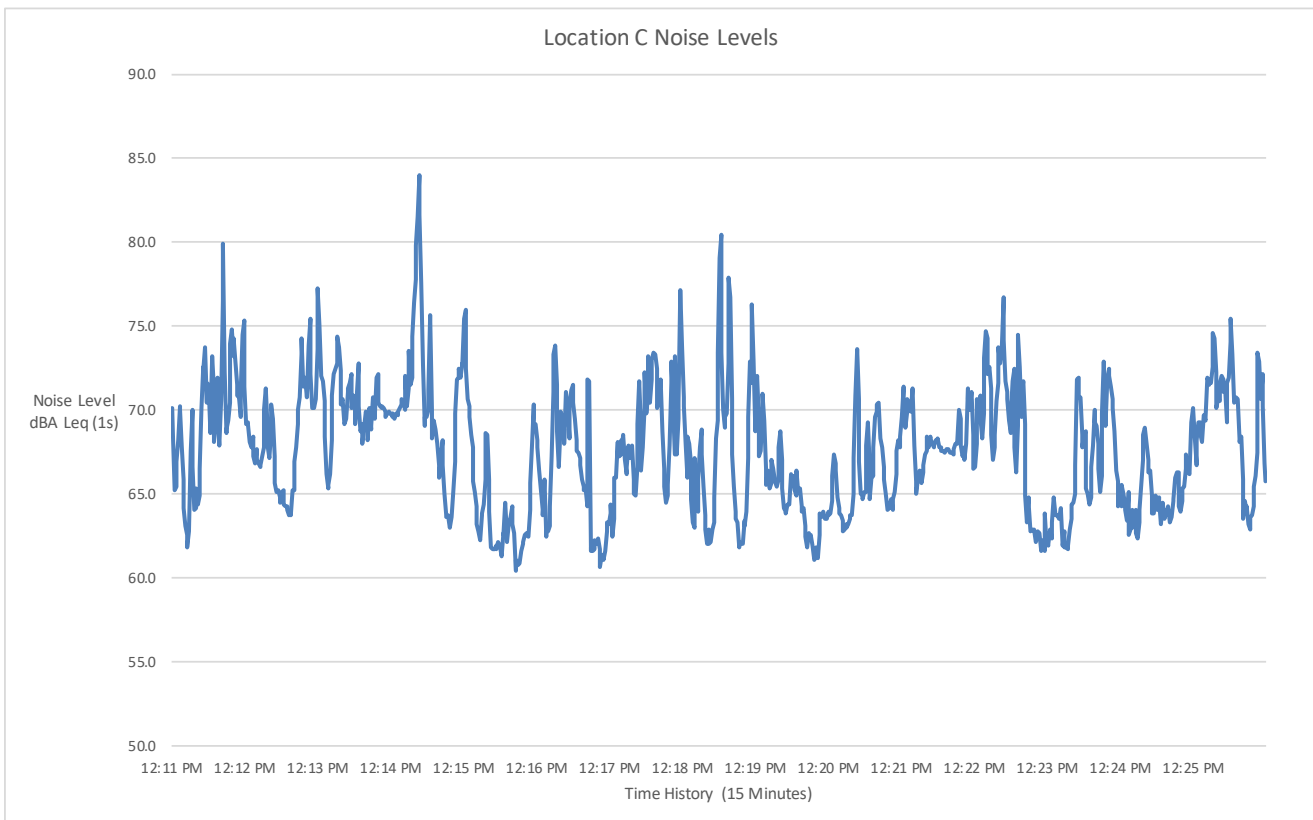
Leq
 LS(max)
 LF(max)
 LI(max)
 LS(min)
 LF(min)
 LI(min)
 LPeak(max)

| A | | |
|---|------|---------------------|
| | dB | Time Stamp |
| | 69.5 | |
| | 83.5 | 2019/04/01 12:15:12 |
| | 85.0 | 2019/04/01 12:15:12 |
| | 85.7 | 2019/04/01 12:15:12 |
| | 60.9 | 2019/04/01 12:16:34 |
| | 60.0 | 2019/04/01 12:16:30 |
| | 60.7 | 2019/04/01 12:17:41 |
| | 96.7 | 2019/04/01 12:15:11 |

Overloads 0
 Overload Duration 0.0 s

Statistics

LAS5.00 73.6 dB
 LAS10.00 72.2 dB
 LAS33.30 69.7 dB
 LAS50.00 67.8 dB
 LAS66.60 65.8 dB
 LAS90.00 63.0 dB



Summary

File Name on Meter 831_Data.189
Serial Number 0003748
Model Model 831
Firmware Version 2.311
User Todd Davis
Job Description Main Street Tower
Location D: South Side of 12th Street Between Broadway and Main Street
Noise Source: Light vehicle and pedestrian traffic


Measurement

Description
Start 2019-04-01 11:32:26
Stop 2019-04-01 11:47:26
Duration 00:15:00.0
Run Time 00:15:00.0
Pause 00:00:00.0

Pre Calibration 2019-04-01 11:28:14
Post Calibration None
Calibration Deviation ---

Overall Settings

| | | | |
|------------------------------|-------------|----------|----------|
| RMS Weight | A Weighting | | |
| Peak Weight | Z Weighting | | |
| Detector | Slow | | |
| Preamp | PRM831 | | |
| Microphone Correction | Off | | |
| Integration Method | Linear | | |
| Gain | 0.0 dB | | |
| Overload | 143.1 dB | | |
| | A | C | Z |
| Under Range Peak | 75.5 | 72.5 | 77.5 dB |
| Under Range Limit | 26.1 | 26.4 | 31.8 dB |
| Noise Floor | 17.0 | 17.3 | 22.4 dB |

