Appendices

Appendix I-b Noise Monitoring and Modeling Data

Appendices

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LOCAL NOISE STANDARDS

ARTICLE VI. - NOISE CONTROL

Sec. 18-308. - Declaration of policy.

In order to control unnecessary, excessive and annoying sounds emanating from areas of the city, it is hereby declared to be the policy of the city to prohibit such sounds generated from all sources as specified in this article.

It is determined that certain sound levels are detrimental to the public health, welfare and safety, and contrary to public interest.

(Ord. No. NS-1441, 1, 8-21-78)

Sec. 18-309. - Definitions.

The following words, phrases and terms as used in this article shall have the meaning as indicated below:

Ambient noise level shall mean the all-encompassing noise level associated with a given environment, being a composite of sounds from all sources, excluding the alleged offensive noise, at the location and approximate time at which a comparison with the alleged offensive noise is to be made.

Cumulative period shall mean an additive period of time composed of individual time segments which may be continuous or interrupted.

Decibel (dB) shall mean a unit which denotes the ratio between two (2) quantities which are proportional to power: The number of decibels corresponding to the ratio of two (2) amounts of power is ten (10) times the logarithm to the base ten (10) of this ratio.

Dwelling unit shall mean a single unit providing complete, independent living facilities for one or more persons including permanent provisions for living, sleeping, eating, cooking and sanitation.

Emergency machinery, vehicle or work shall mean any machinery, vehicle or work used, employed or performed in an effort to protect, provide or restore safe conditions in the community or for the citizenry, or work by private or public utilities when restoring utility service.

Fixed noise source shall mean a stationary device which creates sounds while fixed or motionless, including, but not limited to, industrial and commercial machinery and equipment, pumps, fans, compressors, generators, air conditioners and refrigeration equipment.

Grading shall mean any excavating or filling of earth material, or any combination thereof, conducted at a site to prepare said site for construction or other improvements thereon.

Impact noise shall mean the noise produced by the collision of one mass which may be either in motion or at rest.

Mobile noise source shall mean any noise source other than a fixed noise source.

Noise level shall mean the "A" weighted sound pressure level in decibels obtained by using a sound level meter at slow response with a reference pressure of twenty (20) micronewtons per square meter. The unit of measurement shall be designated as dB (A).

Person shall mean a person, firm, association, copartnership, joint venture, corporation or any entity, public or private in nature.

Residential property shall mean a parcel of real property which is developed and used either in part or in whole for residential purposes, other than transient uses such as hotels and motels.

Simple tone noise shall mean a noise characterized by a predominant frequency or frequencies so that other frequencies cannot be readily distinguished.

Sound level meter shall mean an instrument meeting American National Standard Institute's Standard S1.4-1971 for Type 1 or Type 2 sound level meters or an instrument and the associated recording and analyzing equipment which will provide equivalent data.

Sound pressure level of a sound, in decibels, shall mean twenty (20) times the logarithm to the base ten (10) of the ratio of the pressure of the sound to a reference pressure, which reference pressure shall be explicitly stated.

(Ord. No. NS-1441, § 1, 8-21-78)

Sec. 18-310. - Noise level measurement criteria.

Any noise level measurements made pursuant to the provisions of this article shall be performed using a sound level meter as defined in <u>section 18-309</u>.

(Ord. No. NS-1441, § 1, 8-21-78)

Sec. 18-311. - Designated noise zone.

The entire City of Santa Ana is hereby designated as "Noise Zone 1."

(Ord. No. NS-1441, § 1, 8-21-78)

Sec. 18-312. - Exterior noise standards.

(a) The following noise standards, unless otherwise specifically indicated, shall apply to all residential property within a designated noise zone:

NOISE STANDARDS

| Noise Zone | Noise Level | Time Period |
|------------|-------------|-----------------------|
| 1 | 55 dB(A) | 7:00 a.m.—10:00 p.m. |
| | 50 dB(A) | 10:00 p.m.— 7:00 a.m. |

In the event the alleged offensive noise consists entirely of impact noise, simple tone noise, speech, music, or any combination thereof, each of the above noise levels shall be reduced by five (5) dB (A).

(b) It shall be unlawful for any person at any location within the City of Santa Ana to create any noise, or to allow

the creation of any noise on property owned, leased, occupied, or otherwise controlled by such person, when the foregoing causes the noise level, when measured on any other residential property, to exceed:

- (1) The noise standard for a cumulative period of more than thirty (30) minutes in any hour; or
- (2) The noise standard plus five (5) dB(A) for a cumulative period of more than fifteen (15) minutes in any hour; or
- (3) The noise standard plus ten (10) dB(A) for a cumulative period of more than five (5) minutes in any hour; or
- (4) The noise standard plus fifteen (15) dB(A) for a cumulative period of more than one minute in any hour; or
- (5) The noise standard plus twenty (20) dB(A) for any period of time.
- (c) In the event the ambient noise level exceeds any of the first four (4) noise limit categories above, the cumulative period applicable to said category shall be increased to reflect said ambient noise level. In the event the ambient noise level exceeds the fifth noise limit category, the maximum allowable noise level under said category shall be increased to reflect the maximum ambient noise level.

(Ord. No. NS-1441, § 1, 8-21-78)

Sec. 18-313. - Interior noise standards.

(a) The following interior noise standards, unless otherwise specifically indicated, shall apply to all residential property within a designated noise zone:

INTERIOR NOISE STANDARDS

| Noise Zone | Noise Level | Time Period |
|------------|-------------|----------------------|
| 1 | 55 dB(A) | 7:00 a.m.—10:00 p.m. |
| | 45 dB(A) | 10:00 p.m.—7:00 a.m. |

In the event the alleged offensive noise consists entirely of impact noise, simple tone noise, speech, music, or any combination thereof, each of the above noise levels shall be reduced by five (5) dB(A).

- (b) It shall be unlawful for any person at any location within the City of Santa Ana to create any noise, or to allow the creation of any noise on property owned, leased, occupied, or otherwise controlled by such person, when the foregoing causes the noise level, when measured within any other dwelling unit on any residential property, to exceed:
 - (1) The interior noise standard for a cumulative period of more than five (5) minutes in any hour; or
 - (2) The interior noise standard plus five (5) dB(A) for a cumulative period of more than one minute in any hour; or
 - (3) The interior noise standard plus ten (10) dB(A) for any period of time.
- (c) In the event the ambient noise level exceeds either of the first two (2) noise limit categories above, the cumulative period applicable to said category shall be increased to reflect said ambient noise level. In the event the ambient noise level exceeds the third noise limit category, the maximum allowable noise level under lib-4

said category shall be increased to reflect the maximum ambient noise level.

(Ord. No. NS-1441, § 1, 8-21-78)

Sec. 18-314. - Special provisions.

The following activities shall be exempted from the provisions of this article:

- (a) Activities conducted on the grounds of any public or private nursery, elementary, intermediate or secondary school or college.
- (b) Outdoor gatherings, public dances and shows, provided said events are conducted pursuant to a license issued by the City of Santa Ana.
- (c) Activities conducted on any park or playground, provided such park or playground is owned and operated by a public entity.
- (d) Any mechanical device, apparatus or equipment used, related to or connected with emergency machinery, vehicle or work.
- (e) Noise sources associated with construction, repair, remodeling, or grading of any real property, provided said activities do not take place between the hours of 8:00 p.m. and 7:00 a.m. on weekdays, including Saturday, or any time on Sunday or a federal holiday.
- (f) All mechanical devices, apparatus or equipment which are utilized for the protection or salvage of agricultural crops during periods of potential or actual frost damage or other adverse weather conditions.
- (g) Mobile noise sources associated with agricultural operations, provided such operations do not take place between the hours of 8:00 p.m. and 7:00 a.m. on weekdays, including Saturday, or at any time on Sunday or a federal holiday.
- (h) Mobile noise sources associated with agricultural pest control through pesticide application, provided that the application is made in accordance with restricted material permits issued by or regulations enforced by the agricultural commissioner.
- (i) Noise sources associated with the maintenance of real property, provided said activities take place between 7:00 a.m. and 8:00 p.m. on any day except Sunday or a federal holiday, or between the hours of 9:00 a.m. and 8:00 p.m. on Sunday or a federal holiday.
- (j) Any activity to the extent regulation thereof has been preempted by state or federal law.

(Ord. No. NS-1441, § 1, 8-21-78)

Sec. 18-315. - Schools, hospitals and churches; special provisions.

