

Appendix H-1

Field Data Noise Sheets

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FIELD NOISE MEASUREMENT DATA

PROJECT PETERIS & MURKIN PROJECT # 12761
 SITE ID _____ OBSERVER(S) PETE VITAR
 SITE ADDRESS _____
 START DATE 6/25/20 END DATE 6/25/20
 START TIME _____ END TIME _____

METEOROLOGICAL CONDITIONS
 TEMP 79 F HUMIDITY 49 % R.H. WIND CALM LIGHT MODERATE
 WINDSPD _____ MPH DIR. N NE S SE S SW W NW VARIABLE STEADY GUSTY
 SKY SUNNY CLEAR OVRCAST PTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS
 MEAS. INSTRUMENT PICCOLO SLM-3 TYPE 1 2 SERIAL # 130927046
 CALIBRATOR BSWA CA 114 SERIAL # 480157
 CALIBRATION CHECK _____ PRE-TEST _____ dBA SPL POST-TEST _____ dBA SPL WINDSCRN YES

SETTINGS A-WTD SLOW FAST FRONTAL RANDOM ANSI OTHER: _____

| REC. # | BEGIN | END | Leq | Lmax | Lmin | L90 | L50 | L10 | OTHER (SPECIFY METRIC) |
|-----------------|--------------|--------------|-------------|-------------|-------------|-----|-----|-----|------------------------|
| <u>ST-1</u> 1-2 | <u>10:53</u> | <u>11:08</u> | <u>60.5</u> | <u>83.3</u> | <u>52.3</u> | | | | |
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COMMENTS
READING: TAKEN AT SOUTH SIDE OF PARK PLACE MOBILE HOME COMMUNITY AT
80 EAST DAWES ST; PRIMARY NOISE SOURCE IS TRAFFIC ON EAST DAWES ST;

SOURCE INFO AND TRAFFIC COUNTS
 PRIMARY NOISE SOURCE TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER:
 ROADWAY TYPE: ASPHALT DIST. TO RDWY C/L OR EOP: 45' FROM EOP ON DAWES ST


| COUNT 1 (OR RDWY 1) | DIRECTION | MIN | | SPEED | | IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE | COUNT 2 (OR RDWY 2) | MIN | | SPEED | |
|------------------------|-----------|-----------|-------|-------|-------|--|------------------------|-------|-------|-------|-------|
| | | NB/EB | SB/WB | NB/EB | SB/WB | | | NB/EB | SB/WB | NB/EB | SB/WB |
| | AUTOS | <u>17</u> | | | | <input checked="" type="checkbox"/> | | | | | |
| | MED TRKS | <u>0</u> | | | | | | | | | |
| | HVY TRKS | <u>3</u> | | | | | | | | | |
| | BUSES | <u>0</u> | | | | | | | | | |
| | MOTRCLS | <u>0</u> | | | | | | | | | |

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
 POSTED SPEED LIMIT SIGNS SAY:

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS BIRDS DIST. INDUSTRIAL
 DIST. KIDS PLAYING DIST. CONVRTNS/YELLING DIST. TRAFFIC (LIST RDWYS BELOW) DISTD GARDENERS/LANDSCAPING NOISE
 OTHER: ONE VET AIRCRAFT FLYOVER DURING READING

DESCRIPTION / SKETCH
 TERRAIN HARD SOFT MIXED FLAT OTHER:
 PHOTOS 8241; 8242; 8243; 8244;
 OTHER COMMENTS / SKETCH

| | | | | | | | | | | | | | | |
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FIELD NOISE MEASUREMENT DATA

DUDEK

| | |
|------------------------------------|-------------------------------|
| PROJECT <u>PERRIS & MURKIN</u> | PROJECT # <u>12761</u> |
| SITE ID _____ | OBSERVER(S) <u>PETE VITAR</u> |
| SITE ADDRESS _____ | |
| START DATE <u>6/25/20</u> | END DATE <u>6/25/20</u> |
| START TIME _____ | END TIME _____ |

| METEOROLOGICAL CONDITIONS | | | | | | | | | |
|---|-----------------------|--------------|---------------------|-------------|-------------|------------|---------------------------|-----|------------------------|
| TEMP | <u>79</u> F | HUMIDITY | <u>49</u> % R.H. | WIND | <u>CALM</u> | LIGHT | MODERATE | | |
| WINDSPD | MPH | DIR. | N NE S SE S SW W NW | | VARIABLE | STEADY | GUSTY | | |
| SKY | <u>SUNNY</u> CLEAR | OVRCAST | <u>PRTLY CLDY</u> | FOG | RAIN | | | | |
| ACOUSTIC MEASUREMENTS | | | | | | | | | |
| MEAS. INSTRUMENT | <u>PICCOLLO SLM-3</u> | | | TYPE | <u>1</u> | <u>2</u> | SERIAL # <u>130927046</u> | | |
| CALIBRATOR | <u>BSWA CA 114</u> | | | | | | SERIAL # <u>480157</u> | | |
| CALIBRATION CHECK | PRE-TEST | dBa SPL | POST-TEST | dBa SPL | WINDSCRN | <u>YES</u> | | | |
| SETTINGS | | | | | | | | | |
| | <u>A-WTD</u> | <u>SLOW</u> | FAST | FRONTAL | RANDOM | ANSI | OTHER: _____ | | |
| REC. # | BEGIN | END | Leq | Lmax | Lmin | L90 | L50 | L10 | OTHER (SPECIFY METRIC) |
| <u>3-4</u> | <u>11:13</u> | <u>11:28</u> | <u>57.7</u> | <u>69.7</u> | <u>51.9</u> | | | | |
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| COMMENTS | | | | | | | | | |
| <u>READING TAKE AT SOUTH EAST CORNER OF GOLDRICH ST AND PERRIS ST (RESIDENCE);</u> <u>PRIMARY NOISE SOURCE IS DISTANT TRAFFIC FROM N. PERRIS BLVD AND</u> <u>TRANSUM EXPWY;</u> | | | | | | | | | |

| SOURCE INFO AND TRAFFIC COUNTS | | | | | | | | | | | |
|---|-----------|----------|-------|---|----------|------------------------|------------|--------------|-------|-------|--|
| PRIMARY NOISE SOURCE | | | | TRAFFIC | AIRCRAFT | RAIL | INDUSTRIAL | OTHER: _____ | | | |
| ROADWAY TYPE: <u>ASPHALT</u> | | | | DIST. TO RDWY (OR EOP): <u>20' FROM CENTERLINE OF GOLDRICH ST</u> | | | | | | | |
| TRAFFIC COUNT DURATION: <u>15</u> MIN | | SPEED | | MIN | | SPEED | | | | | |
| COUNT 1 (OR RDWY 1) | DIRECTION | NB/EB | SB/WB | NB/EB | SB/WB | COUNT 2 (OR RDWY 2) | NB/EB | SB/WB | NB/EB | SB/WB | |
| | AUTOS | <u>2</u> | | | | | | | | | |
| | MED TRKS | <u>0</u> | | | | | | | | | |
| | HVY TRKS | <u>0</u> | | | | | | | | | |
| | BUSES | <u>0</u> | | | | | | | | | |
| | MOTRCLS | <u>0</u> | | | | | | | | | |
| SPEEDS ESTIMATED BY: <u>RADAR / DRIVING THE PACE</u> | | | | | | | | | | | |
| POSTED SPEED LIMIT SIGNS SAY: _____ | | | | | | | | | | | |
| OTHER NOISE SOURCES (BACKGROUND): <u>DIST. AIRCRAFT</u> <u>RUSTLING LEAVES</u> <u>DIST. BARKING DOGS</u> <u>BIRDS</u> <u>DIST. INDUSTRIAL</u> | | | | | | | | | | | |
| <u>DIST. KIDS PLAYING</u> <u>DIST. CONVRTNS / YELLING</u> <u>DIST. TRAFFIC (LIST RDWYS BELOW)</u> <u>DIST GARDENERS/LANDSCAPING NOISE</u> | | | | | | | | | | | |
| OTHER: _____ | | | | | | | | | | | |

| DESCRIPTION / SKETCH | |
|--|---|
| TERRAIN | <u>HARD</u> <u>SOFT</u> <u>MIXED</u> <u>FLAT</u> OTHER: _____ |
| PHOTOS | <u>8246, 8247, 8248,</u> |
| OTHER COMMENTS / SKETCH | |
| <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 100%; height: 100%;"></div> </div> | |

FIELD NOISE MEASUREMENT DATA

DUDEK

| | |
|------------------------------------|-------------------------------|
| PROJECT <u>PETKIS & MURKIN</u> | PROJECT # <u>12761</u> |
| SITE ID _____ | OBSERVER(S) <u>PEPE VITAJ</u> |
| SITE ADDRESS _____ | |
| START DATE <u>6/25/20</u> | END DATE <u>6/25/20</u> |
| START TIME _____ | END TIME _____ |

METEOROLOGICAL CONDITIONS

| | | |
|------------------------|-------------------------------|---------------------------------|
| TEMP <u>82</u> F | HUMIDITY <u>45</u> % R.H. | WIND CALM <u>LIGHT</u> MODERATE |
| WINDSPD <u>3</u> MPH | DIR. N NE S SE S SW W NW | VARIABLE STEADY GUSTY |
| SKY <u>SUNNY</u> CLEAR | OVRCAST <u>PRTLY CLDY</u> FOG | RAIN |

ACOUSTIC MEASUREMENTS

| | | |
|---------------------------------------|------------------------|---------------------------|
| MEAS. INSTRUMENT <u>PICCOLO SLM-3</u> | TYPE 1 2 | SERIAL # <u>130927046</u> |
| CALIBRATOR <u>BSWA CA 114</u> | | SERIAL # <u>480157</u> |
| CALIBRATION CHECK _____ | PRE-TEST _____ dBA SPL | POST-TEST _____ dBA SPL |
| | | WINDSCRN <u>YES</u> |

SETTINGS

A-WTD SLOW FAST FRONTAL RANDOM ANSI OTHER: _____

| REC. # | BEGIN | END | Leq | Lmax | Lmin | L90 | L50 | L10 | OTHER (SPECIFY METRIC) |
|------------|--------------|--------------|-------------|-------------|-------------|-----|-----|-----|------------------------|
| <u>5-6</u> | <u>11:45</u> | <u>12:00</u> | <u>66.2</u> | <u>82.9</u> | <u>52.5</u> | | | | |
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COMMENTS

READING TAKEN IN FRONT OF 4111 BARRETT AVE (RESIDENTIAL);
PRIMARY NOISE SOURCE IS TRAFFIC ON INDIAN AVE (IMMEDIATELY TO THE WEST);
SECONDARY IS NOISE FROM NEARBY CONSTRUCTION VEHICLES (GRADE/J/DIRT
HAULERS/STREET SWEEPERS/WATER TRUCKS)

SOURCE INFO AND TRAFFIC COUNTS

PRIMARY NOISE SOURCE TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: _____

ROADWAY TYPE: ASPHALT DIST. TO RDWY C/L OR EOP: _____

TRAFFIC COUNT DURATION: 15 MIN SPEED _____

| COUNT 1 (OR RDWY 1) | DIRECTION | MIN | | SPEED | | IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE | COUNT 2 (OR RDWY 2) | MIN | | SPEED | |
|------------------------|-----------|-----------|-------|-------|-------|--|------------------------|-------|-------|-------|-------|
| | | NB/EB | SB/WB | NB/EB | SB/WB | | | NB/EB | SB/WB | NB/EB | SB/WB |
| | AUTOS | <u>36</u> | | | | <input checked="" type="checkbox"/> | | | | | |
| | MED TRKS | <u>7</u> | | | | | | | | | |
| | HVY TRKS | <u>27</u> | | | | | | | | | |
| | BUSES | <u>0</u> | | | | | | | | | |
| | MOTRCLS | <u>0</u> | | | | | | | | | |

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
 POSTED SPEED LIMIT SIGNS SAY: _____

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS BIRDS DIST. INDUSTRIAL
 DIST. KIDS PLAYING DIST. CONVRTNS / YELLING DIST. TRAFFIC (LIST RDWYS BELOW) DISTD GARDENERS/LANDSCAPING NOISE
 OTHER: REARVIEW MIRROR

DESCRIPTION / SKETCH

TERRAIN HARD SOFT MIXED FLAT OTHER: _____

PHOTOS 8251; 8252; 8253; 8254; 8255

OTHER COMMENTS / SKETCH

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FIELD NOISE MEASUREMENT DATA

PROJECT PETRIKIS & MURKIN PROJECT # 12761
 SITE ID _____ OBSERVER(S) PETE VITAR
 SITE ADDRESS _____
 START DATE 6/25/20 END DATE 6/25/20
 START TIME _____ END TIME _____

METEOROLOGICAL CONDITIONS
 TEMP 82 F HUMIDITY 45 % R.H. WIND CALM LIGHT MODERATE
 WINDSPD 3 MPH DIR. N NE S SE S SW W NW VARIABLE STEADY GUSTY
 SKY SUNNY CLEAR OVCAST PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS
 MEAS. INSTRUMENT PICCOLO SLM-3 TYPE 1 2 SERIAL # 130927046
 CALIBRATOR BSWA CA 114 SERIAL # 480157
 CALIBRATION CHECK PRE-TEST dBA SPL POST-TEST _____ dBA SPL WINDSCRN YES

SETTINGS A-WTD SLOW FAST FRONTAL RANDOM ANSI OTHER: _____

| REC. # | BEGIN | END | Leq | Lmax | Lmin | L90 | L50 | L10 | OTHER (SPECIFY METRIC) |
|----------------|--------------|--------------|-------------|-------------|-------------|-----|-----|-----|------------------------|
| <u>ST4-7-8</u> | <u>12:14</u> | <u>12:30</u> | <u>62.4</u> | <u>99.8</u> | <u>51.9</u> | | | | |
| | | | | | | | | | |
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COMMENTS
READING TAKEN IN FRONT OF 4003 N WEBSTER AVE (RESIDENTIAL);
PRIMARY NOISE SOURCE IS TRAFFIC ON N. WEBSTER AVE; SECONDARY IS
TRAFFIC ON RAMONA EXPWY TO THE WEST; NOISE FROM GAS STATION/CAR
WASH IMMEDIATELY TO THE SOUTH;

SOURCE INFO AND TRAFFIC COUNTS
 PRIMARY NOISE SOURCE TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER:
 ROADWAY TYPE: AS PAVT DIST. TO RDWY C/L OR EOP: 30' TO C/L ON N. WEBSTER AVE

| COUNT 1 (OR RDWY 1) | DIRECTION | DURATION: <u>15</u> MIN | | SPEED | | COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE | COUNT 2 (OR RDWY 2) | DURATION: _____ MIN | | SPEED | |
|------------------------|-----------|-------------------------|-------|-------|-------|---|------------------------|---------------------|-------|-------|--|
| | | NB/EB | SB/WB | NB/EB | SB/WB | | | NB/EB | SB/WB | | |
| | AUTOS | <u>57</u> | | | | <input checked="" type="checkbox"/> | | | | | |
| | MED TRKS | <u>8</u> | | | | | | | | | |
| | HVY TRKS | <u>8</u> | | | | | | | | | |
| | BUSES | <u>0</u> | | | | | | | | | |
| | MOTRCLS | <u>1</u> | | | | | | | | | |

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
 POSTED SPEED LIMIT SIGNS SAY: 35 MPH

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS BIRDS DIST. INDUSTRIAL
 DIST. KIDS PLAYING DIST. CONVRTNS / YELLING DIST. TRAFFIC (LIST RDWYS BELOW) DIST. GARDENERS / LANDSCAPING NOISE
 OTHER: RAMONA EXPWY TO THE WEST; ONE JET AIRCRAFT
FLY OVER DURING READING;

DESCRIPTION / SKETCH
 TERRAIN HARD SOFT MIXED FLAT OTHER:
 PHOTOS 8257; 8258; 8259; 8260;
 OTHER COMMENTS / SKETCH

FIELD NOISE MEASUREMENT DATA

PROJECT PETRIKIS & MURKIN PROJECT # 12761
 SITE ID _____
 SITE ADDRESS _____ OBSERVER(S) PETE VITAR
 START DATE 6/25/20 END DATE 6/25/20
 START TIME _____ END TIME _____

METEOROLOGICAL CONDITIONS
 TEMP 84 F HUMIDITY 41 % R.H. WIND CALM LIGHT MODERATE
 WINDSPD 2 MPH DIR. N NE S SE S SW W NW VARIABLE STEADY GUSTY
 SKY SUNNY CLEAR OVRCAST PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS
 MEAS. INSTRUMENT PICCOLO SLM-3 TYPE 1 2 SERIAL # 130927046
 CALIBRATOR BSWA CA 114 SERIAL # 480157
 CALIBRATION CHECK PRE-TEST dBA SPL POST-TEST _____ dBA SPL WINDSCRN YES

SETTINGS A-WTD SLOW FAST FRONTAL RANDOM ANSI OTHER: _____

| REC. # | BEGIN | END | Leq | Lmax | Lmin | L90 | L50 | L10 | OTHER (SPECIFY METRIC) |
|-------------|--------------|--------------|-------------|-------------|-------------|-----|-----|-----|------------------------|
| <u>9-10</u> | <u>12:42</u> | <u>12:57</u> | <u>65.6</u> | <u>92.4</u> | <u>54.8</u> | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

COMMENTS NW CORNER
READING TAKEN AT NW CORNER OF VAL VERDE RELIGIOUS LEARNING CENTER (972 MORAN ST);
PRIMARY NOISE SOURCE IS TRAFFIC ON N. WEBSTER AVE; SECONDARY IS TRAFFIC ON
MURKIN ST & DISTANT TRAFFIC ON 215 FWY

SOURCE INFO AND TRAFFIC COUNTS
 PRIMARY NOISE SOURCE TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: _____
 ROADWAY TYPE: ASPHALT DIST. TO RDWY C/L OR EOP: 10' TO EOP ON WEBSTER AVE

| COUNT 1 (OR RDWY 1) | DIRECTION | MIN | | SPEED | | IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE | COUNT 2 (OR RDWY 2) | MIN | | SPEED | |
|------------------------|-----------|-----------|-------|-------|-------|--|------------------------|-------|-------|-------|-------|
| | | NB/EB | SB/WB | NB/EB | SB/WB | | | NB/EB | SB/WB | NB/EB | SB/WB |
| | AUTOS | <u>39</u> | | | | <input checked="" type="checkbox"/> | | | | | |
| | MED TRKS | <u>2</u> | | | | | | | | | |
| | HVY TRKS | <u>2</u> | | | | | | | | | |
| | BUSES | <u>0</u> | | | | | | | | | |
| | MOTRCLS | <u>0</u> | | | | | | | | | |

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
 POSTED SPEED LIMIT SIGNS SAY: 35 MPH

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS BIRDS DIST. INDUSTRIAL
DIST. KIDS PLAYING DIST. CONVERSATIONS / YELLING (DIST. TRAFFIC (LIST RDWYS BELOW) DISTD GARDENERS/LANDSCAPING NOISE
 OTHER: DISTANT TRAFFIC NOISE ON 215 FWY TO THE WEST
MILITANT JET AIRCRAFT FLOWER DURING READING

DESCRIPTION / SKETCH
 TERRAIN MIXED SOFT MIXED FLAT OTHER: _____
 PHOTOS 8262; 8263; 8264; 8265; 8266;
 OTHER COMMENTS / SKETCH _____

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FIELD NOISE MEASUREMENT DATA

PROJECT PERRIS & MORGAN PROJECT # 12761
 SITE ID _____
 SITE ADDRESS _____ OBSERVER(S) PETE VITAJR
 START DATE 6/25/20 END DATE 6/25/20
 START TIME _____ END TIME _____

METEOROLOGICAL CONDITIONS
 TEMP 86 F HUMIDITY 38 % R.H. WIND CALM LIGHT MODERATE
 WINDSPD 3 MPH DIR. N NE S SE S SW W NW VARIABLE STEADY GUSTY
 SKY SUNNY CLEAR OVRCAST PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS
 MEAS. INSTRUMENT PICCOLO SLM-3 TYPE 1 2 SERIAL # 130927046
 CALIBRATOR BSWA CA 114 SERIAL # 480157
 CALIBRATION CHECK PRE-TEST dBA SPL POST-TEST _____ dBA SPL WINDSCRN YES

SETTINGS A-WTD SLOW FAST FRONTAL RANDOM ANSI OTHER: _____

STG

| REC. # | BEGIN | END | Leq | Lmax | Lmin | L90 | L50 | L10 | OTHER (SPECIFY METRIC) |
|--------------|--------------|--------------|-------------|-------------|-------------|-----|-----|-----|------------------------|
| <u>11-12</u> | <u>13:18</u> | <u>13:33</u> | <u>72.5</u> | <u>96.7</u> | <u>53.0</u> | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

COMMENTS
READING TAKEN AT NW CORNER OF N. PERRIS BLVD & ENSEADA DR. BEHIND RESIDENCE AT ENSEADA DR & SANTO TOMAS (377); PRIMARY NOISE SOURCE IS TRAFFIC ON N. PERRIS BLVD.