Results

| | | | |
|--|----------------------------------|----------|--|
| LAeq | 62.5 dB | | |
| LAE | 92.0 dB | | |
| EA | 176.886 $\mu\text{Pa}^2\text{h}$ | | |
| LZpeak (max) | 2019-04-01 11:42:00 | 101.1 dB | |
| LASmax | 2019-04-01 11:41:27 | 77.8 dB | |
| LASmin | 2019-04-01 11:37:36 | 53.0 dB | |
| SEA | -99.9 dB | | |
| LAS > 65.0 dB (Exceedance Counts / Duration) | 31 | 154.9 s | |
| LAS > 85.0 dB (Exceedance Counts / Duration) | 0 | 0.0 s | |
| LZpeak > 135.0 dB (Exceedance Counts / Duration) | 0 | 0.0 s | |
| LZpeak > 137.0 dB (Exceedance Counts / Duration) | 0 | 0.0 s | |
| LZpeak > 140.0 dB (Exceedance Counts / Duration) | 0 | 0.0 s | |

| | | | | |
|------------------------|------------|-------------------------|-------------|-------------------------|
| Community Noise | Ldn | LDay 07:00-22:00 | Lden | LDay 07:00-19:00 |
| | 62.5 | 62.5 | 62.5 | 62.5 |
| LCeq | 73.8 dB | | | |
| LAeq | 62.5 dB | | | |
| LCeq - LAeq | 11.3 dB | | | |
| LAleq | 67.3 dB | | | |
| LAeq | 62.5 dB | | | |
| LAleq - LAeq | 4.8 dB | | | |

Leq
 Ls(max)
 Lf(max)
 Li(max)
 Ls(min)
 Lf(min)
 Li(min)
 LPeak(max)

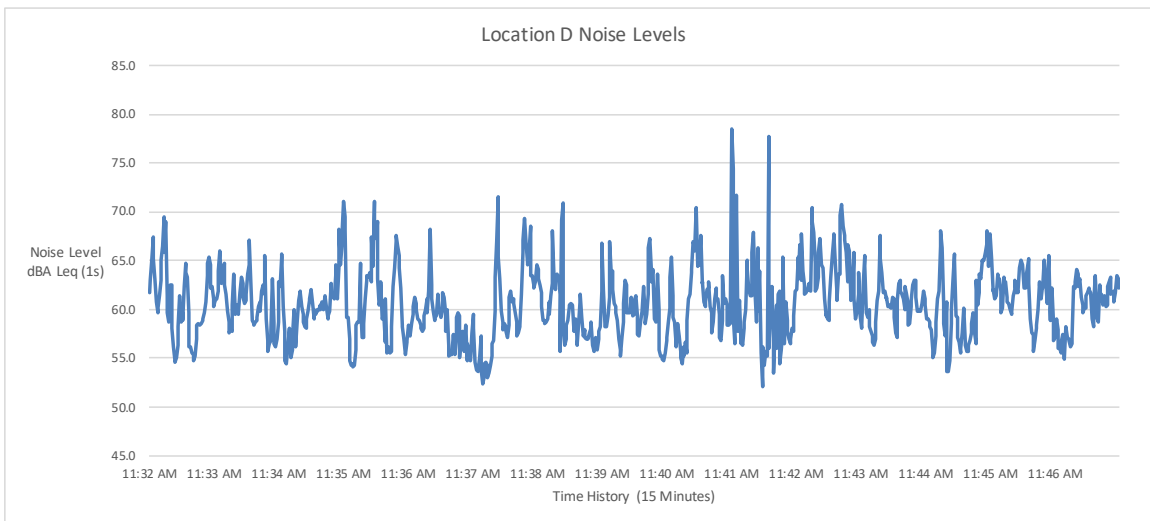
| A | |
|------|---------------------|
| dB | Time Stamp |
| 62.5 | |
| 77.8 | 2019/04/01 11:41:27 |
| 85.3 | 2019/04/01 11:42:00 |
| 89.5 | 2019/04/01 11:42:00 |
| 53.0 | 2019/04/01 11:37:36 |
| 51.2 | 2019/04/01 11:41:54 |
| 52.8 | 2019/04/01 11:37:41 |
| 99.9 | 2019/04/01 11:42:00 |

Overloads
 Overload Duration

0
 0.0 s

Statistics

| | |
|----------|---------|
| LAS5.00 | 66.9 dB |
| LAS10.00 | 65.3 dB |
| LAS33.30 | 62.0 dB |
| LAS50.00 | 60.7 dB |
| LAS66.60 | 59.3 dB |
| LAS90.00 | 56.6 dB |



Construction Noise Calculation Worksheets

Report date: 6/7/19
 Project: Main Street Tower
 Phase: Demolition

Receptor #1

| | | Baselines (dBA) | | | | | | | |
|---------------------|-------------|-----------------|------------|------------|-----------------|-----------------|------------------------------|-------------|--|
| Description | Land Use | Daytime | Evening | Night | | | | | |
| 1201 S. Main Street | Residential | 62.5 | 40 | 40 | | | | | |
| | | Equipment | | | | | | | |
| | | Impact | Spec | Actual | Receptor | Estimated | Calculated (dBA) | | |
| Description | Device | Usage(%) | Lmax (dBA) | Lmax (dBA) | Distance (feet) | Shielding (dBA) | *Lmax | Leq | |
| Concrete Saw | No | 20 | 90 | 90 | 60 | 0 | 88.4 | 81.4 | |
| Grader | No | 40 | 85 | | 60 | 0 | 83.4 | 79.4 | |
| Dozer | No | 40 | 85 | 82 | 60 | 0 | 80.4 | 76.4 | |
| Backhoe | No | 40 | 80 | 78 | 60 | 0 | 76.4 | 72.4 | |
| | | | | | | | Results | 84.6 | |
| | | | | | | | Ambient | 62.5 | |
| | | | | | | | Construction +Ambient | 84.6 | |

Receptor #2

| | | Baselines (dBA) | | | | | | | |
|------------------|-------------|-----------------|------------|------------|-----------------|-----------------|------------------------------|-------------|--|
| Description | Land Use | Daytime | Evening | Night | | | | | |
| 1100 S. Broadway | Residential | 74.0 | 40 | 40 | | | | | |
| | | Equipment | | | | | | | |
| | | Impact | Spec | Actual | Receptor | Estimated | Calculated (dBA) | | |
| Description | Device | Usage(%) | Lmax (dBA) | Lmax (dBA) | Distance (feet) | Shielding (dBA) | *Lmax | Leq | |
| Concrete Saw | No | 20 | 90 | 90 | 100 | 0 | 84.0 | 77.0 | |
| Grader | No | 40 | 85 | | 100 | 0 | 79.0 | 75.0 | |
| Dozer | No | 40 | 85 | 82 | 100 | 0 | 76.0 | 72.0 | |
| Backhoe | No | 40 | 80 | 78 | 100 | 0 | 72.0 | 68.0 | |
| | | | | | | | Results | 80.2 | |
| | | | | | | | Ambient | 74.0 | |
| | | | | | | | Construction +Ambient | 81.1 | |