It shall be unlawful for any person to create any noise which causes the noise level at any school, hospital or church while the same is in use to exceed the noise limits as specified in <u>section 18-312</u> prescribed for the assigned noise zone in which the school, hospital or church is located, or which noise level unreasonably interferes with the use of such institutions or which unreasonably disturbs or annoys patients in the hospital, provided conspicuous signs are displayed in three (3) separate locations within one-tenth (1/10) of a mile of the institution indicating the presence of a school, church or hospital.

(Ord. No. NS-1441, § 1, 8-21-78)

Sec. 18-316. - Air conditioning and refrigeration; special provisions.

During the five-year period following the effective date of this article, the noise standards enumerated in sections <u>18-312</u> and <u>18-313</u> shall be increased eight (8) dB(A) where the alleged offensive noise source is an air conditioning or refrigeration system or associated equipment which was installed prior to the effective date of this article.

(Ord. No. NS-1441, § 1, 8-21-78)

Sec. 18-317. - Noise level measurement.

The location selected for measuring exterior noise levels shall be at any point on the affected property. Interior noise measurements shall be made within the affected dwelling unit. The measurement shall be made at a point at least four (4) feet from the wall, ceiling, or floor nearest the alleged offensive noise source and may be made with the windows of the affected unit open.

(Ord. No. NS-1441, § 1, 8-21-78)

Sec. 18-318. - Manner of enforcement.

The chief of police, the Orange County health officer and their duly authorized representatives are directed to enforce the provisions of this article. The chief of police, the Orange County health officer and their duly authorized representatives are authorized, pursuant to Penal Code Section 836.5, to arrest any person without a warrant when they have reasonable cause to believe that such person has committed a misdemeanor in their presence.

No person shall interfere with, oppose or resist any authorized person charged with the enforcement of this article while such person is engaged in the performance of his duty.

(Ord. No. NS-1441, § 1, 8-21-78)

Sec. 18-319. - Variance procedure.

The owner or operator of a noise source which violates any of the provisions of this article may file an application with the Orange County health officer for a variance from the provisions thereof wherein said owner or operator shall set forth all actions taken to comply with said provisions, the reasons why immediate compliance cannot be achieved, a proposed method of achieving compliance, and a proposed time schedule for its accomplishment. Said application shall be accompanied by a fee as established by resolution of the city council. A separate application shall be filed for each noise source; provided however, that several mobile sources under common ownership, or several fixed sources on a single property may be combined into one application. Upon receipt of said application and fee, the health officer shall refer it with his recommendation thereon within thirty (30) days to the Orange County Noise Variance Board for action thereon in accordance with the provisions of applicable law.

An applicant for a variance shall remain subject to prosecution under the terms of this article until a variance is granted.

(Ord. No. NS-1441, § 1, 8-21-78)

Sec. 18-320. - Appeals.

Within fifteen (15) days following the decision of the Orange County Variance Board on an application, the applicant, the health officer, or any member of the city council, may appeal the decision to the city council by filing a notice of appeal with the secretary of the Orange County Variance Board. In the case of an appeal by the applicant for a variance, the notice of

appeal shall be accompanied by a fee to be computed by the secretary of the Orange County Variance Board on the basis of the estimated cost of preparing the materials required to be forwarded to the city council as discussed hereafter. If the actual cost of such preparation differs from the estimated cost appropriate payments shall be made either to or by the secretary of the Orange County Variance Board.

Within fifteen (15) days following receipt of a notice of appeal and the appeal fee, the secretary of the Variance Board shall forward to the city council copies of the application for variance; the recommendation of the health officer; the notice of appeal; all evidence concerning said application received by the variance board and its decision thereon. In addition, any person may file with the clerk of the city council written arguments supporting or attacking said decision and the city council may in its discretion hear oral arguments thereon. The clerk of the city council shall mail to the applicant a notice of the date set for hearing of the appeal. The notice shall be mailed at least ten (10) days prior to the hearing date.

Within sixty (60) days following its receipt of the notice of appeal, the city council shall either affirm, modify or reverse the decision, of the variance board. Such decision shall be based upon the city council's evaluation of the matters submitted to the city council in light of the powers conferred on the variance board and the factors to be considered, both as enumerated in section 18-319 and Orange County Ordinance section 4-6-13.

As part of its decision, the city council may direct the variance board to conduct further proceedings on said application. Failure of the city council to affirm, modify or reverse the decision of the variance board within said sixty-day period shall constitute an affirmance of the decision.

(Ord. No. NS-1441, § 1, 8-21-78)

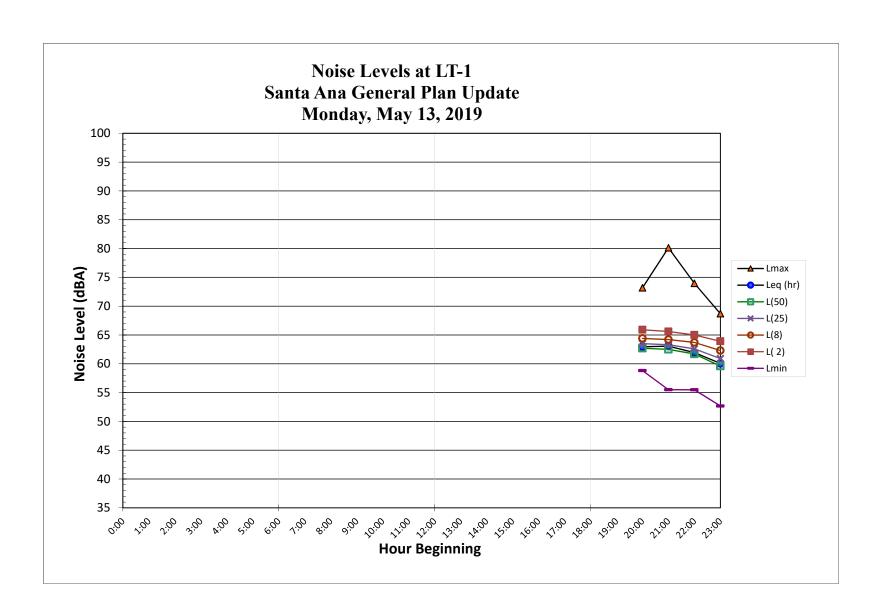
Sec. 18-321. - Violations; misdemeanors.

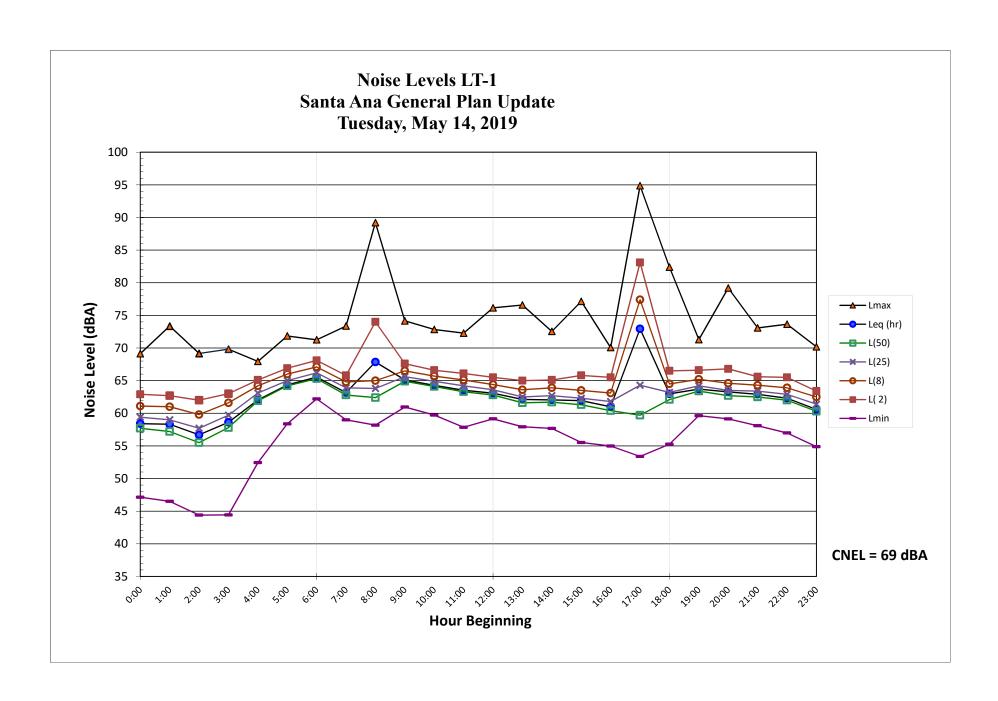
Any person violating any or the provisions of this article shall be deemed guilty of a misdemeanor. Each day such violation is committed or permitted to continue shall constitute a separate offense and shall be punishable as such. The provisions of this article shall not be construed as permitting conduct not prescribed herein and shall not affect the enforceability of any other applicable provisions of law.