SOURCE INFO AND TRAFFIC COUNTS

| PRIMARY NOISE SOURCE | | TRAFFIC | | AIRCRAFT | | RAIL | | INDUSTRIAL | | OTHER: | | |
|---------------------------------------|-----------|---------------------------|-------|----------|-------|------------------------|-----------|------------|-------|--------|-------|--|
| ROADWAY TYPE: | | DIST. TO RDWY C/L OR EOP: | | MIN | | SPEED | | MIN | | SPEED | | |
| TRAFFIC COUNT DURATION: <u>15</u> MIN | | MIN | | SPEED | | MIN | | SPEED | | MIN | | |
| COUNT 1 (OR RDWY 1) | DIRECTION | NB/EB | SB/WB | NB/EB | SB/WB | COUNT 2 (OR RDWY 2) | DIRECTION | NB/EB | SB/WB | NB/EB | SB/WB | |
| | AUTOS | <u>418</u> | | | | | | | | | | |
| | MED TRKS | <u>1</u> | | | | | | | | | | |
| | HVY TRKS | <u>2</u> | | | | | | | | | | |
| | BUSES | <u>2</u> | | | | | | | | | | |
| | MOTRCLS | <u>1</u> | | | | | | | | | | |

TRAFFIC COUNT DURATION: 15 MIN
 SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
 POSTED SPEED LIMIT SIGNS SAY: _____
 OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT BUSTLING LEAVES DIST. BARKING DOGS BIRDS DIST. INDUSTRIAL
 DIST. KIDS PLAYING DIST. CONVRSTNS / YELLING DIST. TRAFFIC (LIST RDWYS BELOW) DIST GARDENERS/LANDSCAPING NOISE
 OTHER: _____

DESCRIPTION / SKETCH
 TERRAIN HARD SOFT MIXED FLAT OTHER: _____
 PHOTOS 8268; 8269; 8270; 8271;
 OTHER COMMENTS / SKETCH _____

| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
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Appendix H-2

Construction Noise Modeling Input and Output

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Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 7/16/2020
 Case Description: Perrrs and Morgon Project - Site Prep

---- Receptor #1 ----

| Description | Land Use | Baselines (dBA) | | |
|--------------|-------------|-----------------|---------|-------|
| | | Daytime | Evening | Night |
| Church to SE | Residential | 65 | 60 | 55 |

| Description | Impact Device | Usage(%) | Equipment | | | |
|------------------|---------------|----------|-----------------|-------------------|--------------------------|---------------------------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | Estimated Shielding (dBA) |
| Dozer | No | 40 | | 81.7 | 1100 | 0 |
| Dozer | No | 40 | | 81.7 | 1200 | 0 |
| Dozer | No | 40 | | 81.7 | 1400 | 0 |
| Backhoe | No | 40 | | 77.6 | 1100 | 0 |
| Front End Loader | No | 40 | | 79.1 | 1200 | 0 |
| Tractor | No | 40 | 84 | | 1400 | 0 |
| Front End Loader | No | 40 | | 79.1 | 1300 | 0 |

Results

| Equipment | Calculated (dBA) | | Noise Limits (dBA) | | | |
|------------------|------------------|------|--------------------|-----|---------|-----|
| | *Lmax | Leq | Day | | Evening | |
| | | | Lmax | Leq | Lmax | Leq |
| Dozer | 54.8 | 50.8 | N/A | N/A | N/A | N/A |
| Dozer | 54.1 | 50.1 | N/A | N/A | N/A | N/A |
| Dozer | 52.7 | 48.7 | N/A | N/A | N/A | N/A |
| Backhoe | 50.7 | 46.7 | N/A | N/A | N/A | N/A |
| Front End Loader | 51.5 | 47.5 | N/A | N/A | N/A | N/A |
| Tractor | 55.1 | 51.1 | N/A | N/A | N/A | N/A |
| Front End Loader | 50.8 | 46.8 | N/A | N/A | N/A | N/A |
| Total | 55.1 | 57.6 | N/A | N/A | N/A | N/A |

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

| Description | Land Use | Baselines (dBA) | | |
|------------------|-------------|-----------------|---------|-------|
| | | Daytime | Evening | Night |
| Residences to SE | Residential | 65 | 60 | 55 |

| Description | Impact Device | Usage(%) | Equipment | | | |
|-------------|---------------|----------|-----------------|-------------------|--------------------------|---------------------------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | Estimated Shielding (dBA) |

| | | | | | | |
|------------------|----|----|----|------|------|---|
| Dozer | No | 40 | | 81.7 | 1475 | 0 |
| Dozer | No | 40 | | 81.7 | 1550 | 0 |
| Dozer | No | 40 | | 81.7 | 1650 | 0 |
| Backhoe | No | 40 | | 77.6 | 1475 | 0 |
| Front End Loader | No | 40 | | 79.1 | 1550 | 0 |
| Tractor | No | 40 | 84 | | 1650 | 0 |
| Front End Loader | No | 40 | | 79.1 | 1500 | 0 |

Results

| Equipment | Calculated (dBA) | | | Noise Limits (dBA) | | |
|------------------|------------------|------|------|--------------------|---------|-----|
| | *Lmax | Leq | Day | Leq | Evening | |
| | | | Lmax | | Lmax | Leq |
| Dozer | 52.3 | 48.3 | N/A | N/A | N/A | N/A |
| Dozer | 51.8 | 47.9 | N/A | N/A | N/A | N/A |
| Dozer | 51.3 | 47.3 | N/A | N/A | N/A | N/A |
| Backhoe | 48.2 | 44.2 | N/A | N/A | N/A | N/A |
| Front End Loader | 49.3 | 45.3 | N/A | N/A | N/A | N/A |
| Tractor | 53.6 | 49.7 | N/A | N/A | N/A | N/A |
| Front End Loader | 49.6 | 45.6 | N/A | N/A | N/A | N/A |
| Total | 53.6 | 55.7 | N/A | N/A | N/A | N/A |

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

| Description | Land Use | Baselines (dBA) | | |
|------------------|-------------|-----------------|---------|-------|
| | | Daytime | Evening | Night |
| Residences to NE | Residential | 65 | 60 | 55 |

| Description | Impact Device | Usage(%) | Equipment | | | |
|------------------|---------------|----------|-----------------|-------------------|--------------------------|---------------------------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | Estimated Shielding (dBA) |
| | | | Dozer | No | 40 | 81.7 |
| Dozer | No | 40 | 81.7 | 1650 | 0 | |
| Dozer | No | 40 | 81.7 | 1750 | 0 | |
| Backhoe | No | 40 | 77.6 | 1550 | 0 | |
| Front End Loader | No | 40 | 79.1 | 1650 | 0 | |
| Tractor | No | 40 | 84 | 1750 | 0 | |
| Front End Loader | No | 40 | 79.1 | 1550 | 0 | |

Results

| Equipment | Calculated (dBA) | | | Noise Limits (dBA) | | |
|-----------|------------------|------|------|--------------------|---------|-----|
| | *Lmax | Leq | Day | Leq | Evening | |
| | | | Lmax | | Lmax | Leq |
| Dozer | 51.8 | 47.9 | N/A | N/A | N/A | N/A |
| Dozer | 51.3 | 47.3 | N/A | N/A | N/A | N/A |
| Dozer | 50.8 | 46.8 | N/A | N/A | N/A | N/A |
| Backhoe | 47.7 | 43.8 | N/A | N/A | N/A | N/A |

| | | | | | | |
|------------------|------|------|-----|-----|-----|-----|
| Front End Loader | 48.7 | 44.8 | N/A | N/A | N/A | N/A |
| Tractor | 53.1 | 49.1 | N/A | N/A | N/A | N/A |
| Front End Loader | 49.3 | 45.3 | N/A | N/A | N/A | N/A |
| Total | 53.1 | 55.2 | N/A | N/A | N/A | N/A |

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 7/16/2020
Case Description: Perrrs and Morgon Project - Grading

---- Receptor #1 ----

| Description | Land Use | Baselines (dBA) | | |
|--------------|-------------|-----------------|---------|-------|
| | | Daytime | Evening | Night |
| Church to SE | Residential | 65 | 60 | 55 |

| Description | Device | Usage(%) | Equipment | | | |
|------------------|--------|----------|-----------------|-------------------|--------------------------|---------------------------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | Estimated Shielding (dBA) |
| Excavator | No | 40 | | 80.7 | 1100 | 0 |
| Excavator | No | 40 | | 80.7 | 1200 | 0 |
| Grader | No | 40 | 85 | | 1300 | 0 |
| Dozer | No | 40 | | 81.7 | 1100 | 0 |
| Scraper | No | 40 | | 83.6 | 1200 | 0 |
| Scraper | No | 40 | | 83.6 | 1300 | 0 |
| Backhoe | No | 40 | | 77.6 | 1400 | 0 |
| Front End Loader | No | 40 | | 79.1 | 1200 | 0 |

Results

| Equipment | Calculated (dBA) | | Noise Limits (dBA) | | | |
|------------------|------------------|------|--------------------|-----|--------------|-----|
| | *Lmax | Leq | Day Lmax | Leq | Evening Lmax | Leq |
| Excavator | 53.9 | 49.9 | N/A | N/A | N/A | N/A |
| Excavator | 53.1 | 49.1 | N/A | N/A | N/A | N/A |
| Grader | 56.7 | 52.7 | N/A | N/A | N/A | N/A |
| Dozer | 54.8 | 50.8 | N/A | N/A | N/A | N/A |
| Scraper | 56 | 52 | N/A | N/A | N/A | N/A |
| Scraper | 55.3 | 51.3 | N/A | N/A | N/A | N/A |
| Backhoe | 48.6 | 44.6 | N/A | N/A | N/A | N/A |
| Front End Loader | 51.5 | 47.5 | N/A | N/A | N/A | N/A |
| Total | 56.7 | 59.4 | N/A | N/A | N/A | N/A |

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

| Description | Land Use | Baselines (dBA) | | |
|------------------|-------------|-----------------|---------|-------|
| | | Daytime | Evening | Night |
| Residences to SE | Residential | 65 | 60 | 55 |

| Description | Impact Device | Usage(%) | Equipment | | | |
|------------------|---------------|----------|-----------------|-------------------|--------------------------|---------------------------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | Estimated Shielding (dBA) |
| Excavator | No | 40 | | 80.7 | 1475 | 0 |
| Excavator | No | 40 | | 80.7 | 1550 | 0 |
| Grader | No | 40 | 85 | | 1650 | 0 |
| Dozer | No | 40 | | 81.7 | 1475 | 0 |
| Scraper | No | 40 | | 83.6 | 1550 | 0 |
| Scraper | No | 40 | | 83.6 | 1650 | 0 |
| Backhoe | No | 40 | | 77.6 | 1500 | 0 |
| Front End Loader | No | 40 | | 79.1 | 1600 | 0 |

Results

| Equipment | Calculated (dBA) | | | Noise Limits (dBA) | | |
|------------------|------------------|------|------|--------------------|---------|-----|
| | *Lmax | Leq | Day | Leq | Evening | |
| | | | Lmax | | Lmax | Leq |
| Excavator | 51.3 | 47.3 | N/A | N/A | N/A | N/A |
| Excavator | 50.9 | 46.9 | N/A | N/A | N/A | N/A |
| Grader | 54.6 | 50.7 | N/A | N/A | N/A | N/A |
| Dozer | 52.3 | 48.3 | N/A | N/A | N/A | N/A |
| Scraper | 53.8 | 49.8 | N/A | N/A | N/A | N/A |
| Scraper | 53.2 | 49.2 | N/A | N/A | N/A | N/A |
| Backhoe | 48 | 44 | N/A | N/A | N/A | N/A |
| Front End Loader | 49 | 45 | N/A | N/A | N/A | N/A |
| Total | 54.6 | 57.2 | N/A | N/A | N/A | N/A |

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

| Description | Land Use | Baselines (dBA) | | |
|------------------|-------------|-----------------|---------|-------|
| | | Daytime | Evening | Night |
| Residences to NE | Residential | 65 | 60 | 55 |

| Description | Impact Device | Usage(%) | Equipment | | | |
|-------------|---------------|----------|-----------------|-------------------|--------------------------|---------------------------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | Estimated Shielding (dBA) |
| Excavator | No | 40 | | 80.7 | 1500 | 0 |
| Excavator | No | 40 | | 80.7 | 1600 | 0 |
| Grader | No | 40 | 85 | | 1800 | 0 |
| Dozer | No | 40 | | 81.7 | 1500 | 0 |
| Scraper | No | 40 | | 83.6 | 1600 | 0 |

| | | | | | |
|------------------|----|----|------|------|---|
| Scraper | No | 40 | 83.6 | 1800 | 0 |
| Backhoe | No | 40 | 77.6 | 1600 | 0 |
| Front End Loader | No | 40 | 79.1 | 1700 | 0 |

Results

| Equipment | Calculated (dBA) | | Noise Limits (dBA) | | | |
|------------------|------------------|------|--------------------|-----|---------|-----|
| | *Lmax | Leq | Day | | Evening | |
| | | | Lmax | Leq | Lmax | Leq |
| Excavator | 51.2 | 47.2 | N/A | N/A | N/A | N/A |
| Excavator | 50.6 | 46.6 | N/A | N/A | N/A | N/A |
| Grader | 53.9 | 49.9 | N/A | N/A | N/A | N/A |
| Dozer | 52.1 | 48.1 | N/A | N/A | N/A | N/A |
| Scraper | 53.5 | 49.5 | N/A | N/A | N/A | N/A |
| Scraper | 52.5 | 48.5 | N/A | N/A | N/A | N/A |
| Backhoe | 47.5 | 43.5 | N/A | N/A | N/A | N/A |
| Front End Loader | 48.5 | 44.5 | N/A | N/A | N/A | N/A |
| Total | 53.9 | 56.7 | N/A | N/A | N/A | N/A |

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 7/16/2020
Case Description: Perrrs and Morgon Project - Building Construction

---- Receptor #1 ----

| Description | Land Use | Baselines (dBA) | | |
|--------------|-------------|-----------------|---------|-------|
| | | Daytime | Evening | Night |
| Church to SE | Residential | 65 | 60 | 55 |

| Description | Impact Device | Usage(%) | Equipment | | | |
|------------------|---------------|----------|-----------------|-------------------|--------------------------|---------------------------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | Estimated Shielding (dBA) |
| | | | Crane | No | 16 | 80.6 |
| Man Lift | No | 20 | 74.7 | 1200 | 0 | |
| Man Lift | No | 20 | 74.7 | 1300 | 0 | |
| Man Lift | No | 20 | 74.7 | 1400 | 0 | |
| Generator | No | 50 | 80.6 | 1100 | 0 | |
| Tractor | No | 40 | 84 | 1200 | 0 | |
| Front End Loader | No | 40 | 79.1 | 1300 | 0 | |
| Backhoe | No | 40 | 77.6 | 1200 | 0 | |
| Welder / Torch | No | 40 | 74 | 1100 | 0 | |

Results

| Equipment | Calculated (dBA) | | | Noise Limits (dBA) | | |
|------------------|------------------|------|------|--------------------|---------|-----|
| | *Lmax | Leq | Day | Leq | Evening | |
| | | | Lmax | | Lmax | Leq |
| Crane | 53.7 | 45.7 | N/A | N/A | N/A | N/A |
| Man Lift | 47.1 | 40.1 | N/A | N/A | N/A | N/A |
| Man Lift | 46.4 | 39.4 | N/A | N/A | N/A | N/A |
| Man Lift | 45.8 | 38.8 | N/A | N/A | N/A | N/A |
| Generator | 53.8 | 50.8 | N/A | N/A | N/A | N/A |
| Tractor | 56.4 | 52.4 | N/A | N/A | N/A | N/A |
| Front End Loader | 50.8 | 46.8 | N/A | N/A | N/A | N/A |
| Backhoe | 50 | 46 | N/A | N/A | N/A | N/A |
| Welder / Torch | 47.2 | 43.2 | N/A | N/A | N/A | N/A |
| Total | 56.4 | 56.7 | N/A | N/A | N/A | N/A |

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

| Description | Land Use | Baselines (dBA) | | |
|------------------|-------------|-----------------|---------|-------|
| | | Daytime | Evening | Night |
| Residences to SE | Residential | 65 | 60 | 55 |

| Description | Device | Usage(%) | Equipment | | | | |
|------------------|--------|----------|-----------|-----------------|-------------------|--------------------------|---------------------------|
| | | | Impact | Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | Estimated Shielding (dBA) |
| | | | No | | | | |
| Crane | No | 16 | | 80.6 | 1475 | 0 | |
| Man Lift | No | 20 | | 74.7 | 1550 | 0 | |
| Man Lift | No | 20 | | 74.7 | 1650 | 0 | |
| Man Lift | No | 20 | | 74.7 | 1475 | 0 | |
| Generator | No | 50 | | 80.6 | 1550 | 0 | |
| Tractor | No | 40 | 84 | | 1650 | 0 | |
| Front End Loader | No | 40 | | 79.1 | 1500 | 0 | |
| Backhoe | No | 40 | | 77.6 | 1600 | 0 | |
| Welder / Torch | No | 40 | | 74 | 1550 | 0 | |

Results

| Equipment | Calculated (dBA) | | | Noise Limits (dBA) | | |
|------------------|------------------|------|------|--------------------|---------|-----|
| | *Lmax | Leq | Day | Leq | Evening | |
| | | | Lmax | | Lmax | Leq |
| Crane | 51.2 | 43.2 | N/A | N/A | N/A | N/A |
| Man Lift | 44.9 | 37.9 | N/A | N/A | N/A | N/A |
| Man Lift | 44.3 | 37.3 | N/A | N/A | N/A | N/A |
| Man Lift | 45.3 | 38.3 | N/A | N/A | N/A | N/A |
| Generator | 50.8 | 47.8 | N/A | N/A | N/A | N/A |
| Tractor | 53.6 | 49.7 | N/A | N/A | N/A | N/A |
| Front End Loader | 49.6 | 45.6 | N/A | N/A | N/A | N/A |
| Backhoe | 47.5 | 43.5 | N/A | N/A | N/A | N/A |
| Welder / Torch | 44.2 | 40.2 | N/A | N/A | N/A | N/A |

Total 53.6 54.2 N/A N/A N/A N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Baselines (dBA)

| Description | Land Use | Daytime | Evening | Night |
|------------------|-------------|---------|---------|-------|
| Residences to NE | Residential | 65 | 60 | 55 |

Equipment

| Description | Impact Device | Usage(%) | Spec | Actual | Receptor | Estimated |
|------------------|---------------|----------|------------|------------|-----------------|-----------------|
| | | | Lmax (dBA) | Lmax (dBA) | Distance (feet) | Shielding (dBA) |
| Crane | No | 16 | | 80.6 | 1550 | 0 |
| Man Lift | No | 20 | | 74.7 | 1650 | 0 |
| Man Lift | No | 20 | | 74.7 | 1750 | 0 |
| Man Lift | No | 20 | | 74.7 | 1550 | 0 |
| Generator | No | 50 | | 80.6 | 1650 | 0 |
| Tractor | No | 40 | 84 | | 1750 | 0 |
| Front End Loader | No | 40 | | 79.1 | 1850 | 0 |
| Backhoe | No | 40 | | 77.6 | 1550 | 0 |
| Welder / Torch | No | 40 | | 74 | 1650 | 0 |

Results

| Equipment | Calculated (dBA) | | Noise Limits (dBA) | | | |
|------------------|------------------|------|--------------------|---------|------|-----|
| | *Lmax | Leq | Day | Evening | | |
| | | | Lmax | Leq | Lmax | Leq |
| Crane | 50.7 | 42.8 | N/A | N/A | N/A | N/A |
| Man Lift | 44.3 | 37.3 | N/A | N/A | N/A | N/A |
| Man Lift | 43.8 | 36.8 | N/A | N/A | N/A | N/A |
| Man Lift | 44.9 | 37.9 | N/A | N/A | N/A | N/A |
| Generator | 50.3 | 47.2 | N/A | N/A | N/A | N/A |
| Tractor | 53.1 | 49.1 | N/A | N/A | N/A | N/A |
| Front End Loader | 47.7 | 43.8 | N/A | N/A | N/A | N/A |
| Backhoe | 47.7 | 43.8 | N/A | N/A | N/A | N/A |
| Welder / Torch | 43.6 | 39.7 | N/A | N/A | N/A | N/A |
| Total | 53.1 | 53.6 | N/A | N/A | N/A | N/A |

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 7/16/2020
 Case Description: Perrrs and Morgon Project - Paving

---- Receptor #1 ----

| Description | Land Use | Baselines (dBA) | | |
|--------------|-------------|-----------------|---------|-------|
| | | Daytime | Evening | Night |
| Church to SE | Residential | 65 | 60 | 55 |

| Description | Device | Usage(%) | Equipment | | | Estimated Shielding (dBA) |
|----------------------|--------|----------|-----------------|-------------------|--------------------------|---------------------------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | |
| Paver | No | 50 | 77.2 | 1100 | 0 | |
| Paver | No | 50 | 77.2 | 1200 | 0 | |
| Concrete Mixer Truck | No | 40 | 78.8 | 1300 | 0 | |
| Concrete Pump Truck | No | 20 | 81.4 | 1400 | 0 | |
| Roller | No | 20 | 80 | 1100 | 0 | |
| Roller | No | 20 | 80 | 1200 | 0 | |

| Equipment | Results | | | | | |
|----------------------|------------------|------|----------|--------------------|--------------|-----|
| | Calculated (dBA) | | | Noise Limits (dBA) | | |
| | *Lmax | Leq | Day Lmax | Leq | Evening Lmax | Leq |
| Paver | 50.4 | 47.4 | N/A | N/A | N/A | N/A |
| Paver | 49.6 | 46.6 | N/A | N/A | N/A | N/A |
| Concrete Mixer Truck | 50.5 | 46.5 | N/A | N/A | N/A | N/A |
| Concrete Pump Truck | 52.5 | 45.5 | N/A | N/A | N/A | N/A |
| Roller | 53.2 | 46.2 | N/A | N/A | N/A | N/A |
| Roller | 52.4 | 45.4 | N/A | N/A | N/A | N/A |
| Total | 53.2 | 54.1 | N/A | N/A | N/A | N/A |

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

| Description | Land Use | Baselines (dBA) | | |
|------------------|-------------|-----------------|---------|-------|
| | | Daytime | Evening | Night |
| Residences to SE | Residential | 65 | 60 | 55 |

| Description | Device | Usage(%) | Equipment | | | Estimated Shielding (dBA) |
|----------------------|--------|----------|-----------------|-------------------|--------------------------|---------------------------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | |
| Paver | No | 50 | 77.2 | 1475 | 0 | |
| Paver | No | 50 | 77.2 | 1550 | 0 | |
| Concrete Mixer Truck | No | 40 | 78.8 | 1650 | 0 | |
| Concrete Pump Truck | No | 20 | 81.4 | 1475 | 0 | |
| Roller | No | 20 | 80 | 1550 | 0 | |
| Roller | No | 20 | 80 | 1650 | 0 | |

| Calculated (dBA) | Results | |
|------------------|---------|---------|
| | Day | Evening |

| Equipment | *Lmax | Leq | Lmax | Leq | Lmax | Leq |
|----------------------|-------|------|------|-----|------|-----|
| Paver | 47.8 | 44.8 | N/A | N/A | N/A | N/A |
| Paver | 47.4 | 44.4 | N/A | N/A | N/A | N/A |
| Concrete Mixer Truck | 48.4 | 44.5 | N/A | N/A | N/A | N/A |
| Concrete Pump Truck | 52 | 45 | N/A | N/A | N/A | N/A |
| Roller | 50.2 | 43.2 | N/A | N/A | N/A | N/A |
| Roller | 49.6 | 42.6 | N/A | N/A | N/A | N/A |
| Total | 52 | 51.9 | N/A | N/A | N/A | N/A |

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

| Description | Land Use | Baselines (dBA) | | |
|------------------|-------------|-----------------|---------|-------|
| | | Daytime | Evening | Night |
| Residences to NE | Residential | 65 | 60 | 55 |

| Description | Device | Usage(%) | Equipment | | | Estimated Shielding (dBA) |
|----------------------|--------|----------|-----------------|-------------------|--------------------------|---------------------------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | |
| Paver | No | 50 | 77.2 | 1550 | 0 | |
| Paver | No | 50 | 77.2 | 1650 | 0 | |
| Concrete Mixer Truck | No | 40 | 78.8 | 1750 | 0 | |
| Concrete Pump Truck | No | 20 | 81.4 | 1550 | 0 | |
| Roller | No | 20 | 80 | 1650 | 0 | |
| Roller | No | 20 | 80 | 1750 | 0 | |

Results

| Equipment | Calculated (dBA) | | Noise Limits (dBA) | | | |
|----------------------|------------------|------|--------------------|-----|--------------|-----|
| | *Lmax | Leq | Day Lmax | Leq | Evening Lmax | Leq |
| Paver | 47.4 | 44.4 | N/A | N/A | N/A | N/A |
| Paver | 46.8 | 43.8 | N/A | N/A | N/A | N/A |
| Concrete Mixer Truck | 47.9 | 43.9 | N/A | N/A | N/A | N/A |
| Concrete Pump Truck | 51.6 | 44.6 | N/A | N/A | N/A | N/A |
| Roller | 49.6 | 42.6 | N/A | N/A | N/A | N/A |
| Roller | 49.1 | 42.1 | N/A | N/A | N/A | N/A |
| Total | 51.6 | 51.5 | N/A | N/A | N/A | N/A |

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 7/16/2020
Case Description: Perrrs and Morgon Project - Architectural Coating

---- Receptor #1 ----

Description
Church to SE

Land Use
Residential

Baselines (dBA)
Daytime Evening Night
65 60 55

Equipment
Spec Actual Receptor Estimated
Impact Lmax Lmax Distance Shielding
Device Usage(%) (dBA) (dBA) (feet) (dBA)
Compressor (air) No 40 77.7 1100 0

Results

Calculated (dBA) Noise Limits (dBA)
Day Evening
Equipment *Lmax Leq Lmax Leq Lmax Leq
Compressor (air) 50.8 46.8 N/A N/A N/A N/A
Total 50.8 46.8 N/A N/A N/A N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description
Residences to SE

Land Use
Residential

Baselines (dBA)
Daytime Evening Night
65 60 55

Equipment
Spec Actual Receptor Estimated
Impact Lmax Lmax Distance Shielding
Device Usage(%) (dBA) (dBA) (feet) (dBA)
Compressor (air) No 40 77.7 1475 0

Results

Calculated (dBA) Noise Limits (dBA)
Day Evening
Equipment *Lmax Leq Lmax Leq Lmax Leq
Compressor (air) 48.3 44.3 N/A N/A N/A N/A
Total 48.3 44.3 N/A N/A N/A N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Description
Residences to NE

Land Use
Residential

Baselines (dBA)
Daytime Evening Night
65 60 55

Equipment
Spec Actual Receptor Estimated
Impact Lmax Lmax Distance Shielding
Device Usage(%) (dBA) (dBA) (feet) (dBA)
Description

| | | | | | |
|------------------|----|----|------|------|---|
| Compressor (air) | No | 40 | 77.7 | 1550 | 0 |
|------------------|----|----|------|------|---|

Results

| | | Calculated (dBA) | | Noise Limits (dBA) | | | |
|------------------|-------|------------------|------|--------------------|-----|---------|-----|
| | | | | Day | | Evening | |
| Equipment | | *Lmax | Leq | Lmax | Leq | Lmax | Leq |
| Compressor (air) | | 47.8 | 43.9 | N/A | N/A | N/A | N/A |
| | Total | 47.8 | 43.9 | N/A | N/A | N/A | N/A |

*Calculated Lmax is the Loudest value.