Construction Noise Calculation Worksheets

Receptor #3

| Description | Land Use | Baselines (dBA) | | |
|------------------|-------------|-----------------|---------|-------|
| | | Daytime | Evening | Night |
| 1111 S. Broadway | Residential | 69.5 | 40 | 40 |

| Description | Impact Device | Usage(%) | Equipment | | Receptor Distance (feet) | Estimated Shielding (dBA) | Calculated (dBA) | |
|------------------------------|---------------|----------|-----------------|-------------------|--------------------------|---------------------------|------------------|------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | | | *Lmax | Leq |
| | | | Concrete Saw | No | | | 20 | 90 |
| Grader | No | 40 | 85 | | 210 | 0 | 72.5 | 68.6 |
| Dozer | No | 40 | 85 | 82 | 210 | 0 | 69.5 | 65.6 |
| Backhoe | No | 40 | 80 | 78 | 210 | 0 | 65.5 | 61.6 |
| Results | | | | | | | 73.7 | |
| Ambient | | | | | | | 69.5 | |
| Construction +Ambient | | | | | | | 75.1 | |

Receptor #4

| Description | Land Use | Baselines (dBA) | | |
|---------------------|-------------|-----------------|---------|-------|
| | | Daytime | Evening | Night |
| 1100 S. Hill Street | Residential | 69.5 | 40 | 40 |

| Description | Impact Device | Usage(%) | Equipment | | Receptor Distance (feet) | Estimated Shielding (dBA) | Calculated (dBA) | |
|------------------------------|---------------|----------|-----------------|-------------------|--------------------------|---------------------------|------------------|------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | | | *Lmax | Leq |
| | | | Concrete Saw | No | | | 20 | 90 |
| Grader | No | 40 | 85 | | 340 | 5 | 63.3 | 59.4 |
| Dozer | No | 40 | 85 | 82 | 340 | 5 | 60.3 | 56.4 |
| Backhoe | No | 40 | 80 | 78 | 340 | 5 | 56.3 | 52.4 |
| Results | | | | | | | 64.5 | |
| Ambient | | | | | | | 69.5 | |
| Construction +Ambient | | | | | | | 70.7 | |

*Calculated Lmax is the Loudest value.

Source: Roadway Construction Noise Model (RCNM),Version 1.1

Demolition Phase Impact Summary

| Receptor # | Address | Land Use | Ambient Noise (dBA Leq) | Receptor Distance (feet) | Noise Impact (dBA Leq) | Construction Significance Criteria (dBA Leq)** | Noise Impact Above Threshold |
|------------|---------------------|-------------|-------------------------|--------------------------|------------------------|--|------------------------------|
| 1 | 1201 S. Main Street | Residential | 62.5 | 60 | 84.6 | 67.5 | 17.1 |
| 2 | 1100 S. Broadway | Residential | 74.00 | 100 | 81.1 | 79.0 | 2.1 |
| 3 | 1111 S. Broadway | Residential | 69.5 | 210 | 75.1 | 74.5 | 0.6 |
| 4 | 1100 S. Hill Street | Residential | 69.5 | 340 | 70.7 | 74.5 | 0.0 |

** Significance criteria is based on the ambient Noise levels plus 5 dBA, pursuant to the L.A. CEQA Thresholds Guide (2006) for construction activities occurring for more than 10 days over a 3-month period.

Construction Noise Calculation Worksheets

Report date: 6/7/19
 Project: Main Street Tower
 Phase: Grading

Receptor #1

| | | Baselines (dBA) | | | | | | | |
|------------------------------|-------------|-----------------|------------|------------|-----------------|-----------------|------------------|------|--|
| Description | Land Use | Daytime | Evening | Night | | | | | |
| 1201 S. Main Street | Residential | 62.5 | 40 | 40 | | | | | |
| | | Equipment | | | | | | | |
| | | Impact | Spec | Actual | Receptor | Estimated | Calculated (dBA) | | |
| Description | Device | Usage(%) | Lmax (dBA) | Lmax (dBA) | Distance (feet) | Shielding (dBA) | *Lmax | Leq | |
| Bore/Drill | No | 20 | 84 | 79 | 60 | 0 | 77.4 | 70.4 | |
| Excavator | No | 40 | 85 | 81 | 60 | 0 | 79.4 | 75.4 | |
| Grader | No | 40 | 85 | | 60 | 0 | 83.4 | 79.4 | |
| Dozer | No | 40 | 85 | 82 | 60 | 0 | 80.4 | 76.4 | |
| Results | | | | | | | 82.5 | | |
| Ambient | | | | | | | 62.5 | | |
| Construction +Ambient | | | | | | | 82.5 | | |

Receptor #2

| | | Baselines (dBA) | | | | | | | |
|------------------------------|-------------|-----------------|------------|------------|-----------------|-----------------|------------------|------|--|
| Description | Land Use | Daytime | Evening | Night | | | | | |
| 1100 S. Broadway | Residential | 74.0 | 40 | 40 | | | | | |
| | | Equipment | | | | | | | |
| | | Impact | Spec | Actual | Receptor | Estimated | Calculated (dBA) | | |
| Description | Device | Usage(%) | Lmax (dBA) | Lmax (dBA) | Distance (feet) | Shielding (dBA) | *Lmax | Leq | |
| Bore/Drill | No | 20 | 84 | 79 | 100 | 0 | 73.0 | 66.0 | |
| Excavator | No | 40 | 85 | 81 | 100 | 0 | 75.0 | 71.0 | |
| Grader | No | 40 | 85 | | 100 | 0 | 79.0 | 75.0 | |
| Dozer | No | 40 | 85 | 82 | 100 | 0 | 76.0 | 72.0 | |
| Results | | | | | | | 78.1 | | |
| Ambient | | | | | | | 74.0 | | |
| Construction +Ambient | | | | | | | 79.5 | | |