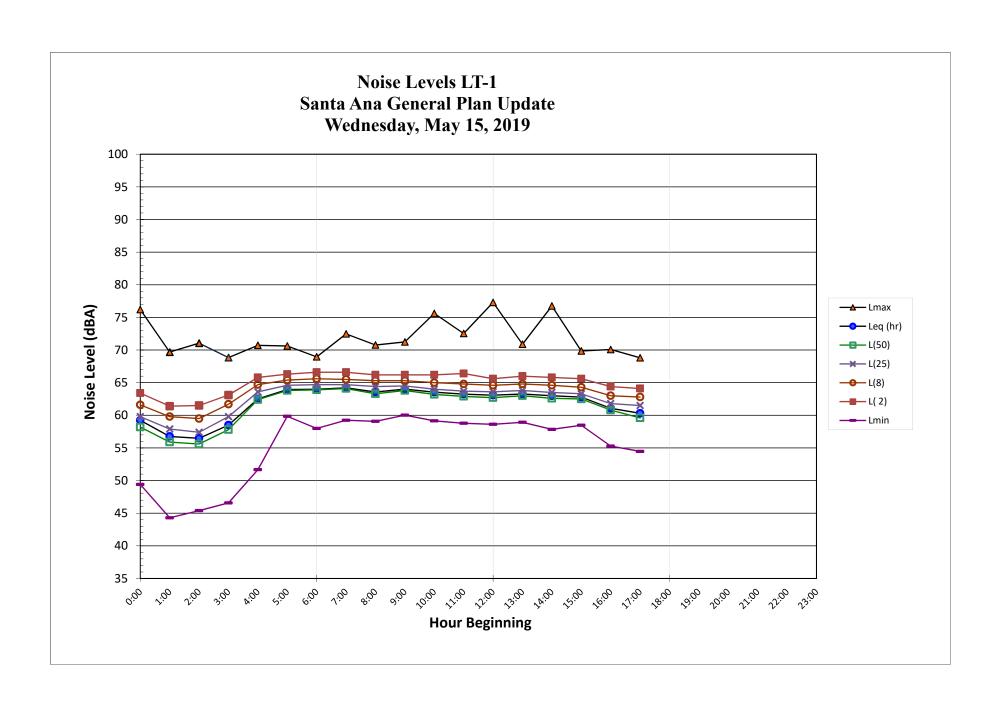
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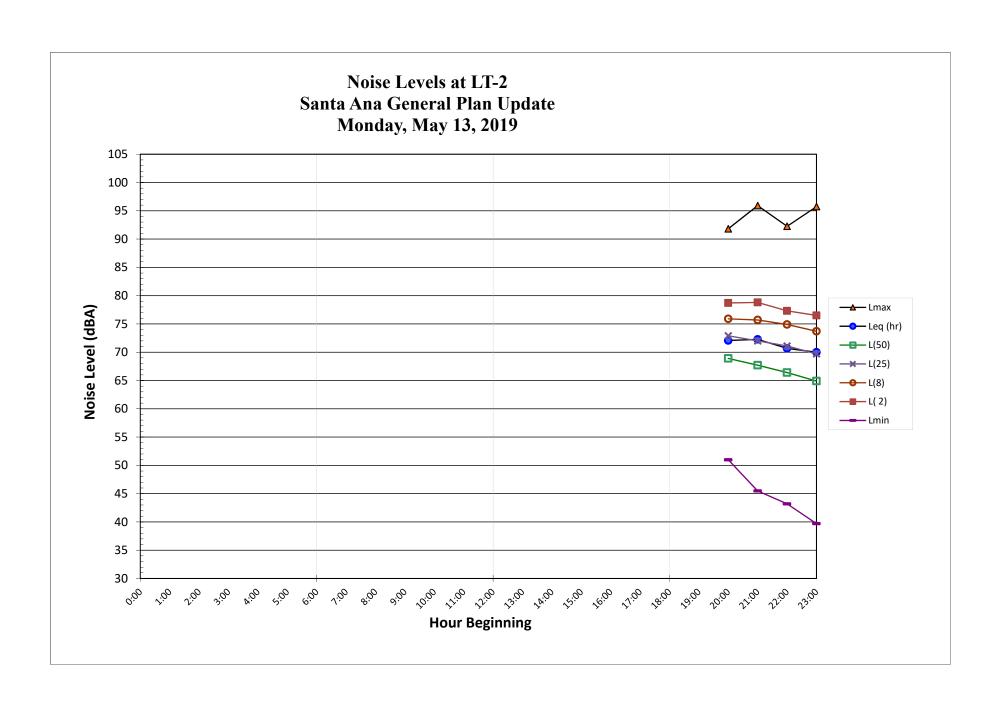
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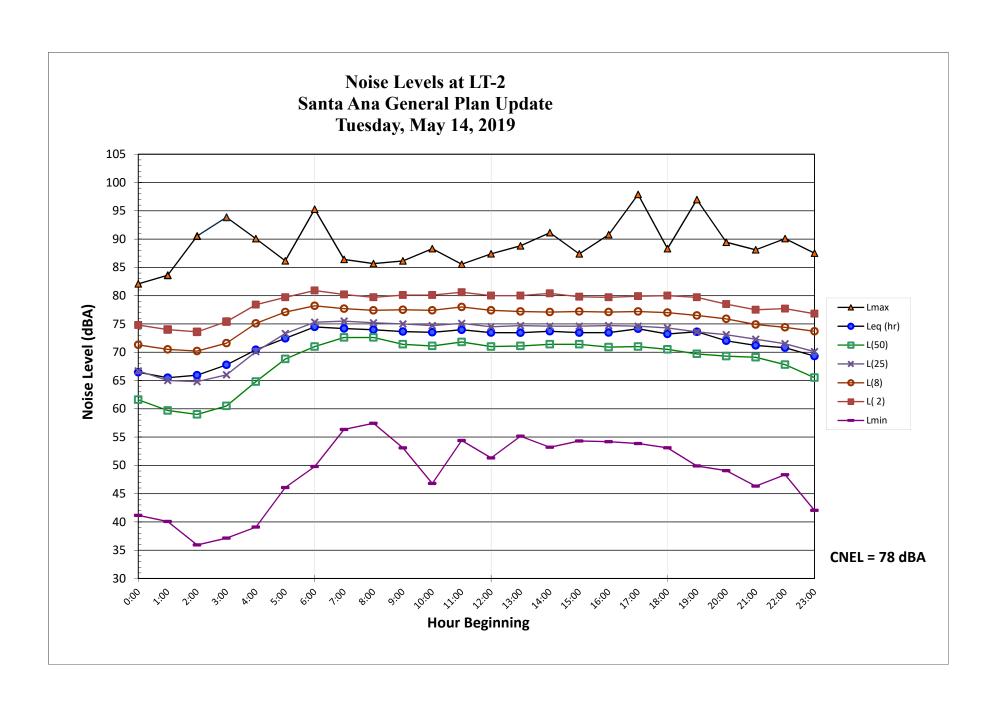
AMBIENT NOISE MONITORING RESULTS