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Appendix H-3

Equipment Noise Calculations

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Appendix H-3

Equipment Noise Calculations

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MECHANICAL EQUIPMENT NOISE LEVEL

Location:
NE Nearest Receiver 3700 4600 0

| Equip Site | Source Coordinates | | | Receiver Coordinates | | Location-Equipment | Leq (h) at 50' (dBA) | Receiver Elevation (feet) | Source Elevation (feet) | Source to Receiver (feet) | Source to Barrier (feet) | Receiver to Barrier (feet) | Barrier (base) (feet) | Barrier Height (feet) | Fresnel No. at 500 Hz | Barrier Attenuation (dBA) | Leq w/o Barrier (dBA) | Leq w/Barrier (dBA) |
|------------|--------------------|------|------|----------------------|------|--------------------|----------------------|---------------------------|-------------------------|---------------------------|--------------------------|----------------------------|-----------------------|-----------------------|-----------------------|---------------------------|-----------------------|---------------------|
| | X | Y | Z | X | Y | | | | | | | | | | | | | |
| NE1 | 2990 | 3205 | 36.5 | 3700 | 4600 | York ZF-048 | 51 | 5 | 39.5 | 1,565 | 20 | 1,545 | 36.5 | 3.5 | 0.02 | 5 | 21 | 16 |
| NE2 | 3010 | 3205 | 36.5 | 3700 | 4600 | York ZF-048 | 51 | 5 | 39.5 | 1,556 | 20 | 1,536 | 36.5 | 3.5 | 0.02 | 5 | 21 | 16 |
| NE3 | 2830 | 3205 | 36.5 | 3700 | 4600 | York ZF-048 | 51 | 5 | 39.5 | 1,644 | 20 | 1,624 | 36.5 | 3.5 | 0.02 | 5 | 21 | 16 |
| NE4 | 2850 | 3205 | 36.5 | 3700 | 4600 | York ZF-048 | 51 | 5 | 39.5 | 1,634 | 20 | 1,614 | 36.5 | 3.5 | 0.02 | 5 | 21 | 16 |
| SE1 | 3205 | 2225 | 36.5 | 3700 | 4600 | York ZF-048 | 51 | 5 | 39.5 | 2,426 | 730 | 1,696 | 36.5 | 3.5 | 0.10 | 7 | 18 | 11 |
| SE2 | 3225 | 2225 | 36.5 | 3700 | 4600 | York ZF-048 | 51 | 5 | 39.5 | 2,422 | 730 | 1,692 | 36.5 | 3.5 | 0.10 | 7 | 18 | 11 |

TOTAL LEQ: 29 23

Without Barrier With Barrier/Parapet

| Site | X | Y | Elev. At Roof or Ground | Source Height | LwA | | Sound Level at 50 feet Total | Equip. Location Site / Number | Frequency (in Hz) |
|------|------|------|-------------------------|---------------|---------------|-----------------|------------------------------|-------------------------------|-------------------|
| | | | | | Single Source | Number of Units | | | |
| NE1 | 2990 | 3205 | 36.5 | 3 | 80 | 2 | 51 | NE1 York ZF-048 | 500 |
| NE2 | 3010 | 3205 | 36.5 | 3 | 80 | 2 | 51 | NE2 York ZF-048 | |
| NE3 | 2830 | 3205 | 36.5 | 3 | 80 | 2 | 51 | NE3 York ZF-048 | |
| NE4 | 2850 | 3205 | 36.5 | 3 | 80 | 2 | 51 | NE4 York ZF-048 | |
| SE1 | 3205 | 2225 | 36.5 | 3 | 80 | 2 | 51 | SE1 York ZF-048 | |
| SE2 | 3225 | 2225 | 36.5 | 3 | 80 | 2 | 51 | SE2 York ZF-048 | |

| Receivers at P.L. | | | | Building Elevation | Roof Elevation |
|-------------------|------|------|---|--------------------|----------------|
| SE1 | 3700 | 900 | 0 | 0 | 36.5 |
| SE2 | 3700 | 525 | 0 | | |
| NE1 | 3700 | 4600 | 0 | | |

MECHANICAL EQUIPMENT NOISE LEVEL

Location:
SE Nearest Receiver 3700 900 0

| Equip Site | Source Coordinates | | | Receiver Coordinates | | Location-Equipment | Leq (h) at 50' (dBA) | Receiver Elevation (feet) | Source Elevation (feet) | Source to Receiver (feet) | Source to Barrier (feet) | Receiver to Barrier (feet) | Barrier (base) (feet) | Barrier Height (feet) | Fresnel No. at 500 Hz | Barrier Attenuation (dBA) | Leq w/o Barrier (dBA) | Leq w/Barrier (dBA) |
|------------|--------------------|------|------|----------------------|-----|--------------------|----------------------|---------------------------|-------------------------|---------------------------|--------------------------|----------------------------|-----------------------|-----------------------|-----------------------|---------------------------|-----------------------|---------------------|
| | X | Y | Z | X | Y | | | | | | | | | | | | | |
| NE1 | 2990 | 3205 | 36.5 | 3700 | 900 | York ZF-048 | 51 | 5 | 39.5 | 2,412 | 160 | 2,252 | 36.5 | 3.5 | 0.02 | 5 | 18 | 12 |
| NE2 | 3010 | 3205 | 36.5 | 3700 | 900 | York ZF-048 | 51 | 5 | 39.5 | 2,406 | 160 | 2,246 | 36.5 | 3.5 | 0.02 | 5 | 18 | 12 |
| NE3 | 2830 | 3205 | 36.5 | 3700 | 900 | York ZF-048 | 51 | 5 | 39.5 | 2,464 | 160 | 2,304 | 36.5 | 3.5 | 0.02 | 5 | 17 | 12 |
| NE4 | 2850 | 3205 | 36.5 | 3700 | 900 | York ZF-048 | 51 | 5 | 39.5 | 2,457 | 160 | 2,297 | 36.5 | 3.5 | 0.02 | 5 | 18 | 12 |
| SE1 | 3205 | 2140 | 36.5 | 3700 | 900 | York ZF-048 | 51 | 5 | 39.5 | 1,335 | 20 | 1,315 | 36.5 | 3.5 | 0.02 | 5 | 23 | 17 |
| SE2 | 3225 | 2140 | 36.5 | 3700 | 900 | York ZF-048 | 51 | 5 | 39.5 | 1,328 | 20 | 1,308 | 36.5 | 3.5 | 0.02 | 5 | 23 | 17 |

TOTAL LEQ: 28 23

Without Barrier With Barrier/Parapet

| Site | X | Y | Elev. At Roof or Ground | Source Height | LwA Single Source | Number of Units | Sound Level at 50 feet Total | Equip. Location Site / Number | | Frequency (in Hz) |
|------|------|------|-------------------------|---------------|-------------------|-----------------|------------------------------|-------------------------------|-------------|-------------------|
| | | | | | | | | | | |
| NE1 | 2990 | 3205 | 36.5 | 3 | 80 | 2 | 51 | NE1 | York ZF-048 | 500 |
| NE2 | 3010 | 3205 | 36.5 | 3 | 80 | 2 | 51 | NE2 | York ZF-048 | |
| NE3 | 2830 | 3205 | 36.5 | 3 | 80 | 2 | 51 | NE3 | York ZF-048 | |
| NE4 | 2850 | 3205 | 36.5 | 3 | 80 | 2 | 51 | NE4 | York ZF-048 | |
| SE1 | 3205 | 2140 | 36.5 | 3 | 80 | 2 | 51 | SE1 | York ZF-048 | |
| SE2 | 3225 | 2140 | 36.5 | 3 | 80 | 2 | 51 | SE2 | York ZF-048 | |

| Receivers at P.L. | | | | Building Elevation | Roof Elevation |
|-------------------|------|------|---|--------------------|----------------|
| SE1 | 3700 | 900 | 0 | 0 | 36.5 |
| SE2 | 3700 | 525 | 0 | | |
| NE1 | 3500 | 4600 | 0 | | |

MECHANICAL EQUIPMENT NOISE LEVEL

Location:
SE Next-Nearest Receivers 3700 525 0

| Equip Site | Source Coordinates | | | Receiver Coordinates | | Location-Equipment | Leq (h) at 50' (dBA) | Receiver Elevation (feet) | Source Elevation (feet) | Source to Receiver (feet) | Source to Barrier (feet) | Receiver to Barrier (feet) | Barrier (base) (feet) | Barrier Height (feet) | Fresnel No. at 500 Hz | Barrier Attenuation (dBA) | Leq w/o Barrier (dBA) | Leq w/Barrier (dBA) |
|------------|--------------------|------|------|----------------------|-----|--------------------|----------------------|---------------------------|-------------------------|---------------------------|--------------------------|----------------------------|-----------------------|-----------------------|-----------------------|---------------------------|-----------------------|---------------------|
| | X | Y | Z | X | Y | | | | | | | | | | | | | |
| NE1 | 2990 | 3205 | 36.5 | 3700 | 525 | York ZF-048 | 51 | 5 | 39.5 | 2,772 | 160 | 2,612 | 36.5 | 3.5 | 0.02 | 5 | 16 | 11 |
| NE2 | 3010 | 3205 | 36.5 | 3700 | 525 | York ZF-048 | 51 | 5 | 39.5 | 2,767 | 160 | 2,607 | 36.5 | 3.5 | 0.02 | 5 | 16 | 11 |
| NE3 | 2830 | 3205 | 36.5 | 3700 | 525 | York ZF-048 | 51 | 5 | 39.5 | 2,818 | 160 | 2,658 | 36.5 | 3.5 | 0.02 | 5 | 16 | 11 |
| NE4 | 2850 | 3205 | 36.5 | 3700 | 525 | York ZF-048 | 51 | 5 | 39.5 | 2,812 | 160 | 2,652 | 36.5 | 3.5 | 0.02 | 5 | 16 | 11 |
| SE1 | 3205 | 2140 | 36.5 | 3700 | 525 | York ZF-048 | 51 | 5 | 39.5 | 1,689 | 20 | 1,669 | 36.5 | 3.5 | 0.02 | 5 | 21 | 15 |
| SE2 | 3225 | 2140 | 36.5 | 3700 | 525 | York ZF-048 | 51 | 5 | 39.5 | 1,683 | 20 | 1,663 | 36.5 | 3.5 | 0.02 | 5 | 21 | 16 |

TOTAL LEQ: 27 21

Without Barrier With Barrier/Parapet

| Site | X | Y | Elev. At Roof or Ground | Source Height | LwA Single Source | Number of Units | Sound Level at 50 feet Total | Equip. Location Site / Number | | Frequency (in Hz) |
|------|------|------|-------------------------|---------------|-------------------|-----------------|------------------------------|-------------------------------|-------------|-------------------|
| | | | | | | | | NE1 | York ZF-048 | |
| NE1 | 2990 | 3205 | 36.5 | 3 | 80 | 2 | 51 | NE1 | York ZF-048 | 500 |
| NE2 | 3010 | 3205 | 36.5 | 3 | 80 | 2 | 51 | NE2 | York ZF-048 | 500 |
| NE3 | 2830 | 3205 | 36.5 | 3 | 80 | 2 | 51 | NE3 | York ZF-048 | 500 |
| NE4 | 2850 | 3205 | 36.5 | 3 | 80 | 2 | 51 | NE4 | York ZF-048 | 500 |
| SE1 | 3205 | 2140 | 36.5 | 3 | 80 | 2 | 51 | SE1 | York ZF-048 | 500 |
| SE2 | 3225 | 2140 | 36.5 | 3 | 80 | 2 | 51 | SE2 | York ZF-048 | 500 |

| Receivers at P.L. | | | | Building Elevation | Roof Elevation |
|-------------------|------|------|---|--------------------|----------------|
| SE1 | 3700 | 900 | 0 | 0 | 36.5 |
| SE2 | 3700 | 525 | 0 | | |
| NE1 | 3500 | 4600 | 0 | | |



TECHNICAL GUIDE

R-410A ZE/ZF/ZR/XN/XP SERIES 3 - 6 TON 60 Hertz



Description

YORK® ZE/ZF/ZR/XN/XP Series units are convertible single package high efficiency rooftops with a common roof curb for the 3, 4, 5 and 6 Ton sizes (ZE, ZR, XN, XP not available in 6 Ton). Although the units are primarily designed for curb mounting on a roof, they can also be slab-mounted at ground level or set on steel beams above a finished roof.

All ZE/ZF/ZR/XN/XP Series units are self-contained and assembled on rigid full perimeter base rails allowing for overhead rigging. Every unit is completely charged, wired, piped and tested at the factory to provide a quick and easy field installation.

All models (including those with an economizer) are convertible between bottom and horizontal duct connections.

ZE/ZF/ZR Series units are available in the following configurations: cooling only, cooling with electric heat, and cooling with one or two stage gas heat. Electric heaters are available as factory-installed option or field installed accessory.

XN/XP Series units are available in the following configurations: cooling and heating only and cooling and heating with electric heat.

Tested in accordance with:

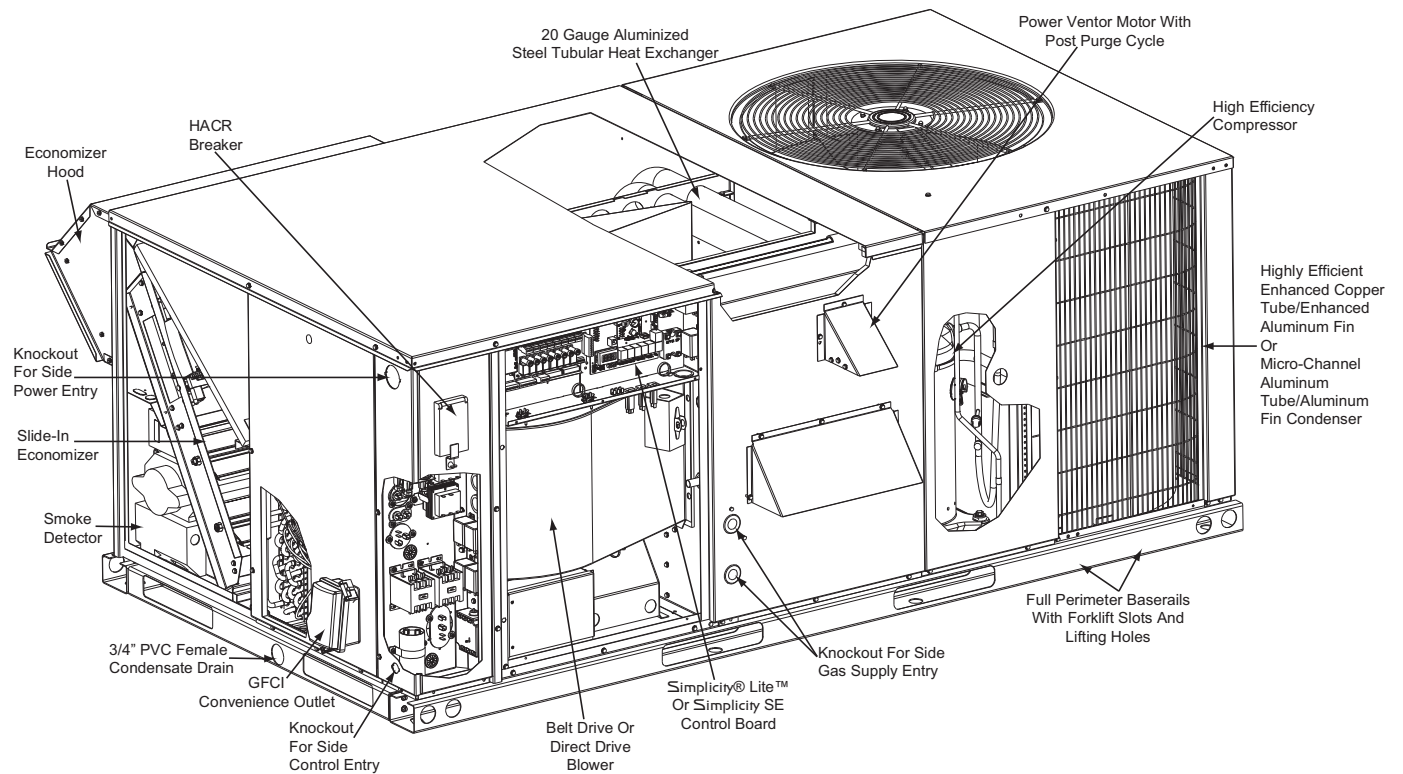


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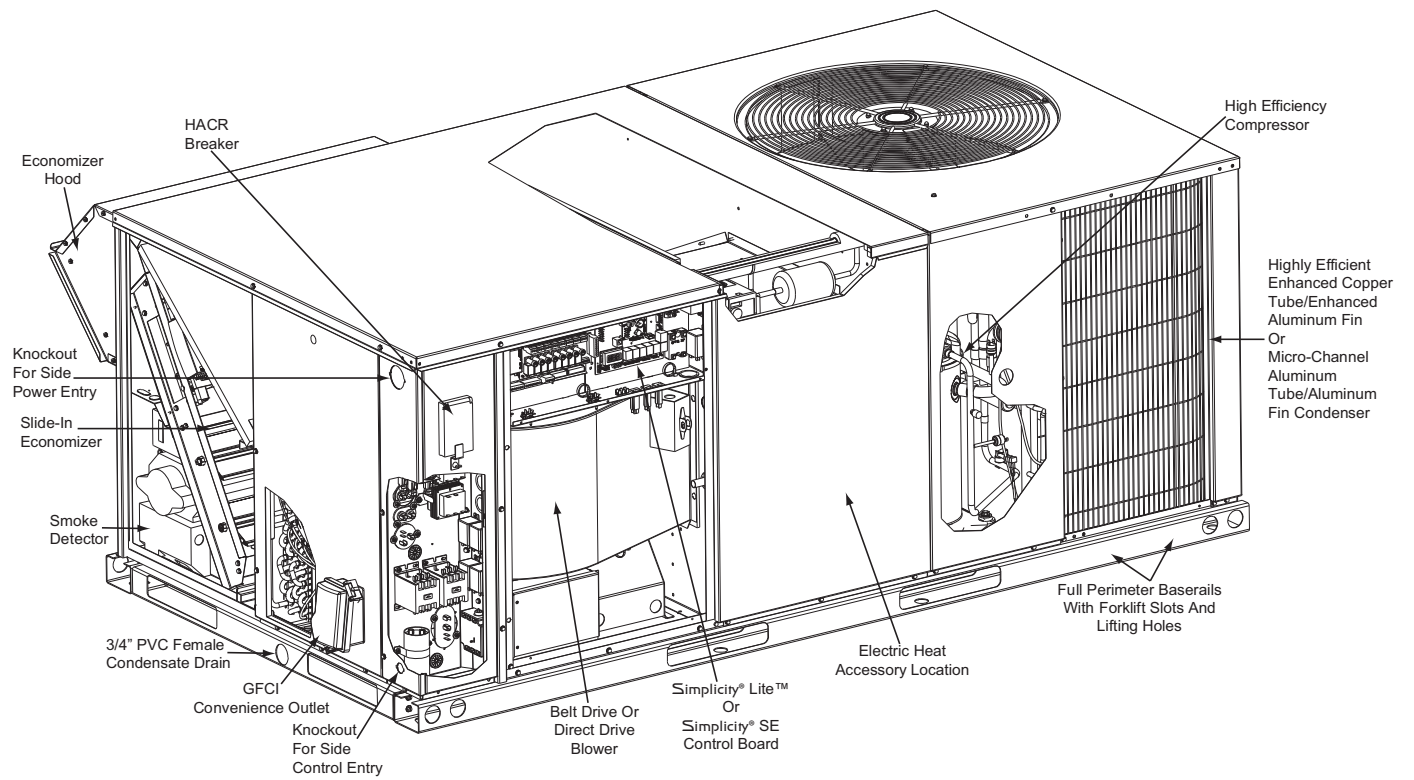
| | |
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| Typical Field Power and Control Wiring | 143 |
| Weights and Dimensions | 147 |

Component Location

Gas/Electric



Electric/Electric and Heat Pump



Sound Performance

ZF/ZR/XP Indoor Sound Power Levels

| Size (Tons) | CFM | ESP (IWG) | Blower | | Sound Power, dB (10 ⁻¹²) Watts | | | | | | | | |
|----------------|------|--------------|--------|------|--|---------------------------------------|-----|-----|-----|------|------|------|------|
| | | | | | Sound Rating ¹ dB (A) | Octave Band Centerline Frequency (Hz) | | | | | | | |
| | | | RPM | BHP | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 036 (3.0) | 1200 | 0.2 | 630 | 0.41 | 63 | 82 | 77 | 59 | 50 | 43 | 42 | 40 | 45 |
| 048 (4.0) | 1600 | 0.2 | 791 | 0.54 | 72 | 95 | 84 | 58 | 54 | 46 | 44 | 45 | 44 |
| 060 (5.0) | 2000 | 0.2 | 840 | 0.67 | 62 | 84 | 71 | 58 | 53 | 50 | 49 | 49 | 49 |
| 072 (6.0) | 2200 | 0.3 | 920 | 1.45 | 76 | 61 | 71 | 68 | 67 | 72 | 66 | 61 | 54 |

1. These values have been accessed using a model of sound propagation from a point source into the hemispheric/free field. The dBA values provided are to be used for reference only. Calculation of dBA values cover matters of system design and the fan manufacture has no way of knowing the details of each system. This constitutes an exception to any specification or guarantee requiring a dBA value of sound data in any other form than sound power level ratings.