Construction Noise Calculation Worksheets

Receptor #3

| Description | Land Use | Baselines (dBA) | | |
|------------------|-------------|-----------------|---------|-------|
| | | Daytime | Evening | Night |
| 1111 S. Broadway | Residential | 69.5 | 40 | 40 |

| Description | Impact Device | Usage(%) | Equipment | | Receptor Distance (feet) | Estimated Shielding (dBA) | Calculated (dBA) | |
|-------------|---------------|----------|-----------------|-------------------|--------------------------|---------------------------|------------------|------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | | | *Lmax | Leq |
| | | | Bore/Drill | No | | | 20 | 84 |
| Excavator | No | 40 | 85 | 81 | 210 | 0 | 68.5 | 64.6 |
| Grader | No | 40 | 85 | | 210 | 0 | 72.5 | 68.6 |
| Dozer | No | 40 | 85 | 82 | 210 | 0 | 69.5 | 65.6 |

| | |
|------------------------------|-------------|
| Results | 71.6 |
| Ambient | 69.5 |
| Construction +Ambient | 73.7 |

Receptor #4

| Description | Land Use | Baselines (dBA) | | |
|---------------------|-------------|-----------------|---------|-------|
| | | Daytime | Evening | Night |
| 1100 S. Hill Street | Residential | 69.5 | 40 | 40 |

| Description | Impact Device | Usage(%) | Equipment | | Receptor Distance (feet) | Estimated Shielding (dBA) | Calculated (dBA) | |
|-------------|---------------|----------|-----------------|-------------------|--------------------------|---------------------------|------------------|------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | | | *Lmax | Leq |
| | | | Bore/Drill | No | | | 20 | 84 |
| Excavator | No | 40 | 85 | 81 | 340 | 5 | 59.3 | 55.4 |
| Grader | No | 40 | 85 | | 340 | 5 | 63.3 | 59.4 |
| Dozer | No | 40 | 85 | 82 | 340 | 5 | 60.3 | 56.4 |

| | |
|------------------------------|-------------|
| Results | 62.4 |
| Ambient | 69.5 |
| Construction +Ambient | 70.3 |

*Calculated Lmax is the Loudest value.

Source: Roadway Construction Noise Model (RCNM), Version 1.1

Grading Phase Impact Summary

| Receptor # | Address | Land Use | Ambient Noise (dBA Leq) | Receptor Distance (feet) | Noise Impact (dBA Leq) | Construction Significance Criteria (dBA Leq)** | Noise Impact Above Threshold |
|------------|---------------------|-------------|-------------------------|--------------------------|------------------------|--|------------------------------|
| 1 | 1201 S. Main Street | Residential | 62.5 | 60 | 82.5 | 67.5 | 15.0 |
| 2 | 1100 S. Broadway | Residential | 74.0 | 100 | 79.5 | 79.0 | 0.5 |
| 3 | 1111 S. Broadway | Residential | 69.5 | 210 | 73.7 | 74.5 | 0.0 |
| 4 | 1100 S. Hill Street | Residential | 69.5 | 340 | 70.3 | 74.5 | 0.0 |

** Significance criteria is based on the ambient Noise levels plus 5 dBA, pursuant to the L.A. CEQA Thresholds Guide (2006) for construction activities occurring for more than 10 days over a 3-month period.



Construction Noise Calculation Worksheets

Report date: 6/7/19
 Project: Main Street Tower
 Phase: Architectural Coating

Receptor #1

| Description | Land Use | Baselines (dBA) | | |
|---------------------|-------------|-----------------|---------|-------|
| | | Daytime | Evening | Night |
| 1201 S. Main Street | Residential | 62.5 | 40 | 40 |

| Description | Impact Device | Usage(%) | Equipment | | Receptor Distance (feet) | Estimated Shielding (dBA) | Calculated (dBA) | |
|----------------|---------------|----------|-----------------|-------------------|--------------------------|---------------------------|------------------|------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | | | *Lmax | Leq |
| | | | Air Compressor | No | | | 40 | 80 |
| Air Compressor | No | 20 | 80 | 78 | 60 | 0 | 76.4 | 69.4 |
| Air Compressor | No | 40 | 80 | 78 | 60 | 0 | 76.4 | 72.4 |
| Air Compressor | No | 40 | 80 | 78 | 60 | 0 | 76.4 | 72.4 |
| Air Compressor | No | 40 | 80 | 78 | 60 | 0 | 76.4 | 72.4 |
| Aerial Lift | No | 20 | 85 | 75 | 60 | 0 | 73.4 | 66.4 |
| Forklift | No | 20 | 85 | 75 | 60 | 0 | 73.4 | 66.4 |

| | |
|------------------------------|-------------|
| Results | 79.4 |
| Ambient | 62.5 |
| Construction +Ambient | 79.5 |

Receptor #2

| Description | Land Use | Baselines (dBA) | | |
|------------------|-------------|-----------------|---------|-------|
| | | Daytime | Evening | Night |
| 1100 S. Broadway | Residential | 74.0 | 40 | 40 |

| Description | Impact Device | Usage(%) | Equipment | | Receptor Distance (feet) | Estimated Shielding (dBA) | Calculated (dBA) | |
|----------------|---------------|----------|-----------------|-------------------|--------------------------|---------------------------|------------------|------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | | | *Lmax | Leq |
| | | | Air Compressor | No | | | 40 | 80 |
| Air Compressor | No | 20 | 80 | 78 | 100 | 0 | 72.0 | 65.0 |
| Air Compressor | No | 40 | 80 | 78 | 100 | 0 | 72.0 | 68.0 |
| Air Compressor | No | 40 | 80 | 78 | 100 | 0 | 72.0 | 68.0 |
| Air Compressor | No | 40 | 80 | 78 | 100 | 0 | 72.0 | 68.0 |
| Aerial Lift | No | 20 | 85 | 75 | 100 | 0 | 69.0 | 62.0 |
| Forklift | No | 20 | 85 | 75 | 100 | 0 | 69.0 | 62.0 |

| | |
|------------------------------|-------------|
| Results | 75.0 |
| Ambient | 74.0 |
| Construction +Ambient | 77.5 |