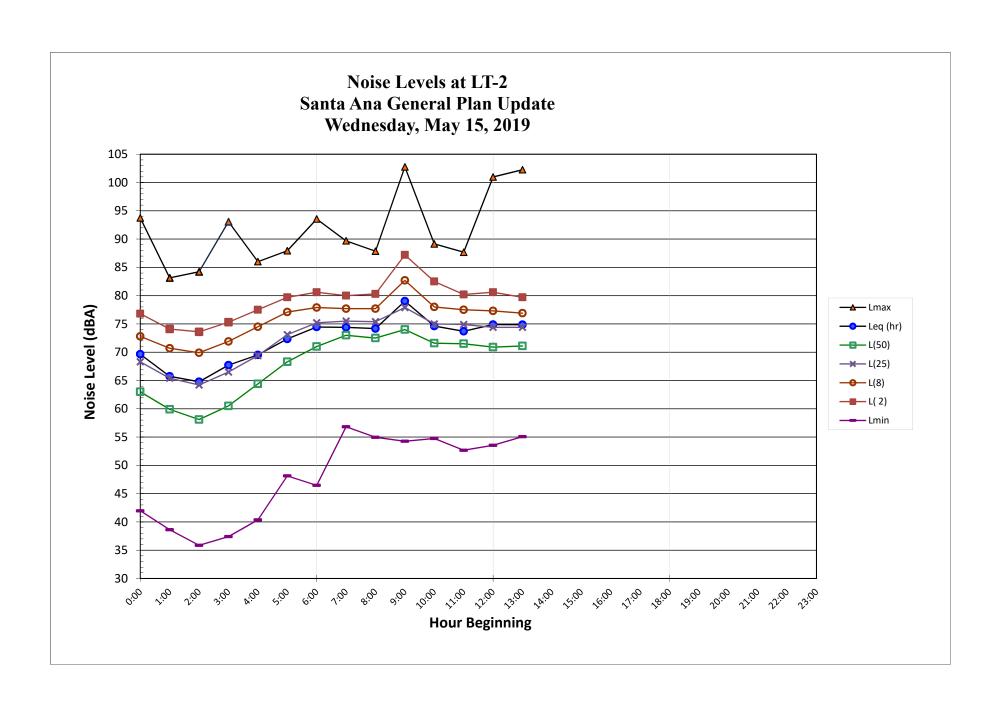


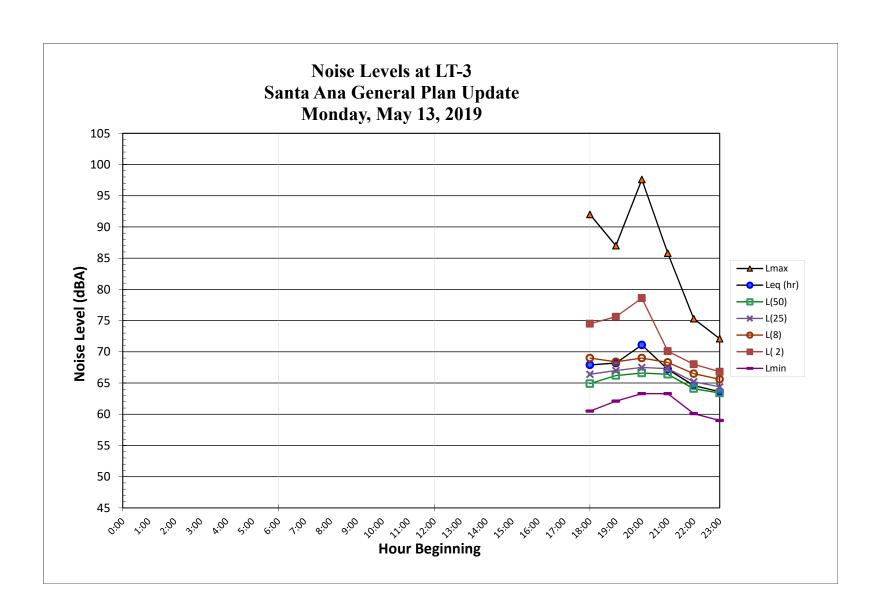


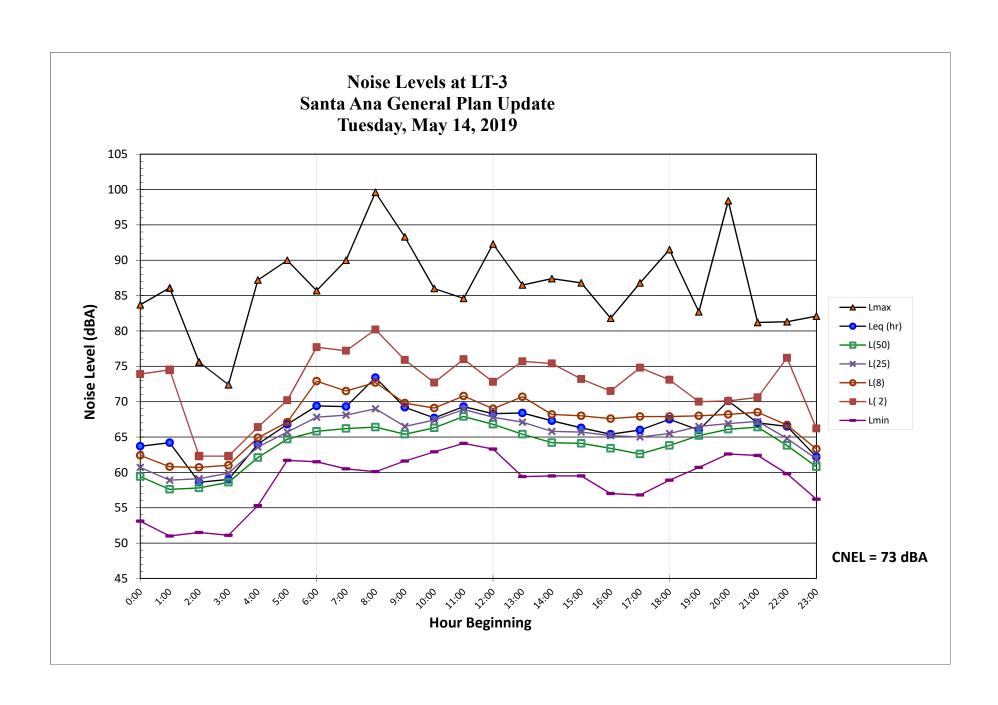


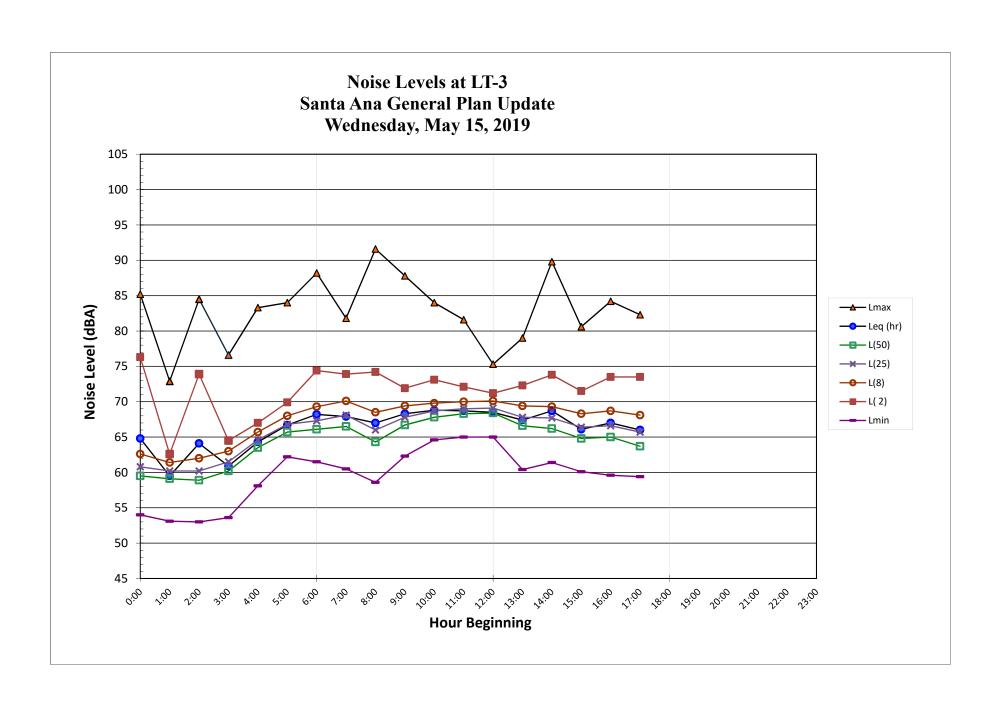


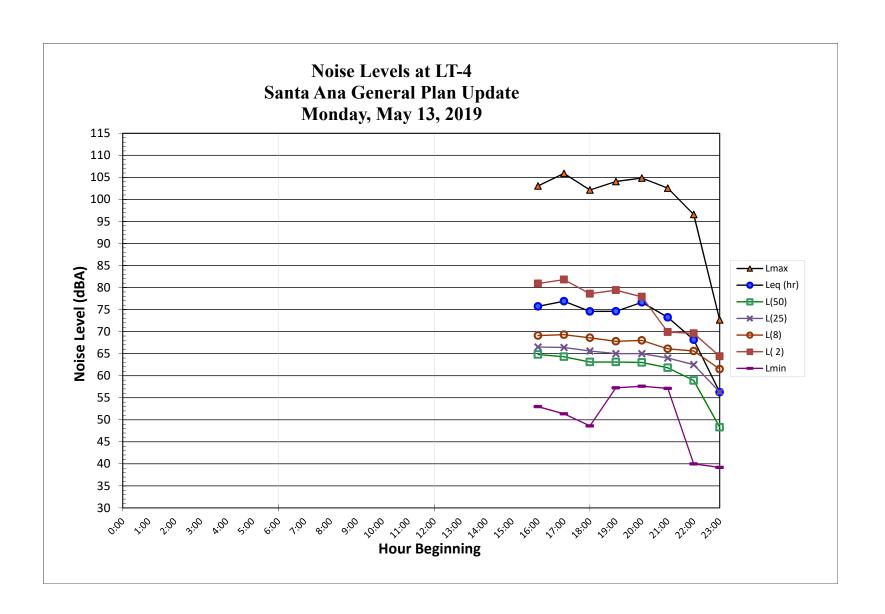


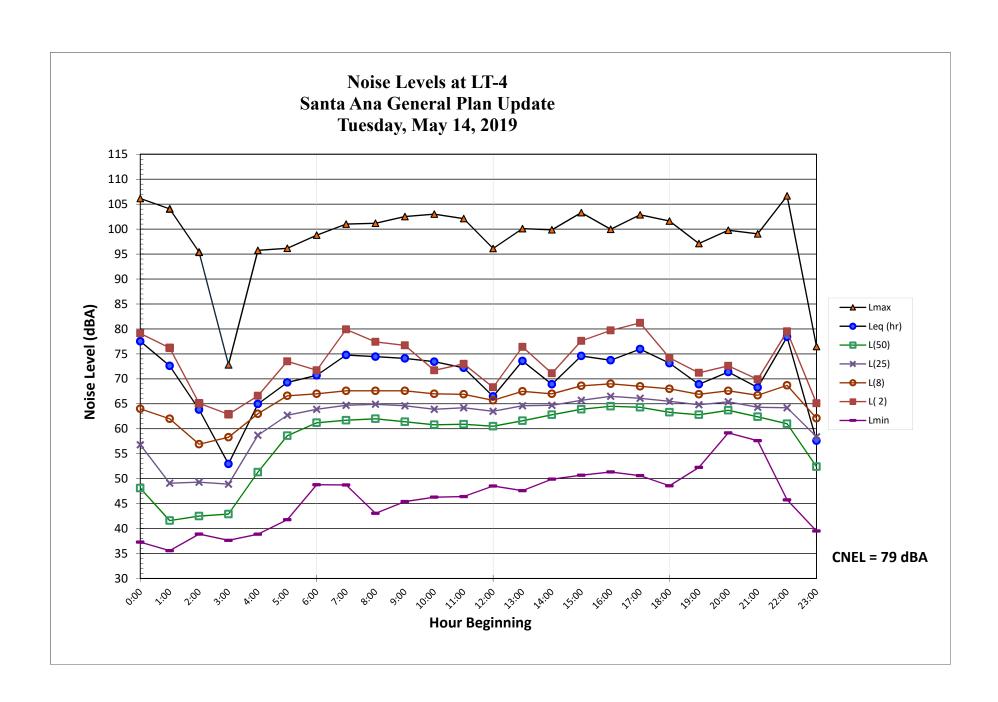


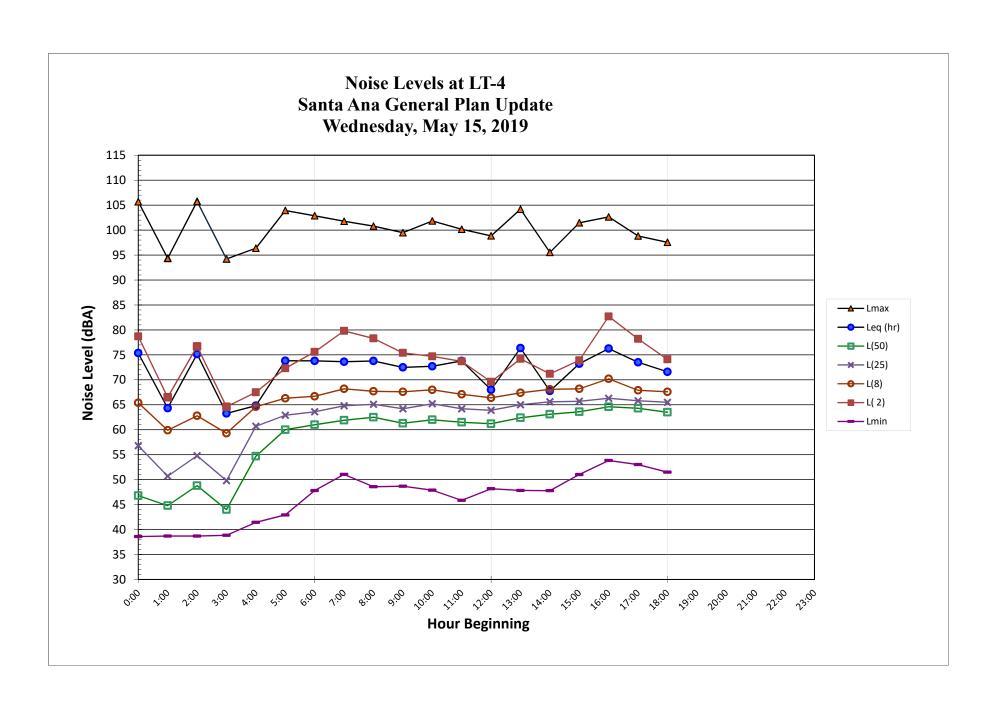


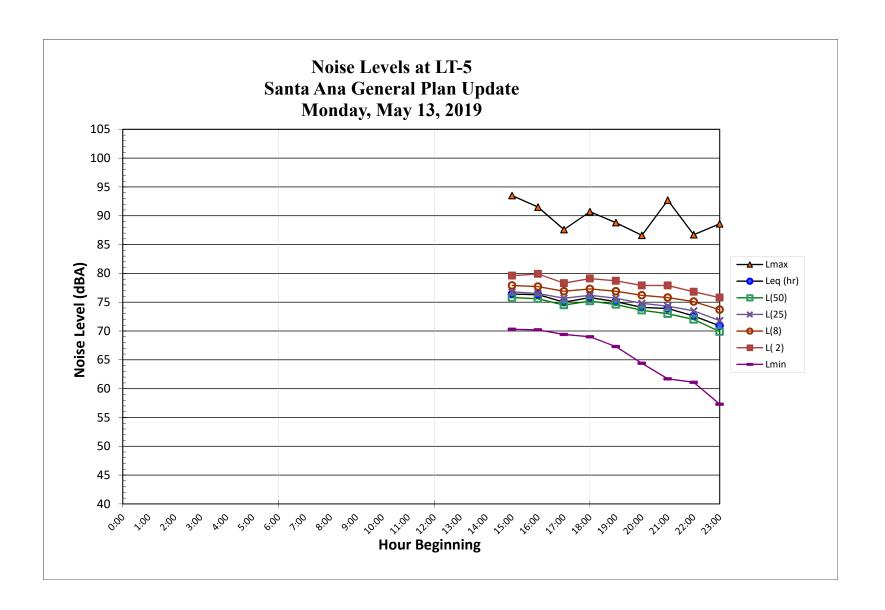


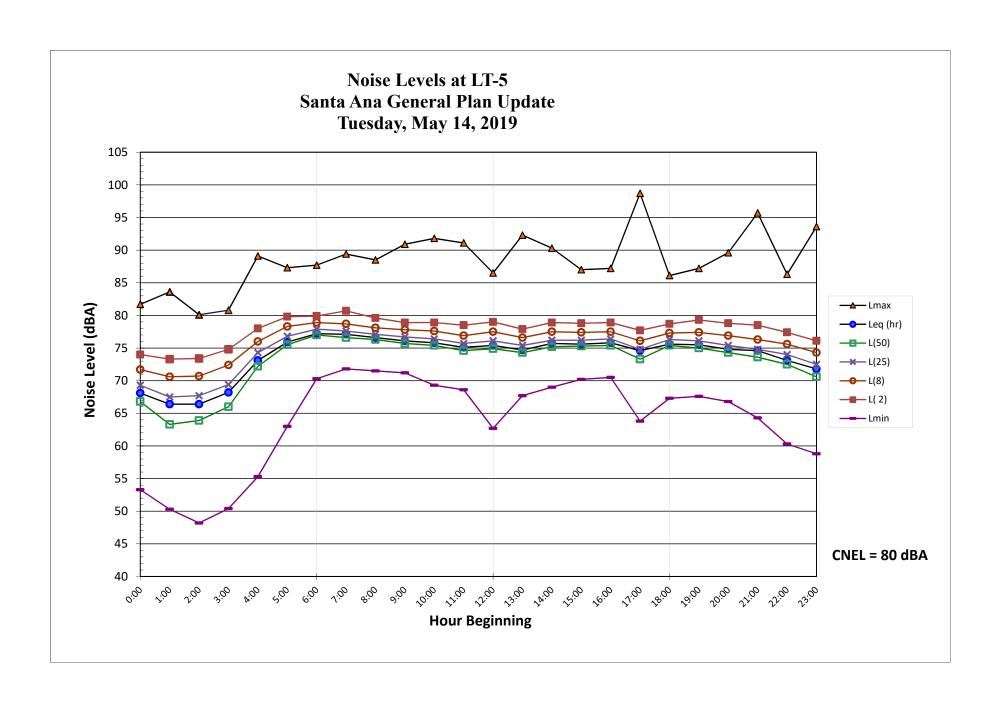


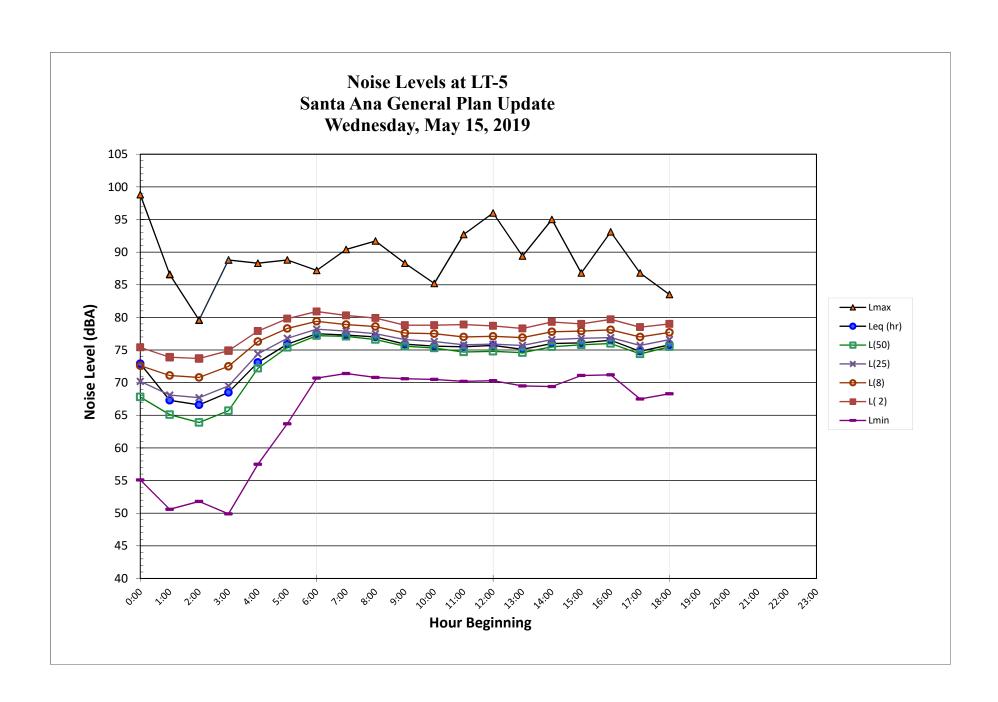












TRAFFIC NOISE INCREASE CALCULATIONS

| Traf | ic Noise Ca | alculator | : FHWA | 77-108 | | | Project Title: SNT-20 | - Existing | | | | | | | | | | | | | | |
|----------|----------------------|-----------------|-----------------|--------------|-----------------|-----------------|--|---|----------------|-----------------------|--------|----------------|-----------------|-------------------|--------------|------------|------------|--------------------|-------------------|-------------------------|----------------------|------------------|
| | d | IBA at 50 fee | Out et | | ce to CNEL (| Contour | | | | | Inputs | | | | | | | | | | Auto I | Inputs |
| ID | L _{eq-24hr} | L _{dn} | CNEL | 70 dBA | 65 dBA | 60 dBA | Roadway | Segment | ADT | Posted Speed Limit | Grade | % Autos | % Med Trucks | % Heavy Trucks | % Daytime | % Evening | % Night | Number of Lanes | Site Condition | Distance to Reciever | Ground Absorption | Lane Distance |
| 1 | 68.9 | 71.9 | 72.4 | 72 | 155 | 335 | 1st Street | Euclid Street to Ward Street | 25233 | 40 | 0 | 94.9% | 2.9% | 2.2% | 77% | 12% | 11% | 6 | Soft | 50 | 0.5 | 68 |
| 2 | 70.9 70.8 | 74.5 | 75.0 74.1 | 107 94 | 230 | 497 | Euclid Street | 1st Street to McFadden Avenue | 40731 30459 | 40 | 0 | 94.9% 94.9% | 2.9% 2.9% | 2.2% | 74% 78% | 12% 12% | 14% 10% | 6 6 | Soft Soft | 50 50 | 0.5 | 68 68 |
| 4 | 70.8 | 73.6 76.2 | 74.1 76.6 | 138 | 203 298 | 437 642 | Westminster Avenue Harbor Boulevard | Harbor Boulevard to Fairview Street Westminster Avenue/17th Street to Hazard Avenue | 54137 | 45 40 | 0 | 94.9% | 2.9% | 2.2% | 78% 71% | 12% | 17% | 6 | Soft | 50 | 0.5 0.5 | 68 |
| 5 | 70.0 | 73.4 | 73.8 | 90 | 194 | 419 | 1st Street | Harbor Boulevard to Jackson | 32736 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 12% | 13% | 6 | Soft | 50 | 0.5 | 68 |
| 6 | 70.4 | 73.4 | 73.9 | 92 | 197 | 425 | Edinger Avenue | Harbor Boulevard to Fairview Street | 27838 | 45 | 0 | 94.9% | 2.9% | 2.2% | 76% | 13% | 11% | 6 | Soft | 50 | 0.5 | 68 |
| 7 | 71.0 | 74.2 | 74.6 | 101 | 218 | 470 | Warner Avenue | Harbor Boulevard to Fairview Street | 31945 | 45 | 0 | 94.9% | 2.9% | 2.2% | 78% | 10% | 12% | 6 | Soft | 50 | 0.5 | 68 |
| 8 | 67.9 | 71.4 | 71.9 | 67 | 144 | 310 | Harbor Boulevard | Segerstrom Avenue to MacArthur Boulevard | 15622 | 45 | 0 | 94.9% | 2.9% | 2.2% | 74% | 12% | 14% | 6 | Soft | 50 | 0.5 | 68 |
| 10 | 72.2 70.5 | 74.8 73.6 | 75.5 74.1 | 116 94 | 250 203 | 538 438 | Fairview Street 1st Street | 1st Street to Willits Street Sullivan Street to Raitt Street | 42605 36377 | 45 40 | 0 | 94.9% 94.9% | 2.9% 2.9% | 2.2% | 77% 76% | 14% 12% | 9% 12% | 6 6 | Soft Soft | 50 50 | 0.5 0.5 | 68 68 |