ZE/ZF/ZR Outdoor Sound Power Levels

| Size (Tons) | Sound Rating ¹ dB (A) | Octave Band Centerline Frequency (Hz) | | | | | | | |
|----------------|-------------------------------------|---------------------------------------|------|------|------|------|------|------|------|
| | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 036 (3.0) | 81 | 87.5 | 86.0 | 81.0 | 77.0 | 75.0 | 69.5 | 65.5 | 70.5 |
| 048 (4.0) | 80 | 84.5 | 81.0 | 80.0 | 78.0 | 75.0 | 70.0 | 67.0 | 70.5 |
| 060 (5.0) | 82 | 86.5 | 87.5 | 81.5 | 77.5 | 75.0 | 71.5 | 68.0 | 70.5 |
| 072 (6.0) | 83 | - | 84.0 | 85.0 | 79.0 | 80.0 | 72.0 | 67.5 | 62.5 |

1. Rated in accordance with AHRI 270 standard.

XN/XP Outdoor Sound Power Levels

| Size (Tons) | Sound Rating ¹ dB (A) | Octave Band Centerline Frequency (Hz) | | | | | | | |
|----------------|-------------------------------------|---------------------------------------|------|------|------|------|------|------|------|
| | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 036 (3.0) | 76 | 83.5 | 84.5 | 76.5 | 72.0 | 68.0 | 66.0 | 60.0 | 56.0 |
| 048 (4.0) | 80 | 85.0 | 83.0 | 81.0 | 77.5 | 75.5 | 71.5 | 67.5 | 61.5 |
| 060 (5.0) | 80 | 86.0 | 84.0 | 81.0 | 77.0 | 75.5 | 71.0 | 66.5 | 60.5 |

1. Rated in accordance with AHRI 270 standard.

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253 Vehicular Back-up Alarm

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- Operates on 12-48VDC power
- Universal mounting
- Ambient noise adjustment technology
- 80 pulses per minute
- Produces 82-107 dBa @ 4'
- Type 4X enclosure
- UL Listed

Unit of Purchase: 1

Part Number: 253-012-048

\$192.16 USD

In Stock - Ships in 2 Bus Days

Quantity:

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253 Horn Tone



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AGENCY CERTIFICATES

 **UL and cUL Certificate of Compliance - 253 (<https://www.fedsig.com/resource-document/file/14338>)**

Features

Model 253 is a unique back-up alarm that samples the ambient noise levels surrounding the vehicle and adjusts its sound output automatically.

By “listening” to the surrounding sound levels, Model 253 will continuously adjust the output to provide 10 dBa (± 4) over ambient noise levels.

This self-adjusting vehicular alarm provides just the right level of audible signal required to warn employees of an approaching forklift or tow motor.

Specifications

Body Color

Black

Operating Temperature (C)

-40 to 85

Operating Temperature (F)

-40 to 185

Enclosure Rating

Type 4X

Environmental Rating

Ordinary Location

Mount Type

Universal

Operating Current (Amps)

0.25

Voltage

12-48VDC

Warranty

Five-Year

Depth (in)

3.78

Height (in)

3.06

Width (in)

5

Weight (lbs)

1.44

Weight (Kg)

0.65

SKU Specifications

Show entries

Search:

| SKU | Shipping Weight (Kg) | Shipping Weight (lbs) | UPC | dBa @ 4 ft |
|-------------|----------------------|-----------------------|--------------|------------|
| 253-012-048 | 0.73 | 1.6 | 782979200239 | 82-107 |

Showing 1 to 1 of 1 entries

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RAY-TRACE PROGRAM (FOR A POINT-SOURCE)

Uses the Equation: $(A_{e4})_{point} = 20 \cdot \log[(2 \cdot \pi \cdot N)^{1/2} / \tanh(2 \cdot \pi \cdot N)^{1/2}] + 5 \text{dB}$
 (Ref. Pg.174, Noise and Vibration Control, L.L. Beranek Editor, 1971 Ed.

Project: Perris_Morgan Warehouse Project

Date: 09/17/20

By: MG

Please Enter: Using English (E) units or Metric (M) units ?

| Ray Trace Number/Description | Source-Receiver Distance (ft. or m) | Source Base Elev. (ft. or m) | Source Height above Ground (ft. or m) | Receiver Base Elev. (ft. or m) | Receiver Height above Ground (ft. or m) | Horizontal Barrier Dist. (in ref. to source) (ft. or m) | Barrier Base Elev. (ft. or m) | Barrier Height (ft. or m) | Dominant Freq.(Hz) | Source-Rcvr Straight-Line Dist. (ft. or m) | Source-Top-of-Barrier Dist. (ft. or m) | Receiver-Top-of-Barrier Dist. (ft. or m) | Lambda | N _{max} | AE _(barriers) (dB) |
|---------------------------------|-------------------------------------|------------------------------|---------------------------------------|--------------------------------|---|---|-------------------------------|---------------------------|--------------------|--|--|--|--------|------------------|-------------------------------|
| 1. Source -Truck Noise at N. PL | 1400.0 | 0.0 | 10.0 | 0.0 | 5.0 | 20.0 | 0.0 | 40.0 | 500.0 | 1400.0 | 36.1 | 1380.4 | 2.3 | 14.6 | 24.6 |

Appendix H-4

Traffic Noise Calculations

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INPUT: ROADWAYS

Perris and Morgon Warehouse PN 12761

| Dudek MG | | | | 14 August 2020 TNM 2.5 | | | | | | | |
|---|-------|-------------|-----|--|---------|----------|---|------------------|---------------------------|-----------|------------|
| INPUT: ROADWAYS | | | | PROJECT/CONTRACT: Perris and Morgon Warehouse PN 12761 | | | Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA | | | | |
| RUN: Existing | | | | | | | | | | | |
| Roadway Name | Width | Points Name | No. | Coordinates (pavement) | | | Flow Control | | | Segment | |
| | | | | X | Y | Z | Control Device | Speed Constraint | Percent Vehicles Affected | Pvmt Type | On Struct? |
| | ft | | | ft | ft | ft | | mph | % | | |
| N. Perris Blvd - s. of Sinclair Street | 80.0 | point64 | 64 | 10,176.7 | 344.4 | 1,450.00 | | | | Average | |
| | | point5 | 5 | 10,168.4 | 1,887.5 | 1,450.00 | | | | Average | |
| | | point90 | 90 | 10,164.2 | 3,193.6 | 1,450.00 | | | | | |
| Sinclair Street - w. of N. Perris Blvd. | 80.0 | point68 | 68 | 9,602.5 | 3,261.6 | 1,450.00 | | | | Average | |
| | | point34 | 34 | 9,817.7 | 3,240.8 | 1,450.00 | | | | Average | |
| | | point35 | 35 | 10,033.0 | 3,181.7 | 1,450.00 | | | | Average | |
| | | point36 | 36 | 10,154.5 | 3,195.6 | 1,450.00 | | | | | |
| Morgon St - w. of Webster Ave | 80.0 | point70 | 70 | 3,511.2 | 4,630.2 | 1,450.00 | | | | Average | |
| | | point23 | 23 | 3,796.7 | 4,643.4 | 1,450.00 | | | | Average | |
| | | point24 | 24 | 4,498.7 | 4,660.8 | 1,450.00 | | | | Average | |
| | | point25 | 25 | 4,774.3 | 4,639.0 | 1,450.00 | | | | | |
| Ramona Exprsswy - w of Webster Ave | 80.0 | point72 | 72 | 2,296.6 | 6,759.1 | 1,450.00 | | | | Average | |
| | | point11 | 11 | 2,921.5 | 6,974.3 | 1,450.00 | | | | Average | |
| | | point12 | 12 | 3,209.6 | 7,073.3 | 1,450.00 | | | | Average | |
| | | point13 | 13 | 3,371.1 | 7,118.4 | 1,450.00 | | | | Average | |
| | | point14 | 14 | 3,428.4 | 7,137.5 | 1,450.00 | | | | Average | |
| | | point15 | 15 | 3,466.5 | 7,134.0 | 1,450.00 | | | | Average | |
| | | point16 | 16 | 4,787.6 | 7,142.7 | 1,450.00 | | | | | |
| Webster Ave - s. of Morgon Ave | 80.0 | point74 | 74 | 4,791.2 | 2,066.1 | 1,450.00 | | | | Average | |
| | | point61 | 61 | 4,782.4 | 4,646.9 | 1,450.00 | | | | | |
| Ramona Exprsswy - e of Webster Ave | 80.0 | point77 | 77 | 4,800.6 | 7,142.7 | 1,450.00 | | | | Average | |
| | | point17 | 17 | 6,159.8 | 7,134.4 | 1,450.00 | | | | Average | |
| | | point18 | 18 | 7,537.6 | 7,131.7 | 1,450.00 | | | | Average | |
| | | point19 | 19 | 8,844.7 | 7,121.2 | 1,450.00 | | | | | |
| Webster Ave - s. of Ramona Exprsswy | 80.0 | point78 | 78 | 4,782.4 | 4,646.9 | 1,450.00 | | | | Average | |

INPUT: ROADWAYS

Perris and Morgon Warehouse PN 12761

| | | | | | | | | | | | |
|--|------|---------|----|----------|---------|----------|--|--|--|--|---------|
| | | point62 | 62 | 4,793.5 | 7,138.0 | 1,450.00 | | | | | |
| Webster Ave - n. of Ramona Exprsswy | 80.0 | point79 | 79 | 4,793.5 | 7,138.0 | 1,450.00 | | | | | Average |
| | | point2 | 2 | 4,793.5 | 8,394.9 | 1,450.00 | | | | | |
| Morgon St - e. of Webster Ave | 80.0 | point80 | 80 | 4,800.3 | 4,639.0 | 1,450.00 | | | | | Average |
| | | point26 | 26 | 6,176.2 | 4,628.0 | 1,450.00 | | | | | Average |
| | | point27 | 27 | 7,509.9 | 4,578.5 | 1,450.00 | | | | | |
| Morgon St - e. of Indian Ave | 80.0 | point81 | 81 | 7,559.9 | 4,578.5 | 1,450.00 | | | | | Average |
| | | point28 | 28 | 7,829.6 | 4,561.9 | 1,450.00 | | | | | Average |
| | | point29 | 29 | 8,028.0 | 4,506.8 | 1,450.00 | | | | | Average |
| | | point30 | 30 | 8,860.2 | 4,501.3 | 1,450.00 | | | | | Average |
| | | point31 | 31 | 10,147.3 | 4,501.3 | 1,450.00 | | | | | |
| Ramona Exprsswy - e. of indian Ave | 80.0 | point82 | 82 | 8,874.7 | 7,121.2 | 1,450.00 | | | | | Average |
| | | point20 | 20 | 10,164.0 | 7,117.8 | 1,450.00 | | | | | |
| Indian Avenue - n. of Ramona Exprsswy | 80.0 | point83 | 83 | 8,851.3 | 7,146.2 | 1,450.00 | | | | | Average |
| | | point54 | 54 | 8,823.5 | 7,687.8 | 1,450.00 | | | | | Average |
| | | point55 | 55 | 8,795.7 | 7,847.5 | 1,450.00 | | | | | Average |
| | | point56 | 56 | 8,718.6 | 8,040.4 | 1,450.00 | | | | | Average |
| | | point57 | 57 | 8,622.2 | 8,189.2 | 1,450.00 | | | | | Average |
| | | point58 | 58 | 8,525.9 | 8,333.5 | 1,450.00 | | | | | Average |
| | | point59 | 59 | 8,490.9 | 8,412.3 | 1,450.00 | | | | | |
| Ramona Exprsswy - e. of Perris Blvd. | 80.0 | point84 | 84 | 10,194.0 | 7,117.8 | 1,450.00 | | | | | Average |
| | | point21 | 21 | 11,448.5 | 7,124.7 | 1,450.00 | | | | | |
| N. Perris Blvd - n. of Ramona Exprsswy | 80.0 | point85 | 85 | 10,171.1 | 7,127.1 | 1,450.00 | | | | | Average |
| | | point9 | 9 | 10,192.0 | 8,265.9 | 1,450.00 | | | | | |
| N. Perris Blvd - s. of Ramona Exprsswy-2 | 80.0 | point86 | 86 | 10,160.1 | 4,499.7 | 1,450.00 | | | | | Average |
| | | point7 | 7 | 10,169.8 | 5,836.2 | 1,450.00 | | | | | Average |
| | | point8 | 8 | 10,171.1 | 7,127.1 | 1,450.00 | | | | | |
| Morgon St - e. of N. Perris Blvd. | 80.0 | point87 | 87 | 10,177.3 | 4,501.3 | 1,450.00 | | | | | Average |
| | | point32 | 32 | 11,340.9 | 4,492.6 | 1,450.00 | | | | | |
| Sinclair Street - e. of N. Perris Blvd | 80.0 | point88 | 88 | 10,184.5 | 3,195.6 | 1,450.00 | | | | | Average |
| | | point37 | 37 | 11,328.0 | 3,181.7 | 1,450.00 | | | | | |
| Indian Avenue - s. of Ramona Exprsswy | 80.0 | point89 | 89 | 7,552.4 | 4,568.8 | 1,450.00 | | | | | Average |
| | | point46 | 46 | 7,565.5 | 4,896.9 | 1,450.00 | | | | | Average |
| | | point47 | 47 | 7,679.3 | 5,233.7 | 1,450.00 | | | | | Average |
| | | point48 | 48 | 7,937.4 | 5,583.6 | 1,450.00 | | | | | Average |
| | | point49 | 49 | 8,374.8 | 5,863.6 | 1,450.00 | | | | | Average |
| | | point50 | 50 | 8,637.3 | 6,134.8 | 1,450.00 | | | | | Average |
| | | point51 | 51 | 8,816.6 | 6,493.4 | 1,450.00 | | | | | Average |
| | | point52 | 52 | 8,851.3 | 6,903.2 | 1,450.00 | | | | | Average |

INPUT: ROADWAYS**Perris and Morgon Warehouse PN 12761**

| | | | | | | | | | | | |
|--|------|---------|----|----------|---------|----------|--|--|--|---------|--|
| | | point53 | 53 | 8,851.3 | 7,146.2 | 1,450.00 | | | | | |
| N. Perris Blvd - n. of Sinclair Street | 80.0 | point91 | 91 | 10,164.2 | 3,193.6 | 1,450.00 | | | | Average | |
| | | point6 | 6 | 10,160.1 | 4,499.7 | 1,450.00 | | | | | |

INPUT: TRAFFIC FOR LAeq1h Volumes

Perris and Morgon Warehouse PN 12761

| Dudek | | 14 August 2020 | | | | | | | | | | |
|---|---------|--------------------------------------|---------|-----|---------|-----|---------|-----|--------|-----|-------------|-----|
| MG | | TNM 2.5 | | | | | | | | | | |
| INPUT: TRAFFIC FOR LAeq1h Volumes | | | | | | | | | | | | |
| PROJECT/CONTRACT: | | Perris and Morgon Warehouse PN 12761 | | | | | | | | | | |
| RUN: | | Existing | | | | | | | | | | |
| Roadway | Points | | | | | | | | | | | |
| Name | Name | No. | Segment | | MTrucks | | HTrucks | | Buses | | Motorcycles | |
| | | | Autos | | | | | | | | | |
| | | | V | S | V | S | V | S | V | S | V | S |
| | | | veh/hr | mph | veh/hr | mph | veh/hr | mph | veh/hr | mph | veh/hr | mph |
| N. Perris Blvd - s. of Sinclair Street | point64 | 64 | 1188 | 45 | 158 | 45 | 238 | 45 | 0 | 0 | 0 | 0 |
| | point5 | 5 | 1188 | 45 | 158 | 45 | 238 | 45 | 0 | 0 | 0 | 0 |
| | point90 | 90 | | | | | | | | | | |
| Sinclair Street - w. of N. Perris Blvd. | point68 | 68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | point34 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | point35 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | point36 | 36 | | | | | | | | | | |
| Morgon St - w. of Webster Ave | point70 | 70 | 127 | 45 | 17 | 45 | 25 | 45 | 0 | 0 | 0 | 0 |
| | point23 | 23 | 127 | 45 | 17 | 45 | 25 | 45 | 0 | 0 | 0 | 0 |
| | point24 | 24 | 127 | 45 | 17 | 45 | 25 | 45 | 0 | 0 | 0 | 0 |
| | point25 | 25 | | | | | | | | | | |
| Ramona Exprsswy - w of Webster Ave | point72 | 72 | 2108 | 55 | 281 | 55 | 422 | 55 | 0 | 0 | 0 | 0 |
| | point11 | 11 | 2108 | 55 | 281 | 55 | 422 | 55 | 0 | 0 | 0 | 0 |
| | point12 | 12 | 2108 | 55 | 281 | 55 | 422 | 55 | 0 | 0 | 0 | 0 |
| | point13 | 13 | 2108 | 55 | 281 | 55 | 422 | 55 | 0 | 0 | 0 | 0 |
| | point14 | 14 | 2108 | 55 | 281 | 55 | 422 | 55 | 0 | 0 | 0 | 0 |
| | point15 | 15 | 2108 | 55 | 281 | 55 | 422 | 55 | 0 | 0 | 0 | 0 |
| | point16 | 16 | | | | | | | | | | |
| Webster Ave - s. of Morgon Ave | point74 | 74 | 313 | 45 | 7 | 45 | 10 | 45 | 0 | 0 | 0 | 0 |
| | point61 | 61 | | | | | | | | | | |
| Ramona Exprsswy - e of Webster Ave | point77 | 77 | 1955 | 55 | 261 | 55 | 391 | 55 | 0 | 0 | 0 | 0 |
| | point17 | 17 | 1955 | 55 | 261 | 55 | 391 | 55 | 0 | 0 | 0 | 0 |
| | point18 | 18 | 1955 | 55 | 261 | 55 | 391 | 55 | 0 | 0 | 0 | 0 |

INPUT: TRAFFIC FOR LAeq1h Volumes

Perris and Morgon Warehouse PN 12761

| | | | | | | | | | | | | |
|--|---------|----|------|----|-----|----|-----|----|---|---|---|---|
| | point19 | 19 | | | | | | | | | | |
| Webster Ave - s. of Ramona Exprsswy | point78 | 78 | 313 | 45 | 7 | 45 | 10 | 45 | 0 | 0 | 0 | 0 |
| | point62 | 62 | | | | | | | | | | |
| Webster Ave - n. of Ramona Exprsswy | point79 | 79 | 411 | 35 | 9 | 35 | 13 | 35 | 0 | 0 | 0 | 0 |
| | point2 | 2 | | | | | | | | | | |
| Morgon St - e. of Webster Ave | point80 | 80 | 127 | 45 | 17 | 45 | 25 | 45 | 0 | 0 | 0 | 0 |
| | point26 | 26 | 127 | 45 | 17 | 45 | 25 | 45 | 0 | 0 | 0 | 0 |
| | point27 | 27 | | | | | | | | | | |
| Morgon St - e. of Indian Ave | point81 | 81 | 127 | 45 | 17 | 45 | 25 | 45 | 0 | 0 | 0 | 0 |
| | point28 | 28 | 127 | 45 | 17 | 45 | 25 | 45 | 0 | 0 | 0 | 0 |
| | point29 | 29 | 127 | 45 | 17 | 45 | 25 | 45 | 0 | 0 | 0 | 0 |
| | point30 | 30 | 127 | 45 | 17 | 45 | 25 | 45 | 0 | 0 | 0 | 0 |
| | point31 | 31 | | | | | | | | | | |
| Ramona Exprsswy - e. of indian Ave | point82 | 82 | 1912 | 55 | 255 | 55 | 382 | 55 | 0 | 0 | 0 | 0 |
| | point20 | 20 | | | | | | | | | | |
| Indian Avenue - n. of Ramona Exprsswy | point83 | 83 | 335 | 45 | 45 | 45 | 67 | 45 | 0 | 0 | 0 | 0 |
| | point54 | 54 | 335 | 45 | 45 | 45 | 67 | 45 | 0 | 0 | 0 | 0 |
| | point55 | 55 | 335 | 45 | 45 | 45 | 67 | 45 | 0 | 0 | 0 | 0 |
| | point56 | 56 | 335 | 45 | 45 | 45 | 67 | 45 | 0 | 0 | 0 | 0 |
| | point57 | 57 | 335 | 45 | 45 | 45 | 67 | 45 | 0 | 0 | 0 | 0 |
| | point58 | 58 | 335 | 45 | 45 | 45 | 67 | 45 | 0 | 0 | 0 | 0 |
| | point59 | 59 | | | | | | | | | | |
| Ramona Exprsswy - e. of Perris Blvd. | point84 | 84 | 1566 | 55 | 209 | 55 | 313 | 55 | 0 | 0 | 0 | 0 |
| | point21 | 21 | | | | | | | | | | |
| N. Perris Blvd - n. of Ramona Exprsswy | point85 | 85 | 1281 | 45 | 171 | 45 | 256 | 45 | 0 | 0 | 0 | 0 |
| | point9 | 9 | | | | | | | | | | |
| N. Perris Blvd - s. of Ramona Exprsswy-2 | point86 | 86 | 1189 | 45 | 159 | 45 | 238 | 45 | 0 | 0 | 0 | 0 |
| | point7 | 7 | 1189 | 45 | 159 | 45 | 238 | 45 | 0 | 0 | 0 | 0 |
| | point8 | 8 | | | | | | | | | | |
| Morgon St - e. of N. Perris Blvd. | point87 | 87 | 50 | 45 | 7 | 45 | 10 | 45 | 0 | 0 | 0 | 0 |
| | point32 | 32 | | | | | | | | | | |
| Sinclair Street - e. of N. Perris Blvd | point88 | 88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | point37 | 37 | | | | | | | | | | |
| Indian Avenue - s. of Ramona Exprsswy | point89 | 89 | 275 | 45 | 37 | 45 | 55 | 45 | 0 | 0 | 0 | 0 |
| | point46 | 46 | 275 | 45 | 37 | 45 | 55 | 45 | 0 | 0 | 0 | 0 |
| | point47 | 47 | 275 | 45 | 37 | 45 | 55 | 45 | 0 | 0 | 0 | 0 |

INPUT: TRAFFIC FOR LAeq1h Volumes**Perris and Morgon Warehouse PN 12761**

| | | | | | | | | | | | | |
|--|---------|----|------|----|-----|----|-----|----|---|---|---|---|
| | point48 | 48 | 275 | 45 | 37 | 45 | 55 | 45 | 0 | 0 | 0 | 0 |
| | point49 | 49 | 275 | 45 | 37 | 45 | 55 | 45 | 0 | 0 | 0 | 0 |
| | point50 | 50 | 275 | 45 | 37 | 45 | 55 | 45 | 0 | 0 | 0 | 0 |
| | point51 | 51 | 275 | 45 | 37 | 45 | 55 | 45 | 0 | 0 | 0 | 0 |
| | point52 | 52 | 275 | 45 | 37 | 45 | 55 | 45 | 0 | 0 | 0 | 0 |
| | point53 | 53 | | | | | | | | | | |
| N. Perris Blvd - n. of Sinclair Street | point91 | 91 | 1188 | 45 | 158 | 45 | 238 | 45 | 0 | 0 | 0 | 0 |
| | point6 | 6 | | | | | | | | | | |

INPUT: RECEIVERS

Perris and Morgon Warehouse PN 12761

| | | | | | | | 14 August 2020 | | | | | |
|-------------------|-----|--------------------------------------|----------------------|---------|----------|---------------------------|---------------------------------|-----------------|------|-----|-----------------------|--|
| Dudek | | | | | | | TNM 2.5 | | | | | |
| MG | | | | | | | | | | | | |
| INPUT: RECEIVERS | | | | | | | | | | | | |
| PROJECT/CONTRACT: | | Perris and Morgon Warehouse PN 12761 | | | | | | | | | | |
| RUN: | | Existing | | | | | | | | | | |
| Receiver | | | | | | | | | | | | |
| Name | No. | #DUs | Coordinates (ground) | | | Height above Ground | Input Sound Levels and Criteria | | | | Active in Calc. | |
| | | | X | Y | Z | | Existing | Impact Criteria | NR | | | |
| | | | ft | ft | ft | ft | dBA | dBA | dB | dB | | |
| ST1 | 1 | 1 | 10,549.9 | 5,881.4 | 1,450.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y | |
| ST2 | 2 | 1 | 10,583.1 | 6,884.5 | 1,450.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y | |
| ST3 | 3 | 1 | 8,818.2 | 7,983.2 | 1,450.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y | |
| ST4 | 4 | 1 | 4,874.3 | 7,510.6 | 1,450.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y | |
| ST5 | 5 | 1 | 4,710.0 | 4,688.2 | 1,450.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y | |
| ST6 | 6 | 1 | 10,224.8 | 1,046.1 | 1,450.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y | |