Construction Noise Calculation Worksheets

Receptor #3

| Description | Land Use | Baselines (dBA) | | |
|------------------|-------------|-----------------|---------|-------|
| | | Daytime | Evening | Night |
| 1111 S. Broadway | Residential | 69.5 | 40 | 40 |

| Description | Impact Device | Usage(%) | Equipment | | Receptor Distance (feet) | Estimated Shielding (dBA) | Calculated (dBA) | |
|----------------|---------------|----------|-----------------|-------------------|--------------------------|---------------------------|------------------|------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | | | *Lmax | Leq |
| | | | Air Compressor | No | | | 40 | 80 |
| Air Compressor | No | 20 | 80 | 78 | 210 | 0 | 65.5 | 58.5 |
| Air Compressor | No | 40 | 80 | 78 | 210 | 0 | 65.5 | 61.6 |
| Air Compressor | No | 40 | 80 | 78 | 210 | 0 | 65.5 | 61.6 |
| Air Compressor | No | 40 | 80 | 78 | 210 | 0 | 65.5 | 61.6 |
| Aerial Lift | No | 20 | 85 | 75 | 210 | 0 | 62.5 | 55.5 |
| Forklift | No | 20 | 85 | 75 | 210 | 0 | 62.5 | 55.5 |

| | |
|------------------------------|-------------|
| Results | 68.5 |
| Ambient | 0.0 |
| Construction +Ambient | 68.5 |

Receptor #4

| Description | Land Use | Baselines (dBA) | | |
|---------------------|-------------|-----------------|---------|-------|
| | | Daytime | Evening | Night |
| 1100 S. Hill Street | Residential | 69.5 | 40 | 40 |

| Description | Impact Device | Usage(%) | Equipment | | Receptor Distance (feet) | Estimated Shielding (dBA) | Calculated (dBA) | |
|----------------|---------------|----------|-----------------|-------------------|--------------------------|---------------------------|------------------|------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | | | *Lmax | Leq |
| | | | Air Compressor | No | | | 40 | 80 |
| Air Compressor | No | 20 | 80 | 78 | 340 | 5 | 56.3 | 49.4 |
| Air Compressor | No | 40 | 80 | 78 | 340 | 5 | 56.3 | 52.4 |
| Air Compressor | No | 40 | 80 | 78 | 340 | 5 | 56.3 | 52.4 |
| Air Compressor | No | 40 | 80 | 78 | 340 | 5 | 56.3 | 52.4 |
| Aerial Lift | No | 20 | 85 | 75 | 340 | 5 | 53.3 | 46.4 |
| Forklift | No | 20 | 85 | 75 | 340 | 5 | 53.3 | 46.4 |

| | |
|------------------------------|-------------|
| Results | 59.4 |
| Ambient | 0.0 |
| Construction +Ambient | 59.4 |

*Calculated Lmax is the Loudest value.

Source: Roadway Construction Noise Model (RCNM),Version 1.1

Construction Noise Calculation Worksheets

Architectural Coating Phase Impact Summary

| <u>Receptor #</u> | <u>Address</u> | <u>Land Use</u> | <u>Ambient Noise (dBA Leq)</u> | <u>Receptor Distance (feet)</u> | <u>Noise Impact (dBA Leq)</u> | <u>Constructor Significance Criteria (dBA Leq)**</u> | <u>Noise Impact Above Threshold</u> |
|-------------------|---------------------|-----------------|--------------------------------|---------------------------------|-------------------------------|--|-------------------------------------|
| 1 | 1201 S. Main Street | Residential | 62.5 | 60 | 79.5 | 67.5 | 12.0 |
| 3 | 1100 S. Broadway | Residential | 74.0 | 100 | 77.5 | 79.0 | 0.0 |
| 4 | 1111 S. Broadway | Residential | 69.5 | 210 | 68.5 | 74.5 | 0.0 |
| 5 | 1100 S. Hill Street | Residential | 69.5 | 340 | 59.4 | 74.5 | 0.0 |

** Significance criteria is based on the ambient Noise levels plus 5 dBA, pursuant to the L.A. CEQA Thresholds Guide (2006) for construction activities occurring for more than 10 days over a 3-month period.

Construction Noise Calculation Worksheets

Report date: 6/7/19
 Project: Main Street Tower
 Phase: Paving

Receptor #1

| | | Baselines (dBA) | | | | | | | |
|------------------------------|-------------|-----------------|------------|------------|-----------------|-----------------|------------------|------|--|
| Description | Land Use | Daytime | Evening | Night | | | | | |
| 1201 S. Main Street | Residential | 62.5 | 40 | 40 | | | | | |
| | | Equipment | | | | | | | |
| | | Impact | Spec | Actual | Receptor | Estimated | Calculated (dBA) | | |
| Description | Device | Usage(%) | Lmax (dBA) | Lmax (dBA) | Distance (feet) | Shielding (dBA) | *Lmax | Leq | |
| Cement and Mortar Mixer | No | 40 | 85 | 79 | 60 | 0 | 77.4 | 73.4 | |
| Pavers | No | 50 | 85 | 77 | 60 | 0 | 75.4 | 72.4 | |
| Paving Equipment | No | 20 | 85 | 90 | 60 | 0 | 88.4 | 81.4 | |
| Rollers | No | 20 | 85 | 80 | 60 | 0 | 78.4 | 71.4 | |
| Results | | | | | | | 82.8 | | |
| Ambient | | | | | | | 62.5 | | |
| Construction +Ambient | | | | | | | 82.9 | | |

Receptor #2

| | | Baselines (dBA) | | | | | | | |
|------------------------------|-------------|-----------------|------------|------------|-----------------|-----------------|------------------|------|--|
| Description | Land Use | Daytime | Evening | Night | | | | | |
| 1100 S. Broadway | Residential | 74.0 | 40 | 40 | | | | | |
| | | Equipment | | | | | | | |
| | | Impact | Spec | Actual | Receptor | Estimated | Calculated (dBA) | | |
| Description | Device | Usage(%) | Lmax (dBA) | Lmax (dBA) | Distance (feet) | Shielding (dBA) | *Lmax | Leq | |
| Cement and Mortar Mixer | No | 40 | 85 | 79 | 100 | 0 | 73.0 | 69.0 | |
| Pavers | No | 50 | 85 | 77 | 100 | 0 | 71.0 | 68.0 | |
| Paving Equipment | No | 20 | 85 | 90 | 100 | 0 | 84.0 | 77.0 | |
| Rollers | No | 20 | 85 | 80 | 100 | 0 | 74.0 | 67.0 | |
| Results | | | | | | | 78.4 | | |
| Ambient | | | | | | | 74.0 | | |
| Construction +Ambient | | | | | | | 79.7 | | |