| 11 | 70.3 | 76.3 | 76.8 | 142 | 305 | 658 | Bristol Street | 17th Street to Santa Clara Avenue | 45676 | 45 | 0 | 94.9% | 2.9% | 2.2% | 70% | 13% | 17% | 4 | Soft | 50 | 0.5 | 44 |
| 12 | 70.6 | 73.1 | 73.8 | 89 | 192 | 414 | 17th Street | College Avenue to Bristol Street | 37345 | 40 | 0 | 94.9% | 2.9% | 2.2% | 78% | 13% | 9% | 6 | Soft | 50 | 0.5 | 68 |
| 13 | 70.9 | 74.8 | 75.3 | 113 | 244 | 525 | Bristol Street | 17th Street to Washington Avenue | 42005 | 40 | 0 | 94.9% | 2.9% | 2.2% | 70% | 14% | 16% | 5 | Soft | 50 | 0.5 | 56 |
| 14 | 71.8 | 75.8 | 76.2 | 130 | 280 | 603 | Fairview Street | Trask Avenue to 17th Street | 40432 | 45 | 0 | 94.9% | 2.9% | 2.2% | 71% | 12% | 17% | 4 | Soft | 50 | 0.5 | 44 |
| 15 | 71.1 | 74.7 | 75.2 | 111 | 239 | 515 | Bristol Street | 1st Street to Bishop Street | 42663 | 40 | 0 | 94.9% | 2.9% | 2.2% | 73% | 13% | 14% | 6 | Soft | 50 | 0.5 | 68 |
| 16 17 | 65.9 65.2 | 68.7 68.8 | 69.1 69.2 | 43 45 | 94 96 | 202 207 | Civic Center Drive Flower Street | Bristol Street to Flower Street 1st Street to Bishop Street | 17589 15622 | 35 35 | 0 | 94.9% 94.9% | 2.9% | 2.2% | 81% 74% | 9% 12% | 10% 14% | 4 | Soft Soft | 50 50 | 0.5 0.5 | 44 20 |
| 18 | 68.5 | 72.0 | 72.5 | 73 | 158 | 340 | Main Street | 17th Street to 20th Street | 32044 | 35 | 0 | 94.9% | 2.9% | 2.2% | 74% | 12% | 14% | Δ | Soft | 50 | 0.5 | 44 |
| 19 | 67.4 | 71.1 | 71.6 | 64 | 137 | 296 | Main Street | Washington Street to Civic Center Drive | 33489 | 30 | 0 | 94.9% | 2.9% | 2.2% | 72% | 13% | 15% | 4 | Soft | 50 | 0.5 | 44 |
| 20 | 63.1 | 65.7 | 66.1 | 28 | 59 | 128 | Civic Center Drive | Flower Street to Ross Street | 17427 | 25 | 0 | 94.9% | 2.9% | 2.2% | 83% | 8% | 9% | 4 | Soft | 50 | 0.5 | 44 |
| 21 | 64.0 | 66.8 | 67.3 | 33 | 71 | 153 | Santa Ana Boulevard | Flower Street to Ross Street | 14689 | 30 | 0 | 94.9% | 2.9% | 2.2% | 80% | 10% | 10% | 6 | Soft | 50 | 0.5 | 68 |
| 22 | 71.1 | 74.9 | 75.3 | 113 | 243 | 525 | 1st Street | Main Street to Standard Avenue | 42699 | 40 | 0 | 94.9% | 2.9% | 2.2% | 73% | 12% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 23 | 68.2 | 71.8 | 72.2 | 70 | 152 | 326 | Main Street | 1st Street to Bishop Street | 30125 | 35 | 0 | 94.9% | 2.9% | 2.2% | 74% | 12% | 14% | 4 | Soft | 50 | 0.5 | 44 |
| 24 25 | 69.4 70.2 | 72.8 73.8 | 73.3 74.3 | 82 97 | 178 208 | 383 449 | Grand Avenue Grand Avenue | Santa Clara Avenue to Fairhaven Street Santa Ana Boulevard to 4th Street | 30206 36678 | 40 40 | 0 | 94.9% 94.9% | 2.9% | 2.2% | 75% 73% | 12% 13% | 13% 14% | 4 | Soft Soft | 50 50 | 0.5 0.5 | 44 44 |
| 26 | 64.7 | 67.3 | 67.8 | 36 | 77 | 166 | Santa Clara Avenue | Grand Avenue to Tustin Avenue | 10585 | 40 | 0 | 94.9% | 2.9% | 2.2% | 80% | 11% | 9% | 2 | Soft | 50 | 0.5 | 20 |
| 27 | 70.3 | 73.1 | 73.6 | 87 | 187 | 403 | Tustin Avenue | Santa Clara Avenue to Fairhaven Street | 35410 | 40 | 0 | 94.9% | 2.9% | 2.2% | 80% | 10% | 10% | 6 | Soft | 50 | 0.5 | 68 |
| 28 | 69.7 | 72.2 | 72.8 | 77 | 166 | 358 | 17th Street | Cabrillo Park Drive to Tustin Avenue | 32080 | 40 | 0 | 94.9% | 2.9% | 2.2% | 79% | 12% | 9% | 4 | Soft | 50 | 0.5 | 44 |