INPUT: BARRIERS

Perris and Morgon Warehouse PN 12761

| | | | | | | | | | | 14 August 2020 | | | | | | | | | |
|--|------|--------|-------|------------------|------------------|-----------|----------|--------------------|---------|----------------|----------------------|---------|----------|-----------------|---------|----|----|-----------|----|
| Dudek | | | | | | | | | | TNN 2.5 | | | | | | | | | |
| MG | | | | | | | | | | | | | | | | | | | |
| INPUT: BARRIERS | | | | | | | | | | | | | | | | | | | |
| PROJECT/CONTRACT: Perris and Morgon Warehouse PN 12761 | | | | | | | | | | | | | | | | | | | |
| RUN: Existing | | | | | | | | | | | | | | | | | | | |
| Barrier | | | | | | | | | | Points | | | | | | | | | |
| Name | Type | Height | | If Wall | If Berm | Top Width | Run:Rise | Add'tnl | Name | No. | Coordinates (bottom) | | | Height at Point | Segment | | | Important | |
| | | Min | Max | \$ per Unit Area | \$ per Unit Vol. | | ft:ft | \$ per Unit Length | | | X | Y | Z | | ft | ft | ft | | ft |
| Barrier1 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point1 | 1 | 7,881.2 | 4,778.2 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point3 | 3 | 7,874.2 | 5,319.9 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point4 | 4 | 8,020.1 | 5,472.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point5 | 5 | 9,915.7 | 5,431.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point6 | 6 | 9,929.6 | 4,729.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point7 | 7 | 7,936.7 | 4,750.5 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point63 | 63 | 4,842.5 | 7,475.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point60 | 60 | 4,837.3 | 7,252.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point61 | 61 | 5,205.3 | 7,251.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point2 | 2 | 5,668.9 | 7,242.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point65 | 65 | 3,788.5 | 4,804.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point57 | 57 | 4,370.0 | 4,809.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point58 | 58 | 4,367.2 | 5,008.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point67 | 67 | 5,560.5 | 4,958.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point54 | 54 | 5,880.2 | 4,958.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point55 | 55 | 5,880.2 | 5,388.5 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point69 | 69 | 5,351.1 | 4,363.7 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point45 | 45 | 7,081.7 | 4,314.1 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point46 | 46 | 7,087.2 | 3,459.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point47 | 47 | 5,400.7 | 3,514.9 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| Barrier1-2-2-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point71 | 71 | 10,333.6 | 1,050.9 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point49 | 49 | 10,339.1 | 1,558.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point50 | 50 | 10,543.0 | 1,558.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point51 | 51 | 10,515.5 | 1,806.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point52 | 52 | 11,143.8 | 1,795.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point73 | 73 | 11,113.5 | 4,841.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point35 | 35 | 10,529.3 | 4,836.1 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point36 | 36 | 10,515.5 | 4,797.5 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point37 | 37 | 10,377.7 | 4,797.5 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point38 | 38 | 10,377.7 | 5,591.2 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point39 | 39 | 10,529.3 | 5,585.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point40 | 40 | 10,523.7 | 5,544.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point41 | 41 | 11,124.5 | 5,547.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point75 | 75 | 9,943.5 | 5,799.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point13 | 13 | 8,832.5 | 5,805.9 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |

INPUT: BARRIERS

Perris and Morgon Warehouse PN 12761

| | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|------|-------|------|--|--|--|------|---------|----|----------|---------|----------|-------|------|---|---|--|--|
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point76 | 76 | 8,776.9 | 5,792.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point9 | 9 | 8,783.9 | 6,132.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point10 | 10 | 8,957.5 | 6,354.5 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point11 | 11 | 9,922.7 | 6,340.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point12 | 12 | 9,943.5 | 5,799.0 | 1,450.00 | 20.00 | | | | | |
| Barrier1-2-2-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point78 | 78 | 6,519.9 | 6,779.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point30 | 30 | 7,225.3 | 6,773.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point31 | 31 | 7,225.3 | 4,933.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point32 | 32 | 6,503.4 | 4,938.5 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point33 | 33 | 6,486.8 | 6,746.2 | 1,450.00 | 20.00 | | | | | |
| Barrier1-2-2-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point80 | 80 | 7,693.7 | 4,172.2 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point15 | 15 | 8,790.5 | 4,166.7 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point16 | 16 | 8,796.0 | 3,483.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point17 | 17 | 7,715.8 | 3,461.2 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point18 | 18 | 7,715.8 | 4,122.6 | 1,450.00 | 20.00 | | | | | |
| Barrier1-2-2-2-2-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point82 | 82 | 9,099.1 | 4,067.5 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point20 | 20 | 9,540.0 | 4,073.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point21 | 21 | 9,545.5 | 3,648.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point22 | 22 | 9,071.6 | 3,659.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point23 | 23 | 9,071.6 | 4,050.9 | 1,450.00 | 20.00 | | | | | |
| Barrier1-2-2-2-2-2-2-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point84 | 84 | 10,358.4 | 3,742.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point25 | 25 | 11,110.8 | 3,724.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point26 | 26 | 11,110.8 | 3,226.1 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point27 | 27 | 10,410.9 | 3,269.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point28 | 28 | 10,428.4 | 3,681.0 | 1,450.00 | 20.00 | | | | | |
| Barrier25 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point85 | 85 | 11,062.9 | 6,921.7 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point86 | 86 | 10,400.3 | 6,921.7 | 1,450.00 | 20.00 | | | | | |
| Barrier26 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point87 | 87 | 10,407.1 | 6,826.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point88 | 88 | 10,407.1 | 6,446.9 | 1,450.00 | 20.00 | | | | | |

RESULTS: SOUND LEVELS

Perris and Morgon Warehouse PN 12761

| | | | | | | | | | | | | | |
|------------------------------|--|------------|--------------|------------------------|-------------------|---------------|-------------------------------|------------------|---------------|--|-------------------|-------------|-------------------|
| Dudek | | | | | | | | | | 14 August 2020 | | | |
| MG | | | | | | | | | | TNM 2.5 | | | |
| | | | | | | | | | | Calculated with TNM 2.5 | | | |
| RESULTS: SOUND LEVELS | | | | | | | | | | | | | |
| PROJECT/CONTRACT: | | | | | | | | | | Perris and Morgon Warehouse PN 12761 | | | |
| RUN: | | | | | | | | | | Existing | | | |
| BARRIER DESIGN: | | | | | | | | | | INPUT HEIGHTS | | | |
| | | | | | | | | | | Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA. | | | |
| ATMOSPHERICS: | | | | | | | | | | 68 deg F, 50% RH | | | |
| Receiver | | | | | | | | | | | | | |
| Name | | No. | #DUs | Existing | No Barrier | | Increase over existing | | Type | With Barrier | | | |
| | | | | LAeq1h | LAeq1h | | | | | Noise Reduction | | | |
| | | | | | Calculated | Crit'n | Calculated | Crit'n | Impact | LAeq1h | Calculated | Goal | Calculated |
| | | | | | | | | Sub'l Inc | | | | | minus |
| | | | | | | | | | | | | | Goal |
| | | | | dB | dB | dB | dB | dB | | dB | dB | dB | dB |
| ST1 | | 1 | 1 | 0.0 | 61.2 | 66 | 61.2 | 10 | ---- | 61.2 | 0.0 | 8 | -8.0 |
| ST2 | | 2 | 1 | 0.0 | 58.8 | 66 | 58.8 | 10 | ---- | 58.8 | 0.0 | 8 | -8.0 |
| ST3 | | 3 | 1 | 0.0 | 66.4 | 66 | 66.4 | 10 | Snd Lvl | 66.4 | 0.0 | 8 | -8.0 |
| ST4 | | 4 | 1 | 0.0 | 62.9 | 66 | 62.9 | 10 | ---- | 62.9 | 0.0 | 8 | -8.0 |
| ST5 | | 5 | 1 | 0.0 | 66.1 | 66 | 66.1 | 10 | Snd Lvl | 66.1 | 0.0 | 8 | -8.0 |
| ST6 | | 6 | 1 | 0.0 | 73.3 | 66 | 73.3 | 10 | Snd Lvl | 73.3 | 0.0 | 8 | -8.0 |
| Dwelling Units | | | # DUs | Noise Reduction | | | | | | | | | |
| | | | | Min | Avg | Max | | | | | | | |
| | | | | dB | dB | dB | | | | | | | |
| All Selected | | | 6 | 0.0 | 0.0 | 0.0 | | | | | | | |
| All Impacted | | | 3 | 0.0 | 0.0 | 0.0 | | | | | | | |
| All that meet NR Goal | | | 0 | 0.0 | 0.0 | 0.0 | | | | | | | |

INPUT: ROADWAYS

Perris and Morgon Warehouse PN 12761

| | | | | | | | | | | | |
|---|-------|---------|-----|--------------------------------------|---------|----------|---|------------|----------|---------|---------|
| | | | | 17 September 2020 | | | | | | | |
| Dudek | | | | TNM 2.5 | | | | | | | |
| MG | | | | | | | | | | | |
| INPUT: ROADWAYS | | | | | | | Average pavement type shall be used unless | | | | |
| PROJECT/CONTRACT: | | | | Perris and Morgon Warehouse PN 12761 | | | a State highway agency substantiates the use | | | | |
| RUN: | | | | Existing with Project 092020 | | | of a different type with the approval of FHWA | | | | |
| Roadway | | Points | | | | | | | | | |
| Name | Width | Name | No. | Coordinates (pavement) | | | Flow Control | | | Segment | |
| | | | | X | Y | Z | Control | Speed | Percent | Pvmt | On |
| | | | | | | | Device | Constraint | Vehicles | Type | Struct? |
| | | | | | | | | | Affected | | |
| | ft | | | ft | ft | ft | | mph | % | | |
| N. Perris Blvd - s. of Sinclair Street | 80.0 | point64 | 64 | 10,176.7 | 344.4 | 1,450.00 | | | | Average | |
| | | point5 | 5 | 10,168.4 | 1,887.5 | 1,450.00 | | | | Average | |
| | | point90 | 90 | 10,164.2 | 3,193.6 | 1,450.00 | | | | | |
| Sinclair Street - w. of N. Perris Blvd. | 80.0 | point68 | 68 | 9,602.5 | 3,261.6 | 1,450.00 | | | | Average | |
| | | point34 | 34 | 9,817.7 | 3,240.8 | 1,450.00 | | | | Average | |
| | | point35 | 35 | 10,033.0 | 3,181.7 | 1,450.00 | | | | Average | |
| | | point36 | 36 | 10,154.5 | 3,195.6 | 1,450.00 | | | | | |
| Morgon St - w. of Webster Ave | 80.0 | point70 | 70 | 3,511.2 | 4,630.2 | 1,450.00 | | | | Average | |
| | | point23 | 23 | 3,796.7 | 4,643.4 | 1,450.00 | | | | Average | |
| | | point24 | 24 | 4,498.7 | 4,660.8 | 1,450.00 | | | | Average | |
| | | point25 | 25 | 4,774.3 | 4,639.0 | 1,450.00 | | | | | |
| Ramona Exprsswy - w of Webster Ave | 80.0 | point72 | 72 | 2,296.6 | 6,759.1 | 1,450.00 | | | | Average | |
| | | point11 | 11 | 2,921.5 | 6,974.3 | 1,450.00 | | | | Average | |
| | | point12 | 12 | 3,209.6 | 7,073.3 | 1,450.00 | | | | Average | |
| | | point13 | 13 | 3,371.1 | 7,118.4 | 1,450.00 | | | | Average | |
| | | point14 | 14 | 3,428.4 | 7,137.5 | 1,450.00 | | | | Average | |
| | | point15 | 15 | 3,466.5 | 7,134.0 | 1,450.00 | | | | Average | |
| | | point16 | 16 | 4,787.6 | 7,142.7 | 1,450.00 | | | | | |
| Webster Ave - s. of Morgon Ave | 80.0 | point74 | 74 | 4,791.2 | 2,066.1 | 1,450.00 | | | | Average | |
| | | point61 | 61 | 4,782.4 | 4,646.9 | 1,450.00 | | | | | |
| Ramona Exprsswy - e of Webster Ave | 80.0 | point77 | 77 | 4,800.6 | 7,142.7 | 1,450.00 | | | | Average | |
| | | point17 | 17 | 6,159.8 | 7,134.4 | 1,450.00 | | | | Average | |
| | | point18 | 18 | 7,537.6 | 7,131.7 | 1,450.00 | | | | Average | |
| | | point19 | 19 | 8,844.7 | 7,121.2 | 1,450.00 | | | | | |
| Webster Ave - s. of Ramona Exprsswy | 80.0 | point78 | 78 | 4,782.4 | 4,646.9 | 1,450.00 | | | | Average | |

INPUT: ROADWAYS

Perris and Morgon Warehouse PN 12761

| | | | | | | | | | | | |
|--|------|---------|----|----------|---------|----------|--|--|--|--|---------|
| | | point62 | 62 | 4,793.5 | 7,138.0 | 1,450.00 | | | | | |
| Webster Ave - n. of Ramona Exprsswy | 80.0 | point79 | 79 | 4,793.5 | 7,138.0 | 1,450.00 | | | | | Average |
| | | point2 | 2 | 4,793.5 | 8,394.9 | 1,450.00 | | | | | |
| Morgon St - e. of Webster Ave | 80.0 | point80 | 80 | 4,800.3 | 4,639.0 | 1,450.00 | | | | | Average |
| | | point26 | 26 | 6,176.2 | 4,628.0 | 1,450.00 | | | | | Average |
| | | point27 | 27 | 7,509.9 | 4,578.5 | 1,450.00 | | | | | |
| Morgon St - e. of Indian Ave | 80.0 | point81 | 81 | 7,559.9 | 4,578.5 | 1,450.00 | | | | | Average |
| | | point28 | 28 | 7,829.6 | 4,561.9 | 1,450.00 | | | | | Average |
| | | point29 | 29 | 8,028.0 | 4,506.8 | 1,450.00 | | | | | Average |
| | | point30 | 30 | 8,860.2 | 4,501.3 | 1,450.00 | | | | | Average |
| | | point31 | 31 | 10,147.3 | 4,501.3 | 1,450.00 | | | | | |
| Ramona Exprsswy - e. of indian Ave | 80.0 | point82 | 82 | 8,874.7 | 7,121.2 | 1,450.00 | | | | | Average |
| | | point20 | 20 | 10,164.0 | 7,117.8 | 1,450.00 | | | | | |
| Indian Avenue - n. of Ramona Exprsswy | 80.0 | point83 | 83 | 8,851.3 | 7,146.2 | 1,450.00 | | | | | Average |
| | | point54 | 54 | 8,823.5 | 7,687.8 | 1,450.00 | | | | | Average |
| | | point55 | 55 | 8,795.7 | 7,847.5 | 1,450.00 | | | | | Average |
| | | point56 | 56 | 8,718.6 | 8,040.4 | 1,450.00 | | | | | Average |
| | | point57 | 57 | 8,622.2 | 8,189.2 | 1,450.00 | | | | | Average |
| | | point58 | 58 | 8,525.9 | 8,333.5 | 1,450.00 | | | | | Average |
| | | point59 | 59 | 8,490.9 | 8,412.3 | 1,450.00 | | | | | |
| Ramona Exprsswy - e. of Perris Blvd. | 80.0 | point84 | 84 | 10,194.0 | 7,117.8 | 1,450.00 | | | | | Average |
| | | point21 | 21 | 11,448.5 | 7,124.7 | 1,450.00 | | | | | |
| N. Perris Blvd - n. of Ramona Exprsswy | 80.0 | point85 | 85 | 10,171.1 | 7,127.1 | 1,450.00 | | | | | Average |
| | | point9 | 9 | 10,192.0 | 8,265.9 | 1,450.00 | | | | | |
| N. Perris Blvd - s. of Ramona Exprsswy-2 | 80.0 | point86 | 86 | 10,160.1 | 4,499.7 | 1,450.00 | | | | | Average |
| | | point7 | 7 | 10,169.8 | 5,836.2 | 1,450.00 | | | | | Average |
| | | point8 | 8 | 10,171.1 | 7,127.1 | 1,450.00 | | | | | |
| Morgon St - e. of N. Perris Blvd. | 80.0 | point87 | 87 | 10,177.3 | 4,501.3 | 1,450.00 | | | | | Average |
| | | point32 | 32 | 11,340.9 | 4,492.6 | 1,450.00 | | | | | |
| Sinclair Street - e. of N. Perris Blvd | 80.0 | point88 | 88 | 10,184.5 | 3,195.6 | 1,450.00 | | | | | Average |
| | | point37 | 37 | 11,328.0 | 3,181.7 | 1,450.00 | | | | | |
| Indian Avenue - s. of Ramona Exprsswy | 80.0 | point89 | 89 | 7,552.4 | 4,568.8 | 1,450.00 | | | | | Average |
| | | point46 | 46 | 7,565.5 | 4,896.9 | 1,450.00 | | | | | Average |
| | | point47 | 47 | 7,679.3 | 5,233.7 | 1,450.00 | | | | | Average |
| | | point48 | 48 | 7,937.4 | 5,583.6 | 1,450.00 | | | | | Average |
| | | point49 | 49 | 8,374.8 | 5,863.6 | 1,450.00 | | | | | Average |
| | | point50 | 50 | 8,637.3 | 6,134.8 | 1,450.00 | | | | | Average |
| | | point51 | 51 | 8,816.6 | 6,493.4 | 1,450.00 | | | | | Average |
| | | point52 | 52 | 8,851.3 | 6,903.2 | 1,450.00 | | | | | Average |

INPUT: ROADWAYS**Perris and Morgon Warehouse PN 12761**

| | | | | | | | | | | | |
|--|------|---------|----|----------|---------|----------|--|--|--|---------|--|
| | | point53 | 53 | 8,851.3 | 7,146.2 | 1,450.00 | | | | | |
| N. Perris Blvd - n. of Sinclair Street | 80.0 | point91 | 91 | 10,164.2 | 3,193.6 | 1,450.00 | | | | Average | |
| | | point6 | 6 | 10,160.1 | 4,499.7 | 1,450.00 | | | | | |

INPUT: TRAFFIC FOR LAeq1h Volumes

Perris and Morgon Warehouse PN 12761

| Dudek | | 17 September 2020 | | | | | | | | | | |
|---|---------|--------------------------------------|---------|-----|---------|-----|---------|-----|--------|-----|-------------|-----|
| MG | | TNM 2.5 | | | | | | | | | | |
| INPUT: TRAFFIC FOR LAeq1h Volumes | | | | | | | | | | | | |
| PROJECT/CONTRACT: | | Perris and Morgon Warehouse PN 12761 | | | | | | | | | | |
| RUN: | | Existing with Project 092020 | | | | | | | | | | |
| Roadway | Points | | | | | | | | | | | |
| Name | Name | No. | Segment | | MTrucks | | HTrucks | | Buses | | Motorcycles | |
| | | | Autos | | V | S | V | S | V | S | V | S |
| | | | veh/hr | mph | veh/hr | mph | veh/hr | mph | veh/hr | mph | veh/hr | mph |
| N. Perris Blvd - s. of Sinclair Street | point64 | 64 | 1197 | 45 | 158 | 45 | 238 | 45 | 0 | 0 | 0 | 0 |
| | point5 | 5 | 1197 | 45 | 158 | 45 | 238 | 45 | 0 | 0 | 0 | 0 |
| | point90 | 90 | | | | | | | | | | |
| Sinclair Street - w. of N. Perris Blvd. | point68 | 68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | point34 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | point35 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | point36 | 36 | | | | | | | | | | |
| Morgon St - w. of Webster Ave | point70 | 70 | 138 | 45 | 18 | 45 | 27 | 45 | 0 | 0 | 0 | 0 |
| | point23 | 23 | 138 | 45 | 18 | 45 | 27 | 45 | 0 | 0 | 0 | 0 |
| | point24 | 24 | 138 | 45 | 18 | 45 | 27 | 45 | 0 | 0 | 0 | 0 |
| | point25 | 25 | | | | | | | | | | |
| Ramona Exprsswy - w of Webster Ave | point72 | 72 | 2137 | 55 | 286 | 55 | 430 | 55 | 0 | 0 | 0 | 0 |
| | point11 | 11 | 2137 | 55 | 286 | 55 | 430 | 55 | 0 | 0 | 0 | 0 |
| | point12 | 12 | 2137 | 55 | 286 | 55 | 430 | 55 | 0 | 0 | 0 | 0 |
| | point13 | 13 | 2137 | 55 | 286 | 55 | 430 | 55 | 0 | 0 | 0 | 0 |
| | point14 | 14 | 2137 | 55 | 286 | 55 | 430 | 55 | 0 | 0 | 0 | 0 |
| | point15 | 15 | 2137 | 55 | 286 | 55 | 430 | 55 | 0 | 0 | 0 | 0 |
| | point16 | 16 | | | | | | | | | | |
| Webster Ave - s. of Morgon Ave | point74 | 74 | 325 | 45 | 10 | 45 | 15 | 45 | 0 | 0 | 0 | 0 |
| | point61 | 61 | | | | | | | | | | |
| Ramona Exprsswy - e of Webster Ave | point77 | 77 | 1972 | 55 | 263 | 55 | 394 | 55 | 0 | 0 | 0 | 0 |
| | point17 | 17 | 1972 | 55 | 263 | 55 | 394 | 55 | 0 | 0 | 0 | 0 |
| | point18 | 18 | 1972 | 55 | 263 | 55 | 394 | 55 | 0 | 0 | 0 | 0 |

INPUT: TRAFFIC FOR LAeq1h Volumes

Perris and Morgon Warehouse PN 12761

| | | | | | | | | | | | | |
|--|---------|----|------|----|-----|----|-----|----|---|---|---|---|
| | point19 | 19 | | | | | | | | | | |
| Webster Ave - s. of Ramona Exprsswy | point78 | 78 | 325 | 45 | 10 | 45 | 15 | 45 | 0 | 0 | 0 | 0 |
| | point62 | 62 | | | | | | | | | | |
| Webster Ave - n. of Ramona Exprsswy | point79 | 79 | 411 | 35 | 9 | 35 | 13 | 35 | 0 | 0 | 0 | 0 |
| | point2 | 2 | | | | | | | | | | |
| Morgon St - e. of Webster Ave | point80 | 80 | 135 | 45 | 18 | 45 | 27 | 45 | 0 | 0 | 0 | 0 |
| | point26 | 26 | 135 | 45 | 18 | 45 | 27 | 45 | 0 | 0 | 0 | 0 |
| | point27 | 27 | | | | | | | | | | |
| Morgon St - e. of Indian Ave | point81 | 81 | 135 | 45 | 18 | 45 | 27 | 45 | 0 | 0 | 0 | 0 |
| | point28 | 28 | 135 | 45 | 18 | 45 | 27 | 45 | 0 | 0 | 0 | 0 |
| | point29 | 29 | 135 | 45 | 18 | 45 | 27 | 45 | 0 | 0 | 0 | 0 |
| | point30 | 30 | 135 | 45 | 18 | 45 | 27 | 45 | 0 | 0 | 0 | 0 |
| | point31 | 31 | | | | | | | | | | |
| Ramona Exprsswy - e. of indian Ave | point82 | 82 | 1921 | 55 | 255 | 55 | 383 | 55 | 0 | 0 | 0 | 0 |
| | point20 | 20 | | | | | | | | | | |
| Indian Avenue - n. of Ramona Exprsswy | point83 | 83 | 335 | 45 | 45 | 45 | 68 | 45 | 0 | 0 | 0 | 0 |
| | point54 | 54 | 335 | 45 | 45 | 45 | 68 | 45 | 0 | 0 | 0 | 0 |
| | point55 | 55 | 335 | 45 | 45 | 45 | 68 | 45 | 0 | 0 | 0 | 0 |
| | point56 | 56 | 335 | 45 | 45 | 45 | 68 | 45 | 0 | 0 | 0 | 0 |
| | point57 | 57 | 335 | 45 | 45 | 45 | 68 | 45 | 0 | 0 | 0 | 0 |
| | point58 | 58 | 335 | 45 | 45 | 45 | 68 | 45 | 0 | 0 | 0 | 0 |
| | point59 | 59 | | | | | | | | | | |
| Ramona Exprsswy - e. of Perris Blvd. | point84 | 84 | 1567 | 55 | 209 | 55 | 313 | 55 | 0 | 0 | 0 | 0 |
| | point21 | 21 | | | | | | | | | | |
| N. Perris Blvd - n. of Ramona Exprsswy | point85 | 85 | 1285 | 45 | 171 | 45 | 257 | 45 | 0 | 0 | 0 | 0 |
| | point9 | 9 | | | | | | | | | | |
| N. Perris Blvd - s. of Ramona Exprsswy-2 | point86 | 86 | 1204 | 45 | 159 | 45 | 239 | 45 | 0 | 0 | 0 | 0 |
| | point7 | 7 | 1204 | 45 | 159 | 45 | 239 | 45 | 0 | 0 | 0 | 0 |
| | point8 | 8 | | | | | | | | | | |
| Morgon St - e. of N. Perris Blvd. | point87 | 87 | 50 | 45 | 7 | 45 | 10 | 45 | 0 | 0 | 0 | 0 |
| | point32 | 32 | | | | | | | | | | |
| Sinclair Street - e. of N. Perris Blvd | point88 | 88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | point37 | 37 | | | | | | | | | | |
| Indian Avenue - s. of Ramona Exprsswy | point89 | 89 | 283 | 45 | 38 | 45 | 58 | 45 | 0 | 0 | 0 | 0 |
| | point46 | 46 | 283 | 45 | 38 | 45 | 58 | 45 | 0 | 0 | 0 | 0 |
| | point47 | 47 | 283 | 45 | 38 | 45 | 58 | 45 | 0 | 0 | 0 | 0 |