Receptor #3

| | | Baselines (dBA) | | | | | | | |
|------------------------------|-------------|-----------------|------------|------------|-----------------|-----------------|------------------|------|--|
| Description | Land Use | Daytime | Evening | Night | | | | | |
| 1111 S. Broadway | Residential | 69.5 | 40 | 40 | | | | | |
| | | Equipment | | | | | | | |
| | | Impact | Spec | Actual | Receptor | Estimated | Calculated (dBA) | | |
| Description | Device | Usage(%) | Lmax (dBA) | Lmax (dBA) | Distance (feet) | Shielding (dBA) | *Lmax | Leq | |
| Cement and Mortar Mixer | No | 40 | 85 | 79 | 210 | 0 | 66.5 | 62.6 | |
| Pavers | No | 50 | 85 | 77 | 210 | 0 | 64.5 | 61.5 | |
| Paving Equipment | No | 20 | 85 | 90 | 210 | 0 | 77.5 | 70.5 | |
| Rollers | No | 20 | 85 | 80 | 210 | 0 | 67.5 | 60.5 | |
| Results | | | | | | | 72.0 | | |
| Ambient | | | | | | | 69.5 | | |
| Construction +Ambient | | | | | | | 73.9 | | |

Construction Noise Calculation Worksheets

Receptor #4

| Description | Land Use | Baselines (dBA) | | |
|---------------------|-------------|-----------------|---------|-------|
| | | Daytime | Evening | Night |
| 1100 S. Hill Street | Residential | 69.5 | 40 | 40 |

| Description | Impact Device | Usage(%) | Equipment | | Receptor Distance (feet) | Estimated Shielding (dBA) | Calculated (dBA) | |
|-------------------------|---------------|----------|-----------------|-------------------|--------------------------|---------------------------|------------------|------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | | | *Lmax | Leq |
| Cement and Mortar Mixer | No | 40 | 85 | 79 | 340 | 5 | 57.3 | 53.4 |
| Pavers | No | 50 | 85 | 77 | 340 | 5 | 55.3 | 52.3 |
| Paving Equipment | No | 20 | 85 | 90 | 340 | 5 | 68.3 | 61.4 |
| Rollers | No | 20 | 85 | 80 | 340 | 5 | 58.3 | 51.4 |

| | |
|------------------------------|-------------|
| Results | 62.8 |
| Ambient | 69.5 |
| Construction +Ambient | 70.3 |

*Calculated Lmax is the Loudest value.

Source: Roadway Construction Noise Model (RCNM), Version 1.1

Paving Phase Impact Summary

| Receptor # | Address | Land Use | Ambient Receptor | | Construction Noise | | Noise Impact Above Threshold |
|------------|---------------------|-------------|------------------|-----------------|------------------------|-----------------------------------|------------------------------|
| | | | Noise (dBA Leq) | Distance (feet) | Noise Impact (dBA Leq) | Significance Criteria (dBA Leq)** | |
| 1 | 1201 S. Main Street | Residential | 62.5 | 80 | 82.9 | 67.5 | 15.4 |
| 3 | 1100 S. Broadway | Residential | 74.0 | 100 | 79.7 | 79.0 | 0.7 |
| 4 | 1111 S. Broadway | Residential | 69.5 | 210 | 73.9 | 74.5 | 0.0 |
| 5 | 1100 S. Hill Street | Residential | 69.5 | 340 | 70.3 | 74.5 | 0.0 |

** Significance criteria is based on the ambient Noise levels plus 5 dBA, pursuant to the L.A. CEQA Thresholds Guide (2006) for construction activities occurring for more than 10 days over a 3-month period.

Construction Noise Calculation Worksheets

Report date: 6/7/19
 Project: Main Street Tower
 Phase: Architectural Coating

Receptor #1

| Description | Land Use | Baselines (dBA) | | |
|---------------------|-------------|-----------------|---------|-------|
| | | Daytime | Evening | Night |
| 1201 S. Main Street | Residential | 62.5 | 40 | 40 |

| Description | Impact Device | Usage(%) | Equipment | | Receptor Distance (feet) | Estimated Shielding (dBA) | Calculated (dBA) | |
|----------------|---------------|----------|-----------------|-------------------|--------------------------|---------------------------|------------------|------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | | | *Lmax | Leq |
| | | | Air Compressor | No | | | 40 | 80 |
| Air Compressor | No | 20 | 80 | 78 | 60 | 0 | 76.4 | 69.4 |
| Air Compressor | No | 40 | 80 | 78 | 60 | 0 | 76.4 | 72.4 |
| Air Compressor | No | 40 | 80 | 78 | 60 | 0 | 76.4 | 72.4 |
| Air Compressor | No | 40 | 80 | 78 | 60 | 0 | 76.4 | 72.4 |
| Aerial Lift | No | 20 | 85 | 75 | 60 | 0 | 73.4 | 66.4 |
| Forklift | No | 20 | 85 | 75 | 60 | 0 | 73.4 | 66.4 |

| | |
|------------------------------|-------------|
| Results | 79.4 |
| Ambient | 62.5 |
| Construction +Ambient | 79.5 |

Receptor #2

| Description | Land Use | Baselines (dBA) | | |
|------------------|-------------|-----------------|---------|-------|
| | | Daytime | Evening | Night |
| 1100 S. Broadway | Residential | 74.0 | 40 | 40 |

| Description | Impact Device | Usage(%) | Equipment | | Receptor Distance (feet) | Estimated Shielding (dBA) | Calculated (dBA) | |
|----------------|---------------|----------|-----------------|-------------------|--------------------------|---------------------------|------------------|------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | | | *Lmax | Leq |
| | | | Air Compressor | No | | | 40 | 80 |
| Air Compressor | No | 20 | 80 | 78 | 100 | 0 | 72.0 | 65.0 |
| Air Compressor | No | 40 | 80 | 78 | 100 | 0 | 72.0 | 68.0 |
| Air Compressor | No | 40 | 80 | 78 | 100 | 0 | 72.0 | 68.0 |
| Air Compressor | No | 40 | 80 | 78 | 100 | 0 | 72.0 | 68.0 |
| Aerial Lift | No | 20 | 85 | 75 | 100 | 0 | 69.0 | 62.0 |
| Forklift | No | 20 | 85 | 75 | 100 | 0 | 69.0 | 62.0 |

| | |
|------------------------------|-------------|
| Results | 75.0 |
| Ambient | 74.0 |
| Construction +Ambient | 77.5 |