| 29 | 68.9 | 71.4 | 71.9 | 67 | 144 | 309 | Tustin Avenue | Fruit Street to 4th Street | 25174 | 40 | 0 | 94.9% | 2.9% | 2.2% | 82% | 9% | 9% | 6 | Soft | 50 | 0.5 | 68 |
| 30 | 69.4 | 73.1 | 73.5 | 86 | 186 | 400 | 1st Street | Grand Avenue to Elk Lane | 28638 | 40 | 0 | 94.9% | 2.9% | 2.2% | 74% | 11% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 31 32 | 68.3 71.7 | 71.5 75.4 | 71.9 75.8 | 67 122 | 145 263 | 312 566 | 1st Street Fairview Street | Cabrillo Park Drive to Tustin Avenue Edinger Avenue to Harvard Street | 22083 37524 | 40 45 | 0 | 94.9% 94.9% | 2.9% 2.9% | 2.2% | 77% 74% | 11% 11% | 12% 15% | 6 6 | Soft Soft | 50 50 | 0.5 0.5 | 68 68 |
| 33 | 71.7 | 75.4 75.7 | 76.0 | 126 | 272 | 586 | Fairview Street | Warner Avenue to Segerstrom Avenue | 39878 | 45 45 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 34 | 69.0 | 71.6 | 72.1 | 69 | 149 | 320 | MacArthur Boulevard | Harbor Boulevard to Fairview Street | 26235 | 40 | 0 | 94.9% | 2.9% | 2.2% | 81% | 10% | 9% | 6 | Soft | 50 | 0.5 | 68 |
| 35 | 68.1 | 71.4 | 72.0 | 68 | 147 | 317 | Edinger Avenue | Fairview Street to Greenvile Street | 29115 | 35 | 0 | 94.9% | 2.9% | 2.2% | 72% | 15% | 13% | 4 | Soft | 50 | 0.5 | 44 |
| 36 | 66.6 | 70.0 | 70.6 | 55 | 118 | 255 | McFadden Avenue | Fairview Street to Raitt Street | 20997 | 35 | 0 | 94.9% | 2.9% | 2.2% | 72% | 15% | 13% | 4 | Soft | 50 | 0.5 | 44 |
| 37 | 69.4 | 71.8 | 72.3 | 71 | 154 | 331 | MacArthur Boulevard | Fairview Street to Raitt Street | 28809 | 40 | 0 | 94.9% | 2.9% | 2.2% | 82% | 10% | 8% | 6 | Soft | 50 | 0.5 | 68 |
| 38 39 | 67.5 70.3 | 70.3 | 71.2 74.4 | 60 98 | 130 | 280 | Segerstrom Avenue Bristol Street | Fairview Street to Raitt Street | 19326 37238 | 40 40 | 0 | 94.9% 94.9% | 2.9% | 2.2% | 68% 73% | 22% | 10% 14% | 4 | Soft | 50 50 | 0.5 0.5 | 44 44 |
| 40 | 70.3 | 73.9 74.0 | 74.4 | 100 | 210 216 | 453 466 | Bristol Street | Edinger Avenue to Warner Avenue Warner Avenue to Segerstrom Avenue | 37238 | 40 | 0 | 94.9% | 2.9% | 2.2% | 73% 74% | 13% 13% | 13% | 6 | Soft Soft | 50 | 0.5 | 68 |
| 41 | 71.2 | 74.7 | 75.1 | 110 | 237 | 510 | Warner Avenue | Raitt Street to Bristol Street | 34555 | 45 | 0 | 94.9% | 2.9% | 2.2% | 76% | 10% | 14% | 5 | Soft | 50 | 0.5 | 56 |
| 42 | 70.2 | 73.8 | 74.3 | 97 | 208 | 449 | Bristol Street | MacArthur Boulevard to Sunflower Avenue | 34731 | 40 | 0 | 94.9% | 2.9% | 2.2% | 73% | 13% | 14% | 6 | Soft | 50 | 0.5 | 68 |
| 43 | 66.5 | 69.7 | 70.1 | 51 | 110 | 237 | Flower Street | Warner Avenue to Segerstrom Avenue | 15378 | 40 | 0 | 94.9% | 2.9% | 2.2% | 77% | 11% | 12% | 4 | Soft | 50 | 0.5 | 44 |
| 44 | 70.2 | 73.6 | 74.2 | 95 | 204 | 440 | Edinger Avenue | Flower Street to Main Street | 36534 | 40 | 0 | 94.9% | 2.9% | 2.2% | 73% | 14% | 13% | 4 | Soft | 50 | 0.5 | 44 |
| 45 46 | 68.0 67.9 | 71.5 71.8 | 72.0 | 68 | 146 | 314 325 | Main Street Main Street | McFadden Avenue to Edinger Avenue | 28622 27972 | 35 | 0 | 94.9% 94.9% | 2.9% 2.9% | 2.2% | 75% 72% | 11% 12% | 14% 16% | 4 | Soft Soft | 50 50 | 0.5 0.5 | 44 44 |