INPUT: TRAFFIC FOR LAeq1h Volumes**Perris and Morgon Warehouse PN 12761**

| | | | | | | | | | | | | |
|--|---------|----|------|----|-----|----|-----|----|---|---|---|---|
| | point48 | 48 | 283 | 45 | 38 | 45 | 58 | 45 | 0 | 0 | 0 | 0 |
| | point49 | 49 | 283 | 45 | 38 | 45 | 58 | 45 | 0 | 0 | 0 | 0 |
| | point50 | 50 | 283 | 45 | 38 | 45 | 58 | 45 | 0 | 0 | 0 | 0 |
| | point51 | 51 | 283 | 45 | 38 | 45 | 58 | 45 | 0 | 0 | 0 | 0 |
| | point52 | 52 | 283 | 45 | 38 | 45 | 58 | 45 | 0 | 0 | 0 | 0 |
| | point53 | 53 | | | | | | | | | | |
| N. Perris Blvd - n. of Sinclair Street | point91 | 91 | 1197 | 45 | 158 | 45 | 238 | 45 | 0 | 0 | 0 | 0 |
| | point6 | 6 | | | | | | | | | | |

INPUT: RECEIVERS

Perris and Morgon Warehouse PN 12761

| | | | | | | | | | | | | |
|--------------------------|------------|---|-----------------------------|----------|----------|---------------|--|------------------------|--------------|-------------|---------------|--|
| Dudek | | | | | | | | | | | | |
| MG | | | | | | | | | | | | |
| | | | | | | | 17 September 2020 | | | | | |
| | | | | | | | TNM 2.5 | | | | | |
| INPUT: RECEIVERS | | | | | | | | | | | | |
| PROJECT/CONTRACT: | | Perris and Morgon Warehouse PN 12761 | | | | | | | | | | |
| RUN: | | Existing with Project 092020 | | | | | | | | | | |
| Receiver | | | | | | | | | | | | |
| Name | No. | #DUs | Coordinates (ground) | | | Height | Input Sound Levels and Criteria | | | | Active | |
| | | | X | Y | Z | above | Existing | Impact Criteria | | NR | in | |
| | | | | | | Ground | LAeq1h | LAeq1h | Sub'l | Goal | Calc. | |
| | | | ft | ft | ft | ft | dBA | dBA | dB | dB | | |
| ST1 | 1 | 1 | 10,549.9 | 5,881.4 | 1,450.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y | |
| ST2 | 2 | 1 | 10,583.1 | 6,884.5 | 1,450.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y | |
| ST3 | 3 | 1 | 8,818.2 | 7,983.2 | 1,450.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y | |
| ST4 | 4 | 1 | 4,874.3 | 7,510.6 | 1,450.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y | |
| ST5 | 5 | 1 | 4,710.0 | 4,688.2 | 1,450.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y | |
| ST6 | 6 | 1 | 10,224.8 | 1,046.1 | 1,450.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y | |

INPUT: BARRIERS

Perris and Morgon Warehouse PN 12761

| | |
|-------|-------------------|
| Dudek | 17 September 2020 |
| MG | TNM 2.5 |

INPUT: BARRIERS

PROJECT/CONTRACT: Perris and Morgon Warehouse PN 12761
 RUN: Existing with Project 092020

| Barrier | | | | | | | | | Points | | | | | | | | | | | |
|------------------|------|--------|-------|------------------|------------------|-----------|-------|--------------------|---------|-----|----------------------|---------|----------|----------|---------|----|----------|----|-----------|---------|
| Name | Type | Height | | If Wall | If Berm | Run:Rise | | Add'tnl | Name | No. | Coordinates (bottom) | | | Height | Segment | | | On | Important | |
| | | Min | Max | \$ per Unit Area | \$ per Unit Vol. | Top Width | ft:ft | \$ per Unit Length | | | X | Y | Z | at Point | Seg | Ht | Perturbs | | | Struct? |
| | | ft | ft | \$/sq ft | \$/cu yd | ft | ft:ft | \$/ft | | | ft | ft | ft | ft | ft | ft | | | | |
| Barrier1 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point1 | 1 | 7,881.2 | 4,778.2 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point3 | 3 | 7,874.2 | 5,319.9 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point4 | 4 | 8,020.1 | 5,472.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point5 | 5 | 9,915.7 | 5,431.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point6 | 6 | 9,929.6 | 4,729.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point7 | 7 | 7,936.7 | 4,750.5 | 1,450.00 | 20.00 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point63 | 63 | 4,842.5 | 7,475.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point60 | 60 | 4,837.3 | 7,252.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point61 | 61 | 5,205.3 | 7,251.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point2 | 2 | 5,668.9 | 7,242.3 | 1,450.00 | 20.00 | | | | | | |
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point65 | 65 | 3,788.5 | 4,804.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point57 | 57 | 4,370.0 | 4,809.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point58 | 58 | 4,367.2 | 5,008.3 | 1,450.00 | 20.00 | | | | | | |
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point67 | 67 | 5,560.5 | 4,958.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point54 | 54 | 5,880.2 | 4,958.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point55 | 55 | 5,880.2 | 5,388.5 | 1,450.00 | 20.00 | | | | | | |
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point69 | 69 | 5,351.1 | 4,363.7 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point45 | 45 | 7,081.7 | 4,314.1 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point46 | 46 | 7,087.2 | 3,459.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point47 | 47 | 5,400.7 | 3,514.9 | 1,450.00 | 20.00 | | | | | | |
| Barrier1-2-2-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point71 | 71 | 10,333.6 | 1,050.9 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point49 | 49 | 10,339.1 | 1,558.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point50 | 50 | 10,543.0 | 1,558.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point51 | 51 | 10,515.5 | 1,806.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point52 | 52 | 11,143.8 | 1,795.0 | 1,450.00 | 20.00 | | | | | | |
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point73 | 73 | 11,113.5 | 4,841.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point35 | 35 | 10,529.3 | 4,836.1 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point36 | 36 | 10,515.5 | 4,797.5 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point37 | 37 | 10,377.7 | 4,797.5 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point38 | 38 | 10,377.7 | 5,591.2 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point39 | 39 | 10,529.3 | 5,585.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point40 | 40 | 10,523.7 | 5,544.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point41 | 41 | 11,124.5 | 5,547.0 | 1,450.00 | 20.00 | | | | | | |
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point75 | 75 | 9,943.5 | 5,799.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point13 | 13 | 8,832.5 | 5,805.9 | 1,450.00 | 20.00 | | | | | | |

INPUT: BARRIERS

Perris and Morgon Warehouse PN 12761

| | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|------|-------|------|--|--|--|------|---------|----|----------|---------|----------|-------|------|---|---|--|--|
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point76 | 76 | 8,776.9 | 5,792.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point9 | 9 | 8,783.9 | 6,132.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point10 | 10 | 8,957.5 | 6,354.5 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point11 | 11 | 9,922.7 | 6,340.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point12 | 12 | 9,943.5 | 5,799.0 | 1,450.00 | 20.00 | | | | | |
| Barrier1-2-2-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point78 | 78 | 6,519.9 | 6,779.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point30 | 30 | 7,225.3 | 6,773.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point31 | 31 | 7,225.3 | 4,933.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point32 | 32 | 6,503.4 | 4,938.5 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point33 | 33 | 6,486.8 | 6,746.2 | 1,450.00 | 20.00 | | | | | |
| Barrier1-2-2-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point80 | 80 | 7,693.7 | 4,172.2 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point15 | 15 | 8,790.5 | 4,166.7 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point16 | 16 | 8,796.0 | 3,483.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point17 | 17 | 7,715.8 | 3,461.2 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point18 | 18 | 7,715.8 | 4,122.6 | 1,450.00 | 20.00 | | | | | |
| Barrier1-2-2-2-2-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point82 | 82 | 9,099.1 | 4,067.5 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point20 | 20 | 9,540.0 | 4,073.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point21 | 21 | 9,545.5 | 3,648.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point22 | 22 | 9,071.6 | 3,659.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point23 | 23 | 9,071.6 | 4,050.9 | 1,450.00 | 20.00 | | | | | |
| Barrier1-2-2-2-2-2-2-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point84 | 84 | 10,358.4 | 3,742.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point25 | 25 | 11,110.8 | 3,724.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point26 | 26 | 11,110.8 | 3,226.1 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point27 | 27 | 10,410.9 | 3,269.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point28 | 28 | 10,428.4 | 3,681.0 | 1,450.00 | 20.00 | | | | | |
| Barrier25 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point85 | 85 | 11,062.9 | 6,921.7 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point86 | 86 | 10,400.3 | 6,921.7 | 1,450.00 | 20.00 | | | | | |
| Barrier26 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point87 | 87 | 10,407.1 | 6,826.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point88 | 88 | 10,407.1 | 6,446.9 | 1,450.00 | 20.00 | | | | | |

RESULTS: SOUND LEVELS

Perris and Morgon Warehouse PN 12761

| | | | | | | | | | | | | | | |
|------------------------------|--|------------|--------------------------------------|------------------------|-------------------|---------------|-------------------------------|--|---------------|-------------------|------------------------|-------------|-------------------------|--|
| Dudek | | | | | | | | | | | | | 17 September 2020 | |
| MG | | | | | | | | | | | | | TNM 2.5 | |
| | | | | | | | | | | | | | Calculated with TNM 2.5 | |
| RESULTS: SOUND LEVELS | | | | | | | | | | | | | | |
| PROJECT/CONTRACT: | | | Perris and Morgon Warehouse PN 12761 | | | | | | | | | | | |
| RUN: | | | Existing with Project 092020 | | | | | | | | | | | |
| BARRIER DESIGN: | | | INPUT HEIGHTS | | | | | Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA. | | | | | | |
| ATMOSPHERICS: | | | 68 deg F, 50% RH | | | | | | | | | | | |
| Receiver | | | | | | | | | | | | | | |
| Name | | No. | #DUs | Existing | No Barrier | | | With Barrier | | | | | | |
| | | | | LAeq1h | LAeq1h | | Increase over existing | | Type | Calculated | Noise Reduction | | | |
| | | | | | Calculated | Crit'n | Calculated | Crit'n | Impact | LAeq1h | Calculated | Goal | Calculated | |
| | | | | | | | | Sub'l Inc | | | | | minus | |
| | | | | | | | | | | | | | Goal | |
| | | | | dB | dB | dB | dB | dB | | dB | dB | dB | dB | |
| ST1 | | 1 | 1 | 0.0 | 61.2 | 66 | 61.2 | 10 | ---- | 61.2 | 0.0 | 8 | -8.0 | |
| ST2 | | 2 | 1 | 0.0 | 58.8 | 66 | 58.8 | 10 | ---- | 58.8 | 0.0 | 8 | -8.0 | |
| ST3 | | 3 | 1 | 0.0 | 66.4 | 66 | 66.4 | 10 | Snd Lvl | 66.4 | 0.0 | 8 | -8.0 | |
| ST4 | | 4 | 1 | 0.0 | 62.9 | 66 | 62.9 | 10 | ---- | 62.9 | 0.0 | 8 | -8.0 | |
| ST5 | | 5 | 1 | 0.0 | 66.6 | 66 | 66.6 | 10 | Snd Lvl | 66.6 | 0.0 | 8 | -8.0 | |
| ST6 | | 6 | 1 | 0.0 | 73.3 | 66 | 73.3 | 10 | Snd Lvl | 73.3 | 0.0 | 8 | -8.0 | |
| Dwelling Units | | | # DUs | Noise Reduction | | | | | | | | | | |
| | | | | Min | Avg | Max | | | | | | | | |
| | | | | dB | dB | dB | | | | | | | | |
| All Selected | | | 6 | 0.0 | 0.0 | 0.0 | | | | | | | | |
| All Impacted | | | 3 | 0.0 | 0.0 | 0.0 | | | | | | | | |
| All that meet NR Goal | | | 0 | 0.0 | 0.0 | 0.0 | | | | | | | | |

INPUT: ROADWAYS

Perris and Morgon Warehouse PN 12761

| Dudek MG | | | | 14 August 2020 TNM 2.5 | | | | | | | |
|---|-------|-------------|-----|--|---------|----------|---|------------------|---------------------------|-----------|------------|
| INPUT: ROADWAYS | | | | PROJECT/CONTRACT: Perris and Morgon Warehouse PN 12761 | | | Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA | | | | |
| RUN: Year 2022 | | | | | | | | | | | |
| Roadway Name | Width | Points Name | No. | Coordinates (pavement) | | | Flow Control | | | Segment | |
| | | | | X | Y | Z | Control Device | Speed Constraint | Percent Vehicles Affected | Pvmt Type | On Struct? |
| | ft | | | ft | ft | ft | | mph | % | | |
| N. Perris Blvd - s. of Sinclair Street | 80.0 | point64 | 64 | 10,176.7 | 344.4 | 1,450.00 | | | | Average | |
| | | point5 | 5 | 10,168.4 | 1,887.5 | 1,450.00 | | | | Average | |
| | | point90 | 90 | 10,164.2 | 3,193.6 | 1,450.00 | | | | | |
| Sinclair Street - w. of N. Perris Blvd. | 80.0 | point68 | 68 | 9,602.5 | 3,261.6 | 1,450.00 | | | | Average | |
| | | point34 | 34 | 9,817.7 | 3,240.8 | 1,450.00 | | | | Average | |
| | | point35 | 35 | 10,033.0 | 3,181.7 | 1,450.00 | | | | Average | |
| | | point36 | 36 | 10,154.5 | 3,195.6 | 1,450.00 | | | | | |
| Morgon St - w. of Webster Ave | 80.0 | point70 | 70 | 3,511.2 | 4,630.2 | 1,450.00 | | | | Average | |
| | | point23 | 23 | 3,796.7 | 4,643.4 | 1,450.00 | | | | Average | |
| | | point24 | 24 | 4,498.7 | 4,660.8 | 1,450.00 | | | | Average | |
| | | point25 | 25 | 4,774.3 | 4,639.0 | 1,450.00 | | | | | |
| Ramona Exprsswy - w of Webster Ave | 80.0 | point72 | 72 | 2,296.6 | 6,759.1 | 1,450.00 | | | | Average | |
| | | point11 | 11 | 2,921.5 | 6,974.3 | 1,450.00 | | | | Average | |
| | | point12 | 12 | 3,209.6 | 7,073.3 | 1,450.00 | | | | Average | |
| | | point13 | 13 | 3,371.1 | 7,118.4 | 1,450.00 | | | | Average | |
| | | point14 | 14 | 3,428.4 | 7,137.5 | 1,450.00 | | | | Average | |
| | | point15 | 15 | 3,466.5 | 7,134.0 | 1,450.00 | | | | Average | |
| | | point16 | 16 | 4,787.6 | 7,142.7 | 1,450.00 | | | | | |
| Webster Ave - s. of Morgon Ave | 80.0 | point74 | 74 | 4,791.2 | 2,066.1 | 1,450.00 | | | | Average | |
| | | point61 | 61 | 4,782.4 | 4,646.9 | 1,450.00 | | | | | |
| Ramona Exprsswy - e of Webster Ave | 80.0 | point77 | 77 | 4,800.6 | 7,142.7 | 1,450.00 | | | | Average | |
| | | point17 | 17 | 6,159.8 | 7,134.4 | 1,450.00 | | | | Average | |
| | | point18 | 18 | 7,537.6 | 7,131.7 | 1,450.00 | | | | Average | |
| | | point19 | 19 | 8,844.7 | 7,121.2 | 1,450.00 | | | | | |
| Webster Ave - s. of Ramona Exprsswy | 80.0 | point78 | 78 | 4,782.4 | 4,646.9 | 1,450.00 | | | | Average | |

INPUT: ROADWAYS

Perris and Morgon Warehouse PN 12761

| | | | | | | | | | | | |
|--|------|---------|----|----------|---------|----------|--|--|--|---------|--|
| | | point62 | 62 | 4,793.5 | 7,138.0 | 1,450.00 | | | | | |
| Webster Ave - n. of Ramona Exprsswy | 80.0 | point79 | 79 | 4,793.5 | 7,138.0 | 1,450.00 | | | | Average | |
| | | point2 | 2 | 4,793.5 | 8,394.9 | 1,450.00 | | | | | |
| Morgon St - e. of Webster Ave | 80.0 | point80 | 80 | 4,800.3 | 4,639.0 | 1,450.00 | | | | Average | |
| | | point26 | 26 | 6,176.2 | 4,628.0 | 1,450.00 | | | | Average | |
| | | point27 | 27 | 7,509.9 | 4,578.5 | 1,450.00 | | | | | |
| Morgon St - e. of Indian Ave | 80.0 | point81 | 81 | 7,559.9 | 4,578.5 | 1,450.00 | | | | Average | |
| | | point28 | 28 | 7,829.6 | 4,561.9 | 1,450.00 | | | | Average | |
| | | point29 | 29 | 8,028.0 | 4,506.8 | 1,450.00 | | | | Average | |
| | | point30 | 30 | 8,860.2 | 4,501.3 | 1,450.00 | | | | Average | |
| | | point31 | 31 | 10,147.3 | 4,501.3 | 1,450.00 | | | | | |
| Ramona Exprsswy - e. of indian Ave | 80.0 | point82 | 82 | 8,874.7 | 7,121.2 | 1,450.00 | | | | Average | |
| | | point20 | 20 | 10,164.0 | 7,117.8 | 1,450.00 | | | | | |
| Indian Avenue - n. of Ramona Exprsswy | 80.0 | point83 | 83 | 8,851.3 | 7,146.2 | 1,450.00 | | | | Average | |
| | | point54 | 54 | 8,823.5 | 7,687.8 | 1,450.00 | | | | Average | |
| | | point55 | 55 | 8,795.7 | 7,847.5 | 1,450.00 | | | | Average | |
| | | point56 | 56 | 8,718.6 | 8,040.4 | 1,450.00 | | | | Average | |
| | | point57 | 57 | 8,622.2 | 8,189.2 | 1,450.00 | | | | Average | |
| | | point58 | 58 | 8,525.9 | 8,333.5 | 1,450.00 | | | | Average | |
| | | point59 | 59 | 8,490.9 | 8,412.3 | 1,450.00 | | | | | |
| Ramona Exprsswy - e. of Perris Blvd. | 80.0 | point84 | 84 | 10,194.0 | 7,117.8 | 1,450.00 | | | | Average | |
| | | point21 | 21 | 11,448.5 | 7,124.7 | 1,450.00 | | | | | |
| N. Perris Blvd - n. of Ramona Exprsswy | 80.0 | point85 | 85 | 10,171.1 | 7,127.1 | 1,450.00 | | | | Average | |
| | | point9 | 9 | 10,192.0 | 8,265.9 | 1,450.00 | | | | | |
| N. Perris Blvd - s. of Ramona Exprsswy-2 | 80.0 | point86 | 86 | 10,160.1 | 4,499.7 | 1,450.00 | | | | Average | |
| | | point7 | 7 | 10,169.8 | 5,836.2 | 1,450.00 | | | | Average | |
| | | point8 | 8 | 10,171.1 | 7,127.1 | 1,450.00 | | | | | |
| Morgon St - e. of N. Perris Blvd. | 80.0 | point87 | 87 | 10,177.3 | 4,501.3 | 1,450.00 | | | | Average | |
| | | point32 | 32 | 11,340.9 | 4,492.6 | 1,450.00 | | | | | |
| Sinclair Street - e. of N. Perris Blvd | 80.0 | point88 | 88 | 10,184.5 | 3,195.6 | 1,450.00 | | | | Average | |
| | | point37 | 37 | 11,328.0 | 3,181.7 | 1,450.00 | | | | | |
| Indian Avenue - s. of Ramona Exprsswy | 80.0 | point89 | 89 | 7,552.4 | 4,568.8 | 1,450.00 | | | | Average | |
| | | point46 | 46 | 7,565.5 | 4,896.9 | 1,450.00 | | | | Average | |
| | | point47 | 47 | 7,679.3 | 5,233.7 | 1,450.00 | | | | Average | |
| | | point48 | 48 | 7,937.4 | 5,583.6 | 1,450.00 | | | | Average | |
| | | point49 | 49 | 8,374.8 | 5,863.6 | 1,450.00 | | | | Average | |
| | | point50 | 50 | 8,637.3 | 6,134.8 | 1,450.00 | | | | Average | |
| | | point51 | 51 | 8,816.6 | 6,493.4 | 1,450.00 | | | | Average | |
| | | point52 | 52 | 8,851.3 | 6,903.2 | 1,450.00 | | | | Average | |

INPUT: ROADWAYS

Perris and Morgon Warehouse PN 12761

| | | | | | | | | | | | |
|--|------|---------|----|----------|---------|----------|--|--|--|---------|--|
| | | point53 | 53 | 8,851.3 | 7,146.2 | 1,450.00 | | | | | |
| N. Perris Blvd - n. of Sinclair Street | 80.0 | point91 | 91 | 10,164.2 | 3,193.6 | 1,450.00 | | | | Average | |
| | | point6 | 6 | 10,160.1 | 4,499.7 | 1,450.00 | | | | | |