Construction Noise Calculation Worksheets

Receptor #3

| Description | Land Use | Baselines (dBA) | | |
|------------------|-------------|-----------------|---------|-------|
| | | Daytime | Evening | Night |
| 1111 S. Broadway | Residential | 69.5 | 40 | 40 |

| Description | Impact Device | Usage(%) | Equipment | | Receptor Distance (feet) | Estimated Shielding (dBA) | Calculated (dBA) | |
|----------------|---------------|----------|-----------------|-------------------|--------------------------|---------------------------|------------------|------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | | | *Lmax | Leq |
| | | | Air Compressor | No | | | 40 | 80 |
| Air Compressor | No | 20 | 80 | 78 | 210 | 0 | 65.5 | 58.5 |
| Air Compressor | No | 40 | 80 | 78 | 210 | 0 | 65.5 | 61.6 |
| Air Compressor | No | 40 | 80 | 78 | 210 | 0 | 65.5 | 61.6 |
| Air Compressor | No | 40 | 80 | 78 | 210 | 0 | 65.5 | 61.6 |
| Aerial Lift | No | 20 | 85 | 75 | 210 | 0 | 62.5 | 55.5 |
| Forklift | No | 20 | 85 | 75 | 210 | 0 | 62.5 | 55.5 |

| | |
|------------------------------|-------------|
| Results | 68.5 |
| Ambient | 69.5 |
| Construction +Ambient | 72.1 |

Receptor #4

| Description | Land Use | Baselines (dBA) | | |
|---------------------|-------------|-----------------|---------|-------|
| | | Daytime | Evening | Night |
| 1100 S. Hill Street | Residential | 69.5 | 40 | 40 |

| Description | Impact Device | Usage(%) | Equipment | | Receptor Distance (feet) | Estimated Shielding (dBA) | Calculated (dBA) | |
|----------------|---------------|----------|-----------------|-------------------|--------------------------|---------------------------|------------------|------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | | | *Lmax | Leq |
| | | | Air Compressor | No | | | 40 | 80 |
| Air Compressor | No | 20 | 80 | 78 | 340 | 5 | 56.3 | 49.4 |
| Air Compressor | No | 40 | 80 | 78 | 340 | 5 | 56.3 | 52.4 |
| Air Compressor | No | 40 | 80 | 78 | 340 | 5 | 56.3 | 52.4 |
| Air Compressor | No | 40 | 80 | 78 | 340 | 5 | 56.3 | 52.4 |
| Aerial Lift | No | 20 | 85 | 75 | 340 | 5 | 53.3 | 46.4 |
| Forklift | No | 20 | 85 | 75 | 340 | 5 | 53.3 | 46.4 |

| | |
|------------------------------|-------------|
| Results | 59.4 |
| Ambient | 69.5 |
| Construction +Ambient | 69.9 |

*Calculated Lmax is the Loudest value.

Source: Roadway Construction Noise Model (RCNM),Version 1.1

Construction Noise Calculation Worksheets

Architectural Coating Phase Impact Summary

| <u>Receptor #</u> | <u>Address</u> | <u>Land Use</u> | <u>Ambient Noise (dBA Leq)</u> | <u>Receptor Distance (feet)</u> | <u>Noise Impact (dBA Leq)</u> | <u>Constructor Significance Criteria (dBA Leq)**</u> | <u>Noise Impact Above Threshold</u> |
|-------------------|---------------------|-----------------|--------------------------------|---------------------------------|-------------------------------|--|-------------------------------------|
| 1 | 1201 S. Main Street | Residential | 62.5 | 60 | 79.5 | 67.5 | 12.0 |
| 3 | 1100 S. Broadway | Residential | 74.0 | 100 | 77.5 | 79.0 | 0.0 |
| 4 | 1111 S. Broadway | Residential | 69.5 | 210 | 72.1 | 74.5 | 0.0 |
| 5 | 1100 S. Hill Street | Residential | 69.5 | 340 | 69.9 | 74.5 | 0.0 |

** Significance criteria is based on the ambient Noise levels plus 5 dBA, pursuant to the L.A. CEQA Thresholds Guide (2006) for construction activities occurring for more than 10 days over a 3-month period.

Construction Noise Calculation Worksheets

Construction Noise Impact Summary - All Phases

| # | Address | Land Use | Ambient Noise (dBA Leq) | Receptor Distance (feet) | Noise Level Impact (dBA Leq) by Phase | | | | | Construction Significance Criteria (dBA Leq)** | Noise Impact Above Threshold | MAX ANY PHASE |
|---|---------------------|-------------|----------------------------|--------------------------------|---------------------------------------|---------|----------|---------|--------|---|---------------------------------------|------------------|
| | | | | | Demo | Grading | Building | Coating | Paving | | | |
| 1 | 1201 S. Main Street | Residential | 62.50 | 60 | 84.6 | 82.5 | 83.4 | 79.5 | 82.9 | 67.5 | 17.1 | 84.6 |
| 3 | 1100 S. Broadway | Residential | 74.00 | 100 | 81.1 | 79.5 | 80.2 | 77.5 | 79.7 | 79.0 | 2.1 | 81.1 |
| 4 | 1111 S. Broadway | Residential | 69.50 | 210 | 73.7 | 71.6 | 74.3 | 68.5 | 72.0 | 74.5 | 0.0 | 74.3 |
| 5 | 1100 S. Hill Street | Residential | 69.50 | 340 | 64.5 | 62.4 | 70.4 | 59.4 | 62.8 | 74.5 | 0.0 | 70.4 |

** Significance criteria is based on the ambient Noise levels plus 5 dBA, pursuant to the L.A. CEQA Thresholds Guide (2006) for construction activities occurring for more than 10 days over a 3-month period.