| 46 | 69.5 | 73.3 | 72.2 73.6 | 70 87 | 151 188 | 325 406 | Main Street | Edinger Avenue to Warner Avenue Warner Avenue to Dyer Road | 30484 | 35 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 5 | Soft | 50 | 0.5 | 56 |
| 48 | 68.2 | 71.6 | 72.0 | 68 | 146 | 315 | Segerstrom Avenue | Bristol Street to Flower Street | 22959 | 40 | 0 | 94.9% | 2.9% | 2.2% | 77% | 10% | 13% | 4 | Soft | 50 | 0.5 | 44 |
| 49 | 70.6 | 73.8 | 74.3 | 97 | 208 | 448 | MacArthur Boulevard | Flower Street to Main Street | 37946 | 40 | 0 | 94.9% | 2.9% | 2.2% | 77% | 11% | 12% | 6 | Soft | 50 | 0.5 | 68 |
| 50 | 69.7 | 72.7 | 73.1 | 80 | 173 | 372 | Main Street | MacArthur Boulevard to Sunflower Avenue | 23692 | 45 | 0 | 94.9% | 2.9% | 2.2% | 80% | 9% | 11% | 6 | Soft | 50 | 0.5 | 68 |
| 51 | 68.4 | 71.0 | 71.1 | 59 | 127 | 273 | Grand Avenue | Edinger Avenue to Warner Avenue | 17735 | 45 | 0 | 94.9% | 2.9% | 2.2% | 90% | 1% | 9% | 6 | Soft | 50 | 0.5 | 68 |
| 52 | 72.0 | 75.7 | 76.1 | 127 | 273 | 589 | Edinger Avenue | Richie Street to Newport Avenue | 40435 | 45 | 0 | 94.9% | 2.9% | 2.2% | 76% | 9% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 53 54 | 69.4 69.0 | 72.8 72.5 | 73.1 72.9 | 80 78 | 172 169 | 372 363 | Warner Avenue Warner Avenue | Grand Avenue to Red Hill Avenue Main Street to Standard Avenue | 22435 27391 | 45 40 | 0 | 94.9% 94.9% | 2.9% 2.9% | 2.2% | 81% 76% | 6% 10% | 13% 14% | 6 | Soft Soft | 50 50 | 0.5 0.5 | 68 44 |
| 55 | 67.3 | 70.1 | 70.7 | 56 | 120 | 259 | McFadden Avenue | Newhope Street to Harbor Boulevard | 18495 | 40 | 0 | 94.9% | 2.9% | 2.2% | 76% | 14% | 10% | 4 | Soft | 50 | 0.5 | 44 |
| 56 | 66.5 | 70.2 | 70.6 | 55 | 118 | 254 | McFadden Avenue | Standard Avenue to Grand Avenue | 20188 | 35 | 0 | 94.9% | 2.9% | 2.2% | 74% | 11% | 15% | 4 | Soft | 50 | 0.5 | 44 |
| 57 | 69.8 | 73.7 | 74.1 | 93 | 201 | 433 | Dyer Road | Red Hill Avenue to Pullman Street | 31248 | 40 | 0 | 94.9% | 2.9% | 2.2% | 73% | 11% | 16% | 6 | Soft | 50 | 0.5 | 68 |
| 58 | 63.8 | 67.5 | 68.0 | 37 | 79 | 170 | McFadden Avenue | Bristol Street to Flower Street | 14951 | 30 | 0 | 94.9% | 2.9% | 2.2% | 71% | 14% | 15% | 2 | Soft | 50 | 0.5 | 20 |
| 59 | 69.8 | 73.5 | 73.8 | 90 | 195 | 419 | Main Street | La Veta Avenue to Memory Lane | 31004 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 60 61 | 70.8 #NUM! | 74.3 #NUM! | 74.8 #NUM! | 104 #NUM! | 224 #NUM! | 482 #NUM! | 1st Street | Bristol Street to Flower Street | 39006 | 40 | 0 | 94.9% | 2.9% | 2.2% | 74% | 12% | 14% | 6 | Soft | 50 | 0.5 0 | 68 #N/A |
| 62 | #NUIVI! 83.5 | #NUIVI! 86.9 | #NUIVI! 87.3 | #NUM! 714 | #NUIVI! 1538 | #NUIVI! 3314 | I-5 | Chapman Ave. to Katella Ave. | 248200 | 60 | 0 | 90.4% | 6.0% | 3.6% | 76% | 11% | 13% | 6 | Soft | 50 | 0.5 | #IN/A 68 |
| 63 | 84.9 | 88.3 | 88.7 | 885 | 1907 | 4109 | I-5 | SR-22 to Main St. | 377100 | 60 | 0 | 93.7% | 3.1% | 3.2% | 76% | 11% | 13% | 6 | Soft | 50 | 0.5 | 68 |
| 1 | 84.8 | 88.2 | 88.6 | 875 | 1884 | 4059 | I | 17th Ct /D 18/ t- C 1 4 | | | | | | | 76% | 11% | | 6 | C-64 | | 0.5 | 68 |
| 64 | 04.0 | 00.2 | 00.0 | 0/3 | 1004 | 4059 | I-5 | 17th St./Penn Way to Grand Ave. | 370300 | 60 | 0 | 93.7% | 3.1% | 3.2% | 76% | 11% | 13% | ь | Soft | 50 | 0.5 | 00 |