INPUT: TRAFFIC FOR LAeq1h Volumes

Perris and Morgon Warehouse PN 12761

| | | | | | | | | | | | | |
|---|---------|--------------------------------------|---------|----------------|---------|-----|---------|-----|--------|-----|-------------|-----|
| Dudek | | | | | | | | | | | | |
| MG | | | | | | | | | | | | |
| | | | | 14 August 2020 | | | | | | | | |
| | | | | TNM 2.5 | | | | | | | | |
| INPUT: TRAFFIC FOR LAeq1h Volumes | | | | | | | | | | | | |
| PROJECT/CONTRACT: | | Perris and Morgon Warehouse PN 12761 | | | | | | | | | | |
| RUN: | | Year 2022 | | | | | | | | | | |
| Roadway | Points | | | | | | | | | | | |
| Name | Name | No. | Segment | | MTrucks | | HTrucks | | Buses | | Motorcycles | |
| | | | Autos | | V | S | V | S | V | S | V | S |
| | | | veh/hr | mph | veh/hr | mph | veh/hr | mph | veh/hr | mph | veh/hr | mph |
| N. Perris Blvd - s. of Sinclair Street | point64 | 64 | 1446 | 45 | 193 | 45 | 289 | 45 | 0 | 0 | 0 | 0 |
| | point5 | 5 | 1446 | 45 | 193 | 45 | 289 | 45 | 0 | 0 | 0 | 0 |
| | point90 | 90 | | | | | | | | | | |
| Sinclair Street - w. of N. Perris Blvd. | point68 | 68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | point34 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | point35 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | point36 | 36 | | | | | | | | | | |
| Morgon St - w. of Webster Ave | point70 | 70 | 137 | 45 | 18 | 45 | 27 | 45 | 0 | 0 | 0 | 0 |
| | point23 | 23 | 137 | 45 | 18 | 45 | 27 | 45 | 0 | 0 | 0 | 0 |
| | point24 | 24 | 137 | 45 | 18 | 45 | 27 | 45 | 0 | 0 | 0 | 0 |
| | point25 | 25 | | | | | | | | | | |
| Ramona Exprsswy - w of Webster Ave | point72 | 72 | 2487 | 55 | 332 | 55 | 497 | 55 | 0 | 0 | 0 | 0 |
| | point11 | 11 | 2487 | 55 | 332 | 55 | 497 | 55 | 0 | 0 | 0 | 0 |
| | point12 | 12 | 2487 | 55 | 332 | 55 | 497 | 55 | 0 | 0 | 0 | 0 |
| | point13 | 13 | 2487 | 55 | 332 | 55 | 497 | 55 | 0 | 0 | 0 | 0 |
| | point14 | 14 | 2487 | 55 | 332 | 55 | 497 | 55 | 0 | 0 | 0 | 0 |
| | point15 | 15 | 2487 | 55 | 332 | 55 | 497 | 55 | 0 | 0 | 0 | 0 |
| | point16 | 16 | | | | | | | | | | |
| Webster Ave - s. of Morgon Ave | point74 | 74 | 332 | 45 | 7 | 45 | 10 | 45 | 0 | 0 | 0 | 0 |
| | point61 | 61 | | | | | | | | | | |
| Ramona Exprsswy - e of Webster Ave | point77 | 77 | 2308 | 55 | 308 | 55 | 462 | 55 | 0 | 0 | 0 | 0 |
| | point17 | 17 | 2308 | 55 | 308 | 55 | 462 | 55 | 0 | 0 | 0 | 0 |
| | point18 | 18 | 2308 | 55 | 308 | 55 | 462 | 55 | 0 | 0 | 0 | 0 |

INPUT: TRAFFIC FOR LAeq1h Volumes

Perris and Morgon Warehouse PN 12761

| | | | | | | | | | | | | |
|--|---------|----|------|----|-----|----|-----|----|---|---|---|---|
| | point19 | 19 | | | | | | | | | | |
| Webster Ave - s. of Ramona Exprsswy | point78 | 78 | 332 | 45 | 7 | 45 | 10 | 45 | 0 | 0 | 0 | 0 |
| | point62 | 62 | | | | | | | | | | |
| Webster Ave - n. of Ramona Exprsswy | point79 | 79 | 467 | 35 | 10 | 35 | 15 | 35 | 0 | 0 | 0 | 0 |
| | point2 | 2 | | | | | | | | | | |
| Morgon St - e. of Webster Ave | point80 | 80 | 137 | 45 | 18 | 45 | 27 | 45 | 0 | 0 | 0 | 0 |
| | point26 | 26 | 137 | 45 | 18 | 45 | 27 | 45 | 0 | 0 | 0 | 0 |
| | point27 | 27 | | | | | | | | | | |
| Morgon St - e. of Indian Ave | point81 | 81 | 137 | 45 | 18 | 45 | 27 | 45 | 0 | 0 | 0 | 0 |
| | point28 | 28 | 137 | 45 | 18 | 45 | 27 | 45 | 0 | 0 | 0 | 0 |
| | point29 | 29 | 137 | 45 | 18 | 45 | 27 | 45 | 0 | 0 | 0 | 0 |
| | point30 | 30 | 137 | 45 | 18 | 45 | 27 | 45 | 0 | 0 | 0 | 0 |
| | point31 | 31 | | | | | | | | | | |
| Ramona Exprsswy - e. of indian Ave | point82 | 82 | 2208 | 55 | 294 | 55 | 442 | 55 | 0 | 0 | 0 | 0 |
| | point20 | 20 | | | | | | | | | | |
| Indian Avenue - n. of Ramona Exprsswy | point83 | 83 | 412 | 45 | 55 | 45 | 82 | 45 | 0 | 0 | 0 | 0 |
| | point54 | 54 | 412 | 45 | 55 | 45 | 82 | 45 | 0 | 0 | 0 | 0 |
| | point55 | 55 | 412 | 45 | 55 | 45 | 82 | 45 | 0 | 0 | 0 | 0 |
| | point56 | 56 | 412 | 45 | 55 | 45 | 82 | 45 | 0 | 0 | 0 | 0 |
| | point57 | 57 | 412 | 45 | 55 | 45 | 82 | 45 | 0 | 0 | 0 | 0 |
| | point58 | 58 | 412 | 45 | 55 | 45 | 82 | 45 | 0 | 0 | 0 | 0 |
| | point59 | 59 | | | | | | | | | | |
| Ramona Exprsswy - e. of Perris Blvd. | point84 | 84 | 1812 | 55 | 242 | 55 | 362 | 55 | 0 | 0 | 0 | 0 |
| | point21 | 21 | | | | | | | | | | |
| N. Perris Blvd - n. of Ramona Exprsswy | point85 | 85 | 1484 | 45 | 198 | 45 | 297 | 45 | 0 | 0 | 0 | 0 |
| | point9 | 9 | | | | | | | | | | |
| N. Perris Blvd - s. of Ramona Exprsswy-2 | point86 | 86 | 1449 | 45 | 193 | 45 | 290 | 45 | 0 | 0 | 0 | 0 |
| | point7 | 7 | 1449 | 45 | 193 | 45 | 290 | 45 | 0 | 0 | 0 | 0 |
| | point8 | 8 | | | | | | | | | | |
| Morgon St - e. of N. Perris Blvd. | point87 | 87 | 53 | 45 | 7 | 45 | 11 | 45 | 0 | 0 | 0 | 0 |
| | point32 | 32 | | | | | | | | | | |
| Sinclair Street - e. of N. Perris Blvd | point88 | 88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | point37 | 37 | | | | | | | | | | |
| Indian Avenue - s. of Ramona Exprsswy | point89 | 89 | 302 | 45 | 40 | 45 | 60 | 45 | 0 | 0 | 0 | 0 |
| | point46 | 46 | 302 | 45 | 40 | 45 | 60 | 45 | 0 | 0 | 0 | 0 |
| | point47 | 47 | 302 | 45 | 40 | 45 | 60 | 45 | 0 | 0 | 0 | 0 |

INPUT: TRAFFIC FOR LAeq1h Volumes**Perris and Morgon Warehouse PN 12761**

| | | | | | | | | | | | | |
|--|---------|----|------|----|-----|----|-----|----|---|---|---|---|
| | point48 | 48 | 302 | 45 | 40 | 45 | 60 | 45 | 0 | 0 | 0 | 0 |
| | point49 | 49 | 302 | 45 | 40 | 45 | 60 | 45 | 0 | 0 | 0 | 0 |
| | point50 | 50 | 302 | 45 | 40 | 45 | 60 | 45 | 0 | 0 | 0 | 0 |
| | point51 | 51 | 302 | 45 | 40 | 45 | 60 | 45 | 0 | 0 | 0 | 0 |
| | point52 | 52 | 302 | 45 | 40 | 45 | 60 | 45 | 0 | 0 | 0 | 0 |
| | point53 | 53 | | | | | | | | | | |
| N. Perris Blvd - n. of Sinclair Street | point91 | 91 | 1446 | 45 | 193 | 45 | 289 | 45 | 0 | 0 | 0 | 0 |
| | point6 | 6 | | | | | | | | | | |

INPUT: RECEIVERS

Perris and Morgon Warehouse PN 12761

| | | | | | | | | | | | | |
|--------------------------|------------|---|-----------------------------|----------|----------|---------------|--|------------------------|--------------|-------------|---------------|--|
| Dudek | | | | | | | | | | | | |
| MG | | | | | | | | | | | | |
| | | | | | | | 14 August 2020 | | | | | |
| | | | | | | | TNM 2.5 | | | | | |
| INPUT: RECEIVERS | | | | | | | | | | | | |
| PROJECT/CONTRACT: | | Perris and Morgon Warehouse PN 12761 | | | | | | | | | | |
| RUN: | | Year 2022 | | | | | | | | | | |
| Receiver | | | | | | | | | | | | |
| Name | No. | #DUs | Coordinates (ground) | | | Height | Input Sound Levels and Criteria | | | | Active | |
| | | | X | Y | Z | above | Existing | Impact Criteria | | NR | in | |
| | | | | | | Ground | LAeq1h | LAeq1h | Sub'l | Goal | Calc. | |
| | | | ft | ft | ft | ft | dBA | dBA | dB | dB | | |
| ST1 | 1 | 1 | 10,549.9 | 5,881.4 | 1,450.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y | |
| ST2 | 2 | 1 | 10,583.1 | 6,884.5 | 1,450.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y | |
| ST3 | 3 | 1 | 8,818.2 | 7,983.2 | 1,450.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y | |
| ST4 | 4 | 1 | 4,874.3 | 7,510.6 | 1,450.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y | |
| ST5 | 5 | 1 | 4,710.0 | 4,688.2 | 1,450.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y | |
| ST6 | 6 | 1 | 10,224.8 | 1,046.1 | 1,450.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y | |

INPUT: BARRIERS

Perris and Morgon Warehouse PN 12761

| | | | | | | | | | | | | | | | | | | | |
|-------|--|--|--|--|--|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Dudek | | | | | | 14 August 2020 | | | | | | | | | | | | | |
| MG | | | | | | TNM 2.5 | | | | | | | | | | | | | |

INPUT: BARRIERS

PROJECT/CONTRACT:

Perris and Morgon Warehouse PN 12761

RUN:

Year 2022

| Barrier | | | | | | | | | | Points | | | | | | | | | |
|------------------|------|--------|-------|------------------|------------------|-----------|----------|--------------------|---------|----------------------|----------|---------|----------|----------|------------|--------|--------------|------------|----------------|
| Name | Type | Height | | If Wall | If Berm | | Add'tnl | Name | No. | Coordinates (bottom) | | | Height | Segment | | | Important | | |
| | | Min | Max | \$ per Unit Area | \$ per Unit Vol. | Top Width | Run:Rise | \$ per Unit Length | | | X | Y | Z | at Point | Seg Incre- | Ht #Up | Perturbs #Dn | On Struct? | Reflec- tions? |
| | | ft | ft | \$/sq ft | \$/cu yd | ft | ft:ft | \$/ft | | | ft | ft | ft | ft | ft | | | | |
| Barrier1 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point1 | 1 | 7,881.2 | 4,778.2 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point3 | 3 | 7,874.2 | 5,319.9 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point4 | 4 | 8,020.1 | 5,472.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point5 | 5 | 9,915.7 | 5,431.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point6 | 6 | 9,929.6 | 4,729.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point7 | 7 | 7,936.7 | 4,750.5 | 1,450.00 | 20.00 | | | | | |
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point63 | 63 | 4,842.5 | 7,475.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point60 | 60 | 4,837.3 | 7,252.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point61 | 61 | 5,205.3 | 7,251.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point2 | 2 | 5,668.9 | 7,242.3 | 1,450.00 | 20.00 | | | | | |
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point65 | 65 | 3,788.5 | 4,804.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point57 | 57 | 4,370.0 | 4,809.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point58 | 58 | 4,367.2 | 5,008.3 | 1,450.00 | 20.00 | | | | | |
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point67 | 67 | 5,560.5 | 4,958.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point54 | 54 | 5,880.2 | 4,958.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point55 | 55 | 5,880.2 | 5,388.5 | 1,450.00 | 20.00 | | | | | |
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point69 | 69 | 5,351.1 | 4,363.7 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point45 | 45 | 7,081.7 | 4,314.1 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point46 | 46 | 7,087.2 | 3,459.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point47 | 47 | 5,400.7 | 3,514.9 | 1,450.00 | 20.00 | | | | | |
| Barrier1-2-2-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point71 | 71 | 10,333.6 | 1,050.9 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point49 | 49 | 10,339.1 | 1,558.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point50 | 50 | 10,543.0 | 1,558.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point51 | 51 | 10,515.5 | 1,806.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point52 | 52 | 11,143.8 | 1,795.0 | 1,450.00 | 20.00 | | | | | |
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point73 | 73 | 11,113.5 | 4,841.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point35 | 35 | 10,529.3 | 4,836.1 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point36 | 36 | 10,515.5 | 4,797.5 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point37 | 37 | 10,377.7 | 4,797.5 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point38 | 38 | 10,377.7 | 5,591.2 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point39 | 39 | 10,529.3 | 5,585.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point40 | 40 | 10,523.7 | 5,544.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point41 | 41 | 11,124.5 | 5,547.0 | 1,450.00 | 20.00 | | | | | |
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point75 | 75 | 9,943.5 | 5,799.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point13 | 13 | 8,832.5 | 5,805.9 | 1,450.00 | 20.00 | | | | | |

INPUT: BARRIERS

Perris and Morgon Warehouse PN 12761

| | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|------|-------|------|--|--|--|------|---------|----|----------|---------|----------|-------|------|---|---|--|--|
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point76 | 76 | 8,776.9 | 5,792.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point9 | 9 | 8,783.9 | 6,132.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point10 | 10 | 8,957.5 | 6,354.5 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point11 | 11 | 9,922.7 | 6,340.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point12 | 12 | 9,943.5 | 5,799.0 | 1,450.00 | 20.00 | | | | | |
| Barrier1-2-2-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point78 | 78 | 6,519.9 | 6,779.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point30 | 30 | 7,225.3 | 6,773.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point31 | 31 | 7,225.3 | 4,933.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point32 | 32 | 6,503.4 | 4,938.5 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point33 | 33 | 6,486.8 | 6,746.2 | 1,450.00 | 20.00 | | | | | |
| Barrier1-2-2-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point80 | 80 | 7,693.7 | 4,172.2 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point15 | 15 | 8,790.5 | 4,166.7 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point16 | 16 | 8,796.0 | 3,483.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point17 | 17 | 7,715.8 | 3,461.2 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point18 | 18 | 7,715.8 | 4,122.6 | 1,450.00 | 20.00 | | | | | |
| Barrier1-2-2-2-2-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point82 | 82 | 9,099.1 | 4,067.5 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point20 | 20 | 9,540.0 | 4,073.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point21 | 21 | 9,545.5 | 3,648.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point22 | 22 | 9,071.6 | 3,659.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point23 | 23 | 9,071.6 | 4,050.9 | 1,450.00 | 20.00 | | | | | |
| Barrier1-2-2-2-2-2-2-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point84 | 84 | 10,358.4 | 3,742.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point25 | 25 | 11,110.8 | 3,724.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point26 | 26 | 11,110.8 | 3,226.1 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point27 | 27 | 10,410.9 | 3,269.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point28 | 28 | 10,428.4 | 3,681.0 | 1,450.00 | 20.00 | | | | | |
| Barrier25 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point85 | 85 | 11,062.9 | 6,921.7 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point86 | 86 | 10,400.3 | 6,921.7 | 1,450.00 | 20.00 | | | | | |
| Barrier26 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point87 | 87 | 10,407.1 | 6,826.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point88 | 88 | 10,407.1 | 6,446.9 | 1,450.00 | 20.00 | | | | | |

RESULTS: SOUND LEVELS

Perris and Morgon Warehouse PN 12761

| | | | | | | | | | | | | | |
|------------------------------|--|------------|--------------|------------------------|-------------------|---------------|-------------------------------|---------------------|---------------|--|------------------------|-------------|-------------------|
| Dudek | | | | | | | | | | 14 August 2020 | | | |
| MG | | | | | | | | | | TNM 2.5 | | | |
| | | | | | | | | | | Calculated with TNM 2.5 | | | |
| RESULTS: SOUND LEVELS | | | | | | | | | | | | | |
| PROJECT/CONTRACT: | | | | | | | | | | Perris and Morgon Warehouse PN 12761 | | | |
| RUN: | | | | | | | | | | Year 2022 | | | |
| BARRIER DESIGN: | | | | | | | | | | INPUT HEIGHTS | | | |
| | | | | | | | | | | Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA. | | | |
| ATMOSPHERICS: | | | | | | | | | | 68 deg F, 50% RH | | | |
| Receiver | | | | | | | | | | | | | |
| Name | | No. | #DUs | Existing | No Barrier | | | With Barrier | | | | | |
| | | | | LAeq1h | LAeq1h | | Increase over existing | | Type | Calculated | Noise Reduction | | |
| | | | | | Calculated | Crit'n | Calculated | Crit'n | Impact | LAeq1h | Calculated | Goal | Calculated |
| | | | | | | | | Sub'l Inc | | | | | minus |
| | | | | | | | | | | | | | Goal |
| | | | | dB | dB | dB | dB | dB | | dB | dB | dB | dB |
| ST1 | | 1 | 1 | 0.0 | 62.0 | 66 | 62.0 | 10 | ---- | 62.0 | 0.0 | 8 | -8.0 |
| ST2 | | 2 | 1 | 0.0 | 59.5 | 66 | 59.5 | 10 | ---- | 59.5 | 0.0 | 8 | -8.0 |
| ST3 | | 3 | 1 | 0.0 | 67.3 | 66 | 67.3 | 10 | Snd Lvl | 67.3 | 0.0 | 8 | -8.0 |
| ST4 | | 4 | 1 | 0.0 | 63.5 | 66 | 63.5 | 10 | ---- | 63.5 | 0.0 | 8 | -8.0 |
| ST5 | | 5 | 1 | 0.0 | 66.4 | 66 | 66.4 | 10 | Snd Lvl | 66.4 | 0.0 | 8 | -8.0 |
| ST6 | | 6 | 1 | 0.0 | 74.2 | 66 | 74.2 | 10 | Snd Lvl | 74.2 | 0.0 | 8 | -8.0 |
| Dwelling Units | | | # DUs | Noise Reduction | | | | | | | | | |
| | | | | Min | Avg | Max | | | | | | | |
| | | | | dB | dB | dB | | | | | | | |
| All Selected | | | 6 | 0.0 | 0.0 | 0.0 | | | | | | | |
| All Impacted | | | 3 | 0.0 | 0.0 | 0.0 | | | | | | | |
| All that meet NR Goal | | | 0 | 0.0 | 0.0 | 0.0 | | | | | | | |

INPUT: ROADWAYS

Perris and Morgon Warehouse PN 12761

| Dudek MG | | | | 17 September 2020 TNM 2.5 | | | | | | | |
|---|-------|-------------|-----|--------------------------------------|---------|----------|---|------------------|---------------------------|-----------|------------|
| INPUT: ROADWAYS | | | | Perris and Morgon Warehouse PN 12761 | | | Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA | | | | |
| PROJECT/CONTRACT: | | | | Year 2022 w Proj 092020 | | | | | | | |
| RUN: | | | | | | | | | | | |
| Roadway Name | Width | Points Name | No. | Coordinates (pavement) | | | Flow Control | | | Segment | |
| | | | | X | Y | Z | Control Device | Speed Constraint | Percent Vehicles Affected | Pvmt Type | On Struct? |
| | ft | | | ft | ft | ft | | mph | % | | |
| N. Perris Blvd - s. of Sinclair Street | 80.0 | point64 | 64 | 10,176.7 | 344.4 | 1,450.00 | | | | Average | |
| | | point5 | 5 | 10,168.4 | 1,887.5 | 1,450.00 | | | | Average | |
| | | point90 | 90 | 10,164.2 | 3,193.6 | 1,450.00 | | | | | |
| Sinclair Street - w. of N. Perris Blvd. | 80.0 | point68 | 68 | 9,602.5 | 3,261.6 | 1,450.00 | | | | Average | |
| | | point34 | 34 | 9,817.7 | 3,240.8 | 1,450.00 | | | | Average | |
| | | point35 | 35 | 10,033.0 | 3,181.7 | 1,450.00 | | | | Average | |
| | | point36 | 36 | 10,154.5 | 3,195.6 | 1,450.00 | | | | | |
| Morgon St - w. of Webster Ave | 80.0 | point70 | 70 | 3,511.2 | 4,630.2 | 1,450.00 | | | | Average | |
| | | point23 | 23 | 3,796.7 | 4,643.4 | 1,450.00 | | | | Average | |
| | | point24 | 24 | 4,498.7 | 4,660.8 | 1,450.00 | | | | Average | |
| | | point25 | 25 | 4,774.3 | 4,639.0 | 1,450.00 | | | | | |
| Ramona Exprsswy - w of Webster Ave | 80.0 | point72 | 72 | 2,296.6 | 6,759.1 | 1,450.00 | | | | Average | |
| | | point11 | 11 | 2,921.5 | 6,974.3 | 1,450.00 | | | | Average | |
| | | point12 | 12 | 3,209.6 | 7,073.3 | 1,450.00 | | | | Average | |
| | | point13 | 13 | 3,371.1 | 7,118.4 | 1,450.00 | | | | Average | |
| | | point14 | 14 | 3,428.4 | 7,137.5 | 1,450.00 | | | | Average | |
| | | point15 | 15 | 3,466.5 | 7,134.0 | 1,450.00 | | | | Average | |
| | | point16 | 16 | 4,787.6 | 7,142.7 | 1,450.00 | | | | | |
| Webster Ave - s. of Morgon Ave | 80.0 | point74 | 74 | 4,791.2 | 2,066.1 | 1,450.00 | | | | Average | |
| | | point61 | 61 | 4,782.4 | 4,646.9 | 1,450.00 | | | | | |
| Ramona Exprsswy - e of Webster Ave | 80.0 | point77 | 77 | 4,800.6 | 7,142.7 | 1,450.00 | | | | Average | |
| | | point17 | 17 | 6,159.8 | 7,134.4 | 1,450.00 | | | | Average | |
| | | point18 | 18 | 7,537.6 | 7,131.7 | 1,450.00 | | | | Average | |
| | | point19 | 19 | 8,844.7 | 7,121.2 | 1,450.00 | | | | | |
| Webster Ave - s. of Ramona Exprsswy | 80.0 | point78 | 78 | 4,782.4 | 4,646.9 | 1,450.00 | | | | Average | |