Project: Main Street Tower
 Date: September 20, 2021

Estimated Crowd Noise Levels

| Outdoor Noise Sources | Area | Est. Occupancy | |
|--|--------|----------------|----------------|
| : 5th Floor Residential Podium Terrace (North) (sf)= | 13,499 | 270 | (@50sf/person) |
| : 5th Floor Residential Podium Terrace (South) (sf)= | 13,661 | 273 | (@50sf/person) |
| N3: 30th Floor Residential Podium Terrace(sf)= | 2,541 | 51 | (@50sf/person) |

| | 50% Male | 50% Female | 50% of people | Total people |
|-----------------------|----------|------------|---------------|--------------|
| N1: 5th Floor (North) | 67 | 67 | 135 | 270 |
| N1: 5th Floor (South) | 68 | 68 | 137 | 273 |
| N3: 30th Floor | 13 | 13 | 25 | 51 |

| | Male Speaking @ 3ft (dBA Leq) | Female Speaking @ 3ft (dBA Leq) |
|--|-------------------------------|---------------------------------|
| Reference SPL (crowd) | 65 | 62 |
| SPL(N1) =10log10 (10^SPL(N1male)/10 + 10^SPL(N1female)/10) | | |

| Composite Reference Noise Levels | | | |
|----------------------------------|-------------|---------------|-------------------|
| | Male Voices | Female Voices | Total Crowd Noise |
| N1: 5th Floor (North) | 83 | 80.29 | 85.06 |
| N2: 5th Floor (South) | 83 | 80.34 | 85.11 |
| N3: 30th Floor | 76 | 73.04 | 77.80 |

| ID | Distance (feet) | Est. Crowd Noise @ Source (dBA) | Estimated Shielding (dBA) | Estimated Noise Level @ Reciever (dBA) |
|------------------------------|-----------------|---------------------------------|---------------------------|--|
| 1 1201 S. Main Street | | | | |
| N1: 5th Floor (North) | 390 | 85.06 | 20 | 47.22 |
| N2: 5th Floor (South) | 90 | 85.11 | 15 | 65.00 |
| N3: 30th Floor | 320 | 77.80 | 15 | 46.68 |
| Results (dBA Leq) | | | | 65.14 |
| 2 1100 S. Broadway | | | | |
| N1: 5th Floor (North) | 110 | 85.06 | 15 | 63.21 |
| N2: 5th Floor (South) | 465 | 85.11 | 20 | 45.74 |
| N3: 30th Floor | 330 | 77.80 | 15 | 46.41 |
| Results (dBA Leq) | | | | 63.37 |
| 3 1111 S. Broadway | | | | |
| N1: 5th Floor (North) | 215 | 85.06 | 15 | 57.39 |
| N2: 5th Floor (South) | 310 | 85.11 | 15 | 54.26 |
| N3: 30th Floor | 380 | 77.80 | 15 | 45.19 |
| Results (dBA Leq) | | | | 59.28 |
| 4 1100 S. Hill Street | | | | |
| N1: 5th Floor (North) | 345 | 85.06 | 20 | 48.28 |
| N2: 5th Floor (South) | 360 | 85.11 | 20 | 47.96 |
| N3: 30th Floor | 460 | 77.80 | 20 | 38.53 |
| Results (dBA Leq) | | | | 51.37 |

Note: Formulas provided by Caltrans Technical Noise Supplement (September 2013)



Stationary Mechanical Equipment Noise Worksheets

Project: Main Street Tower
Date: June 7, 2019
Analyst: Adrianna Gjonaj

| Sensitive Receptor | Distance to HVAC Equipment (feet) | HVAC Mechanical Noise | | |
|--------------------|-----------------------------------|---------------------------|---------------------------|--|
| | | Reference Level (dBA Leq) | Estimated Shielding (dBA) | Estimated Noise Level @ Reciever (dBA) |
| | | 74 | | |
| 1 | 395 | 56.05 | 0 | 38.09 |
| 2 | 400 | 55.94 | 0 | 37.88 |
| 3 | 380 | 56.38 | 0 | 38.77 |
| 4 | 460 | 54.72 | 10 | 25.45 |

Distances from Rooftop HVAC to Sensitive Receptors

| | Distance (x) | Height (y) | Distance |
|----|--------------|------------|----------|
| R1 | 245 | 313 | 397 |
| R2 | 250 | 313 | 401 |
| R3 | 215 | 313 | 380 |
| R5 | 340 | 313 | 462 |

Source: Federal Transit Administration, Transit Noise and Vibration Impact Assessment, Final Report, May 2006.



Composite Noise Levels for Proposed Project

Project: Main Street Tower
Date: September 20, 2021
Analyst: Adrianna Gjonaj

| Receptor | Address | Ambient Noise (dBA Leq) | Outdoor Decks | HVAC Equipment | Composite Noise Level | Significance Criteria (dBA Leq) | Significant Impact? |
|----------|------------------|-------------------------|---------------|----------------|-----------------------|---------------------------------|---------------------|
| 1 | 1201 S. Main St. | 62.50 | 65.14 | 38.09 | 67.03 | 67.50 | NO |
| 2 | 1100 S. Broadway | 74.00 | 63.37 | 37.88 | 74.36 | 79.00 | NO |
| 3 | 1111 S. Broadway | 69.50 | 59.28 | 38.77 | 69.90 | 74.50 | NO |
| 4 | 1100 S. Hill St. | 69.50 | 51.37 | 25.45 | 69.57 | 74.50 | NO |

Note: Formulas provided by Caltrans Technical Noise Supplement (September 2013): adding Sound Pressure Levels

Project: Main Street Tower
Date: June 7, 2019
Analyst: Adrianna Gjonaj

| Sensitive Receptor | Construction Equipment | Distance to Construction (feet) | PPV at 25 Feet (Inches/Second) | Maximum Vibration Levels during Construction |
|--------------------|------------------------|---------------------------------|--------------------------------|--|
| 1 | Loaded trucks | 12 | 0.076 | 0.17 |
| | Jackhammer | 12 | 0.035 | 0.08 |
| | Small Bulldozer | 12 | 0.003 | 0.01 |

Source: California Department of Transportation, Transportation and Construction Vibration Guidance Manual, Sept 2013.

*The peak vibration levels at the nearby sensitive receptors during project construction represents the highest instantaneous vibration level that would be generated periodically during a worst-case construction activity and does not represent continuous vibration levels occurring throughout the construction day or period. Note: heavier equipment were not included (large bulldozer, caisson drilling), since the Project Site would not involve caisson drilling.