INPUT: ROADWAYS

Perris and Morgon Warehouse PN 12761

| | | | | | | | | | | | |
|--|------|---------|----|----------|---------|----------|--|--|--|--|---------|
| | | point62 | 62 | 4,793.5 | 7,138.0 | 1,450.00 | | | | | |
| Webster Ave - n. of Ramona Exprsswy | 80.0 | point79 | 79 | 4,793.5 | 7,138.0 | 1,450.00 | | | | | Average |
| | | point2 | 2 | 4,793.5 | 8,394.9 | 1,450.00 | | | | | |
| Morgon St - e. of Webster Ave | 80.0 | point80 | 80 | 4,800.3 | 4,639.0 | 1,450.00 | | | | | Average |
| | | point26 | 26 | 6,176.2 | 4,628.0 | 1,450.00 | | | | | Average |
| | | point27 | 27 | 7,509.9 | 4,578.5 | 1,450.00 | | | | | |
| Morgon St - e. of Indian Ave | 80.0 | point81 | 81 | 7,559.9 | 4,578.5 | 1,450.00 | | | | | Average |
| | | point28 | 28 | 7,829.6 | 4,561.9 | 1,450.00 | | | | | Average |
| | | point29 | 29 | 8,028.0 | 4,506.8 | 1,450.00 | | | | | Average |
| | | point30 | 30 | 8,860.2 | 4,501.3 | 1,450.00 | | | | | Average |
| | | point31 | 31 | 10,147.3 | 4,501.3 | 1,450.00 | | | | | |
| Ramona Exprsswy - e. of indian Ave | 80.0 | point82 | 82 | 8,874.7 | 7,121.2 | 1,450.00 | | | | | Average |
| | | point20 | 20 | 10,164.0 | 7,117.8 | 1,450.00 | | | | | |
| Indian Avenue - n. of Ramona Exprsswy | 80.0 | point83 | 83 | 8,851.3 | 7,146.2 | 1,450.00 | | | | | Average |
| | | point54 | 54 | 8,823.5 | 7,687.8 | 1,450.00 | | | | | Average |
| | | point55 | 55 | 8,795.7 | 7,847.5 | 1,450.00 | | | | | Average |
| | | point56 | 56 | 8,718.6 | 8,040.4 | 1,450.00 | | | | | Average |
| | | point57 | 57 | 8,622.2 | 8,189.2 | 1,450.00 | | | | | Average |
| | | point58 | 58 | 8,525.9 | 8,333.5 | 1,450.00 | | | | | Average |
| | | point59 | 59 | 8,490.9 | 8,412.3 | 1,450.00 | | | | | |
| Ramona Exprsswy - e. of Perris Blvd. | 80.0 | point84 | 84 | 10,194.0 | 7,117.8 | 1,450.00 | | | | | Average |
| | | point21 | 21 | 11,448.5 | 7,124.7 | 1,450.00 | | | | | |
| N. Perris Blvd - n. of Ramona Exprsswy | 80.0 | point85 | 85 | 10,171.1 | 7,127.1 | 1,450.00 | | | | | Average |
| | | point9 | 9 | 10,192.0 | 8,265.9 | 1,450.00 | | | | | |
| N. Perris Blvd - s. of Ramona Exprsswy-2 | 80.0 | point86 | 86 | 10,160.1 | 4,499.7 | 1,450.00 | | | | | Average |
| | | point7 | 7 | 10,169.8 | 5,836.2 | 1,450.00 | | | | | Average |
| | | point8 | 8 | 10,171.1 | 7,127.1 | 1,450.00 | | | | | |
| Morgon St - e. of N. Perris Blvd. | 80.0 | point87 | 87 | 10,177.3 | 4,501.3 | 1,450.00 | | | | | Average |
| | | point32 | 32 | 11,340.9 | 4,492.6 | 1,450.00 | | | | | |
| Sinclair Street - e. of N. Perris Blvd | 80.0 | point88 | 88 | 10,184.5 | 3,195.6 | 1,450.00 | | | | | Average |
| | | point37 | 37 | 11,328.0 | 3,181.7 | 1,450.00 | | | | | |
| Indian Avenue - s. of Ramona Exprsswy | 80.0 | point89 | 89 | 7,552.4 | 4,568.8 | 1,450.00 | | | | | Average |
| | | point46 | 46 | 7,565.5 | 4,896.9 | 1,450.00 | | | | | Average |
| | | point47 | 47 | 7,679.3 | 5,233.7 | 1,450.00 | | | | | Average |
| | | point48 | 48 | 7,937.4 | 5,583.6 | 1,450.00 | | | | | Average |
| | | point49 | 49 | 8,374.8 | 5,863.6 | 1,450.00 | | | | | Average |
| | | point50 | 50 | 8,637.3 | 6,134.8 | 1,450.00 | | | | | Average |
| | | point51 | 51 | 8,816.6 | 6,493.4 | 1,450.00 | | | | | Average |
| | | point52 | 52 | 8,851.3 | 6,903.2 | 1,450.00 | | | | | Average |

INPUT: ROADWAYS**Perris and Morgon Warehouse PN 12761**

| | | | | | | | | | | | |
|--|------|---------|----|----------|---------|----------|--|--|--|---------|--|
| | | point53 | 53 | 8,851.3 | 7,146.2 | 1,450.00 | | | | | |
| N. Perris Blvd - n. of Sinclair Street | 80.0 | point91 | 91 | 10,164.2 | 3,193.6 | 1,450.00 | | | | Average | |
| | | point6 | 6 | 10,160.1 | 4,499.7 | 1,450.00 | | | | | |

INPUT: TRAFFIC FOR LAeq1h Volumes

Perris and Morgon Warehouse PN 12761

| Dudek | | 17 September 2020 | | | | | | | | | | |
|---|---------|--------------------------------------|---------|-----|---------|-----|---------|-----|--------|-----|-------------|-----|
| MG | | TNM 2.5 | | | | | | | | | | |
| INPUT: TRAFFIC FOR LAeq1h Volumes | | | | | | | | | | | | |
| PROJECT/CONTRACT: | | Perris and Morgon Warehouse PN 12761 | | | | | | | | | | |
| RUN: | | Year 2022 w Proj 092020 | | | | | | | | | | |
| Roadway | Points | | | | | | | | | | | |
| Name | Name | No. | Segment | | MTrucks | | HTrucks | | Buses | | Motorcycles | |
| | | | Autos | | V | S | V | S | V | S | V | S |
| | | | veh/hr | mph | veh/hr | mph | veh/hr | mph | veh/hr | mph | veh/hr | mph |
| N. Perris Blvd - s. of Sinclair Street | point64 | 64 | 1455 | 45 | 193 | 45 | 289 | 45 | 0 | 0 | 0 | 0 |
| | point5 | 5 | 1455 | 45 | 193 | 45 | 289 | 45 | 0 | 0 | 0 | 0 |
| | point90 | 90 | | | | | | | | | | |
| Sinclair Street - w. of N. Perris Blvd. | point68 | 68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | point34 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | point35 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | point36 | 36 | | | | | | | | | | |
| Morgon St - w. of Webster Ave | point70 | 70 | 145 | 45 | 19 | 45 | 29 | 45 | 0 | 0 | 0 | 0 |
| | point23 | 23 | 145 | 45 | 19 | 45 | 29 | 45 | 0 | 0 | 0 | 0 |
| | point24 | 24 | 145 | 45 | 19 | 45 | 29 | 45 | 0 | 0 | 0 | 0 |
| | point25 | 25 | | | | | | | | | | |
| Ramona Exprsswy - w of Webster Ave | point72 | 72 | 2516 | 55 | 336 | 55 | 506 | 55 | 0 | 0 | 0 | 0 |
| | point11 | 11 | 2516 | 55 | 336 | 55 | 506 | 55 | 0 | 0 | 0 | 0 |
| | point12 | 12 | 2516 | 55 | 336 | 55 | 506 | 55 | 0 | 0 | 0 | 0 |
| | point13 | 13 | 2516 | 55 | 336 | 55 | 506 | 55 | 0 | 0 | 0 | 0 |
| | point14 | 14 | 2516 | 55 | 336 | 55 | 506 | 55 | 0 | 0 | 0 | 0 |
| | point15 | 15 | 2516 | 55 | 336 | 55 | 506 | 55 | 0 | 0 | 0 | 0 |
| | point16 | 16 | | | | | | | | | | |
| Webster Ave - s. of Morgon Ave | point74 | 74 | 344 | 45 | 10 | 45 | 15 | 45 | 0 | 0 | 0 | 0 |
| | point61 | 61 | | | | | | | | | | |
| Ramona Exprsswy - e of Webster Ave | point77 | 77 | 2325 | 55 | 310 | 55 | 465 | 55 | 0 | 0 | 0 | 0 |
| | point17 | 17 | 2325 | 55 | 310 | 55 | 465 | 55 | 0 | 0 | 0 | 0 |
| | point18 | 18 | 2325 | 55 | 310 | 55 | 465 | 55 | 0 | 0 | 0 | 0 |

INPUT: TRAFFIC FOR LAeq1h Volumes

Perris and Morgon Warehouse PN 12761

| | | | | | | | | | | | | |
|--|---------|----|------|----|-----|----|-----|----|---|---|---|---|
| | point19 | 19 | | | | | | | | | | |
| Webster Ave - s. of Ramona Exprsswy | point78 | 78 | 344 | 45 | 10 | 45 | 15 | 45 | 0 | 0 | 0 | 0 |
| | point62 | 62 | | | | | | | | | | |
| Webster Ave - n. of Ramona Exprsswy | point79 | 79 | 467 | 35 | 10 | 35 | 15 | 35 | 0 | 0 | 0 | 0 |
| | point2 | 2 | | | | | | | | | | |
| Morgon St - e. of Webster Ave | point80 | 80 | 145 | 45 | 19 | 45 | 29 | 45 | 0 | 0 | 0 | 0 |
| | point26 | 26 | 145 | 45 | 19 | 45 | 29 | 45 | 0 | 0 | 0 | 0 |
| | point27 | 27 | | | | | | | | | | |
| Morgon St - e. of Indian Ave | point81 | 81 | 145 | 45 | 19 | 45 | 29 | 45 | 0 | 0 | 0 | 0 |
| | point28 | 28 | 145 | 45 | 19 | 45 | 29 | 45 | 0 | 0 | 0 | 0 |
| | point29 | 29 | 145 | 45 | 19 | 45 | 29 | 45 | 0 | 0 | 0 | 0 |
| | point30 | 30 | 145 | 45 | 19 | 45 | 29 | 45 | 0 | 0 | 0 | 0 |
| | point31 | 31 | | | | | | | | | | |
| Ramona Exprsswy - e. of indian Ave | point82 | 82 | 2217 | 55 | 295 | 55 | 442 | 55 | 0 | 0 | 0 | 0 |
| | point20 | 20 | | | | | | | | | | |
| Indian Avenue - n. of Ramona Exprsswy | point83 | 83 | 412 | 45 | 55 | 45 | 82 | 45 | 0 | 0 | 0 | 0 |
| | point54 | 54 | 412 | 45 | 55 | 45 | 82 | 45 | 0 | 0 | 0 | 0 |
| | point55 | 55 | 412 | 45 | 55 | 45 | 82 | 45 | 0 | 0 | 0 | 0 |
| | point56 | 56 | 412 | 45 | 55 | 45 | 82 | 45 | 0 | 0 | 0 | 0 |
| | point57 | 57 | 412 | 45 | 55 | 45 | 82 | 45 | 0 | 0 | 0 | 0 |
| | point58 | 58 | 412 | 45 | 55 | 45 | 82 | 45 | 0 | 0 | 0 | 0 |
| | point59 | 59 | | | | | | | | | | |
| Ramona Exprsswy - e. of Perris Blvd. | point84 | 84 | 1814 | 55 | 242 | 55 | 362 | 55 | 0 | 0 | 0 | 0 |
| | point21 | 21 | | | | | | | | | | |
| N. Perris Blvd - n. of Ramona Exprsswy | point85 | 85 | 1488 | 45 | 198 | 45 | 297 | 45 | 0 | 0 | 0 | 0 |
| | point9 | 9 | | | | | | | | | | |
| N. Perris Blvd - s. of Ramona Exprsswy-2 | point86 | 86 | 1464 | 45 | 194 | 45 | 291 | 45 | 0 | 0 | 0 | 0 |
| | point7 | 7 | 1464 | 45 | 194 | 45 | 291 | 45 | 0 | 0 | 0 | 0 |
| | point8 | 8 | | | | | | | | | | |
| Morgon St - e. of N. Perris Blvd. | point87 | 87 | 53 | 45 | 7 | 45 | 11 | 45 | 0 | 0 | 0 | 0 |
| | point32 | 32 | | | | | | | | | | |
| Sinclair Street - e. of N. Perris Blvd | point88 | 88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | point37 | 37 | | | | | | | | | | |
| Indian Avenue - s. of Ramona Exprsswy | point89 | 89 | 310 | 45 | 42 | 45 | 64 | 45 | 0 | 0 | 0 | 0 |
| | point46 | 46 | 310 | 45 | 42 | 45 | 64 | 45 | 0 | 0 | 0 | 0 |
| | point47 | 47 | 310 | 45 | 42 | 45 | 64 | 45 | 0 | 0 | 0 | 0 |

INPUT: TRAFFIC FOR LAeq1h Volumes

Perris and Morgon Warehouse PN 12761

| | | | | | | | | | | | | |
|--|---------|----|------|----|-----|----|-----|----|---|---|---|---|
| | point48 | 48 | 310 | 45 | 42 | 45 | 64 | 45 | 0 | 0 | 0 | 0 |
| | point49 | 49 | 310 | 45 | 42 | 45 | 64 | 45 | 0 | 0 | 0 | 0 |
| | point50 | 50 | 310 | 45 | 42 | 45 | 64 | 45 | 0 | 0 | 0 | 0 |
| | point51 | 51 | 310 | 45 | 42 | 45 | 64 | 45 | 0 | 0 | 0 | 0 |
| | point52 | 52 | 310 | 45 | 42 | 45 | 64 | 45 | 0 | 0 | 0 | 0 |
| | point53 | 53 | | | | | | | | | | |
| N. Perris Blvd - n. of Sinclair Street | point91 | 91 | 1455 | 45 | 193 | 45 | 289 | 45 | 0 | 0 | 0 | 0 |
| | point6 | 6 | | | | | | | | | | |

INPUT: RECEIVERS

Perris and Morgon Warehouse PN 12761

| | | | | | | | 17 September 2020 | | | | | |
|-------------------|-----|------|----------------------|---------|----------|---------------------------|--------------------------------------|------------------|-------------------|------------|-----------------------|--|
| Dudek | | | | | | | TNM 2.5 | | | | | |
| MG | | | | | | | | | | | | |
| INPUT: RECEIVERS | | | | | | | | | | | | |
| PROJECT/CONTRACT: | | | | | | | Perris and Morgon Warehouse PN 12761 | | | | | |
| RUN: | | | | | | | Year 2022 w Proj 092020 | | | | | |
| Receiver | | | | | | | | | | | | |
| Name | No. | #DUs | Coordinates (ground) | | | Height above Ground | Input Sound Levels and Criteria | | | | Active in Calc. | |
| | | | X | Y | Z | | Existing LAeq1h | Impact LAeq1h | Criteria Sub'l | NR Goal | | |
| | | | ft | ft | ft | ft | dBA | dBA | dB | dB | | |
| ST1 | 1 | 1 | 10,549.9 | 5,881.4 | 1,450.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y | |
| ST2 | 2 | 1 | 10,583.1 | 6,884.5 | 1,450.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y | |
| ST3 | 3 | 1 | 8,818.2 | 7,983.2 | 1,450.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y | |
| ST4 | 4 | 1 | 4,874.3 | 7,510.6 | 1,450.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y | |
| ST5 | 5 | 1 | 4,710.0 | 4,688.2 | 1,450.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y | |
| ST6 | 6 | 1 | 10,224.8 | 1,046.1 | 1,450.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y | |

INPUT: BARRIERS

Perris and Morgon Warehouse PN 12761

| | |
|-------|-------------------|
| Dudek | 17 September 2020 |
| MG | TNM 2.5 |

INPUT: BARRIERS

PROJECT/CONTRACT: Perris and Morgon Warehouse PN 12761
 RUN: Year 2022 w Proj 092020

| Barrier | | | | | | | | | Points | | | | | | | | | | | |
|------------------|------|--------|-------|------------------|------------------|-----------|-------|--------------------|---------|-----|----------------------|---------|----------|----------|---------|----|----------|----|-----------|---------|
| Name | Type | Height | | If Wall | If Berm | Run:Rise | | Add'tnl | Name | No. | Coordinates (bottom) | | | Height | Segment | | | On | Important | |
| | | Min | Max | \$ per Unit Area | \$ per Unit Vol. | Top Width | ft:ft | \$ per Unit Length | | | X | Y | Z | at Point | Seg | Ht | Perturbs | | | Struct? |
| | | ft | ft | \$/sq ft | \$/cu yd | ft | ft:ft | \$/ft | | | ft | ft | ft | ft | ft | ft | | | | |
| Barrier1 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point1 | 1 | 7,881.2 | 4,778.2 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point3 | 3 | 7,874.2 | 5,319.9 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point4 | 4 | 8,020.1 | 5,472.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point5 | 5 | 9,915.7 | 5,431.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point6 | 6 | 9,929.6 | 4,729.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point7 | 7 | 7,936.7 | 4,750.5 | 1,450.00 | 20.00 | | | | | | |
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point63 | 63 | 4,842.5 | 7,475.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point60 | 60 | 4,837.3 | 7,252.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point61 | 61 | 5,205.3 | 7,251.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point2 | 2 | 5,668.9 | 7,242.3 | 1,450.00 | 20.00 | | | | | | |
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point65 | 65 | 3,788.5 | 4,804.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point57 | 57 | 4,370.0 | 4,809.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point58 | 58 | 4,367.2 | 5,008.3 | 1,450.00 | 20.00 | | | | | | |
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point67 | 67 | 5,560.5 | 4,958.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point54 | 54 | 5,880.2 | 4,958.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point55 | 55 | 5,880.2 | 5,388.5 | 1,450.00 | 20.00 | | | | | | |
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point69 | 69 | 5,351.1 | 4,363.7 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point45 | 45 | 7,081.7 | 4,314.1 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point46 | 46 | 7,087.2 | 3,459.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point47 | 47 | 5,400.7 | 3,514.9 | 1,450.00 | 20.00 | | | | | | |
| Barrier1-2-2-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point71 | 71 | 10,333.6 | 1,050.9 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point49 | 49 | 10,339.1 | 1,558.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point50 | 50 | 10,543.0 | 1,558.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point51 | 51 | 10,515.5 | 1,806.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point52 | 52 | 11,143.8 | 1,795.0 | 1,450.00 | 20.00 | | | | | | |
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point73 | 73 | 11,113.5 | 4,841.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point35 | 35 | 10,529.3 | 4,836.1 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point36 | 36 | 10,515.5 | 4,797.5 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point37 | 37 | 10,377.7 | 4,797.5 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point38 | 38 | 10,377.7 | 5,591.2 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point39 | 39 | 10,529.3 | 5,585.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point40 | 40 | 10,523.7 | 5,544.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point41 | 41 | 11,124.5 | 5,547.0 | 1,450.00 | 20.00 | | | | | | |
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point75 | 75 | 9,943.5 | 5,799.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | | |
| | | | | | | | | | point13 | 13 | 8,832.5 | 5,805.9 | 1,450.00 | 20.00 | | | | | | |

INPUT: BARRIERS

Perris and Morgon Warehouse PN 12761

| | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|------|-------|------|--|--|--|------|---------|----|----------|---------|----------|-------|------|---|---|--|--|
| Barrier1-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point76 | 76 | 8,776.9 | 5,792.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point9 | 9 | 8,783.9 | 6,132.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point10 | 10 | 8,957.5 | 6,354.5 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point11 | 11 | 9,922.7 | 6,340.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point12 | 12 | 9,943.5 | 5,799.0 | 1,450.00 | 20.00 | | | | | |
| Barrier1-2-2-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point78 | 78 | 6,519.9 | 6,779.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point30 | 30 | 7,225.3 | 6,773.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point31 | 31 | 7,225.3 | 4,933.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point32 | 32 | 6,503.4 | 4,938.5 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point33 | 33 | 6,486.8 | 6,746.2 | 1,450.00 | 20.00 | | | | | |
| Barrier1-2-2-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point80 | 80 | 7,693.7 | 4,172.2 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point15 | 15 | 8,790.5 | 4,166.7 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point16 | 16 | 8,796.0 | 3,483.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point17 | 17 | 7,715.8 | 3,461.2 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point18 | 18 | 7,715.8 | 4,122.6 | 1,450.00 | 20.00 | | | | | |
| Barrier1-2-2-2-2-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point82 | 82 | 9,099.1 | 4,067.5 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point20 | 20 | 9,540.0 | 4,073.0 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point21 | 21 | 9,545.5 | 3,648.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point22 | 22 | 9,071.6 | 3,659.6 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point23 | 23 | 9,071.6 | 4,050.9 | 1,450.00 | 20.00 | | | | | |
| Barrier1-2-2-2-2-2-2-2-2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point84 | 84 | 10,358.4 | 3,742.3 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point25 | 25 | 11,110.8 | 3,724.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point26 | 26 | 11,110.8 | 3,226.1 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point27 | 27 | 10,410.9 | 3,269.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point28 | 28 | 10,428.4 | 3,681.0 | 1,450.00 | 20.00 | | | | | |
| Barrier25 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point85 | 85 | 11,062.9 | 6,921.7 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point86 | 86 | 10,400.3 | 6,921.7 | 1,450.00 | 20.00 | | | | | |
| Barrier26 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point87 | 87 | 10,407.1 | 6,826.8 | 1,450.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point88 | 88 | 10,407.1 | 6,446.9 | 1,450.00 | 20.00 | | | | | |

RESULTS: SOUND LEVELS

Perris and Morgon Warehouse PN 12761

| | | | | | | | | | | | | | | |
|------------------------------|--|------------|--------------------------------------|------------------------|-------------------|---------------|-------------------------------|--|---------------|-------------------|------------------------|-------------|-------------------------|--|
| Dudek | | | | | | | | | | | | | 17 September 2020 | |
| MG | | | | | | | | | | | | | TNM 2.5 | |
| | | | | | | | | | | | | | Calculated with TNM 2.5 | |
| RESULTS: SOUND LEVELS | | | | | | | | | | | | | | |
| PROJECT/CONTRACT: | | | Perris and Morgon Warehouse PN 12761 | | | | | | | | | | | |
| RUN: | | | Year 2022 w Proj 092020 | | | | | | | | | | | |
| BARRIER DESIGN: | | | INPUT HEIGHTS | | | | | Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA. | | | | | | |
| ATMOSPHERICS: | | | 68 deg F, 50% RH | | | | | | | | | | | |
| Receiver | | | | | | | | | | | | | | |
| Name | | No. | #DUs | Existing | No Barrier | | | With Barrier | | | | | | |
| | | | | LAeq1h | LAeq1h | | Increase over existing | | Type | Calculated | Noise Reduction | | | |
| | | | | | Calculated | Crit'n | Calculated | Crit'n | Impact | LAeq1h | Calculated | Goal | Calculated | |
| | | | | | | | | Sub'l Inc | | | | | minus | |
| | | | | | | | | | | | | | Goal | |
| | | | | dB | dB | dB | dB | dB | | dB | dB | dB | dB | |
| ST1 | | 1 | 1 | 0.0 | 62.0 | 66 | 62.0 | 10 | ---- | 62.0 | 0.0 | 8 | -8.0 | |
| ST2 | | 2 | 1 | 0.0 | 59.5 | 66 | 59.5 | 10 | ---- | 59.5 | 0.0 | 8 | -8.0 | |
| ST3 | | 3 | 1 | 0.0 | 67.3 | 66 | 67.3 | 10 | Snd Lvl | 67.3 | 0.0 | 8 | -8.0 | |
| ST4 | | 4 | 1 | 0.0 | 63.6 | 66 | 63.6 | 10 | ---- | 63.6 | 0.0 | 8 | -8.0 | |
| ST5 | | 5 | 1 | 0.0 | 66.8 | 66 | 66.8 | 10 | Snd Lvl | 66.8 | 0.0 | 8 | -8.0 | |
| ST6 | | 6 | 1 | 0.0 | 74.2 | 66 | 74.2 | 10 | Snd Lvl | 74.2 | 0.0 | 8 | -8.0 | |
| Dwelling Units | | | # DUs | Noise Reduction | | | | | | | | | | |
| | | | | Min | Avg | Max | | | | | | | | |
| | | | | dB | dB | dB | | | | | | | | |
| All Selected | | | 6 | 0.0 | 0.0 | 0.0 | | | | | | | | |
| All Impacted | | | 3 | 0.0 | 0.0 | 0.0 | | | | | | | | |
| All that meet NR Goal | | | 0 | 0.0 | 0.0 | 0.0 | | | | | | | | |