| 66 | 84.3 | 87.6 | 88.1 | 803 | 1730 | 3728 | I-5 | Newport Ave. to Red Hill Ave. | 334100 | 60 | 0 | 94.5% | 2.4% | 3.1% | 76% | 11% | 13% | 6 | Soft | 50 | 0.5 | 68 |
|----|------|------|------|-----|------|------|-------|-------------------------------|--------|----|---|-------|------|------|-----|-----|-----|---|------|----|-----|----|
| 67 | 83.3 | 86.7 | 87.1 | 692 | 1490 | 3211 | I-405 | Brookhurst Ave. to Euclid St. | 300100 | 60 | 0 | 96.5% | 1.7% | 1.8% | 76% | 11% | 13% | 6 | Soft | 50 | 0.5 | 68 |
| 68 | 83.6 | 87.0 | 87.4 | 725 | 1562 | 3365 | I-405 | Euclid St. to Harbor Blvd. | 321900 | 60 | 0 | 96.5% | 1.7% | 1.8% | 76% | 11% | 13% | 6 | Soft | 50 | 0.5 | 68 |
| 69 | 83.3 | 86.7 | 87.1 | 694 | 1494 | 3219 | I-405 | Harbor Blvd. to SR-73 | 301300 | 60 | 0 | 96.5% | 1.7% | 1.8% | 76% | 11% | 13% | 6 | Soft | 50 | 0.5 | 68 |
| 70 | 82.6 | 85.9 | 86.4 | 620 | 1336 | 2878 | I-405 | Bristol St. to SR-55 | 246400 | 60 | 0 | 95.7% | 2.3% | 2.0% | 76% | 11% | 13% | 6 | Soft | 50 | 0.5 | 68 |
| 71 | 83.3 | 86.6 | 87.1 | 687 | 1481 | 3191 | I-405 | SR-55 to MacArthur Blvd. | 287700 | 60 | 0 | 95.7% | 2.3% | 2.0% | 76% | 11% | 13% | 6 | Soft | 50 | 0.5 | 68 |
| 72 | 83.4 | 86.8 | 87.3 | 708 | 1525 | 3286 | SR-55 | 4th St to 17th Street | 267300 | 60 | 0 | 93.0% | 4.0% | 3.0% | 76% | 11% | 13% | 6 | Soft | 50 | 0.5 | 68 |
| 73 | 84.0 | 87.3 | 87.8 | 765 | 1647 | 3549 | SR-55 | Edginer Ave. to Dyer Rd. | 297300 | 60 | 0 | 92.8% | 4.1% | 3.1% | 76% | 11% | 13% | 6 | Soft | 50 | 0.5 | 68 |
| 74 | 83.2 | 86.6 | 87.0 | 683 | 1471 | 3169 | SR-55 | Dyer Rd. to MacArthur Blvd. | 285700 | 60 | 0 | 95.3% | 3.0% | 1.7% | 76% | 11% | 13% | 6 | Soft | 50 | 0.5 | 68 |
| 75 | 82.3 | 85.6 | 86.1 | 589 | 1269 | 2734 | SR-55 | MacArthur Blvd. to I-405 | 228900 | 60 | 0 | 95.3% | 3.0% | 1.7% | 76% | 11% | 13% | 6 | Soft | 50 | 0.5 | 68 |
| 76 | 80.7 | 84.1 | 84.5 | 463 | 998 | 2150 | SR-55 | I-405 to SR-73 | 159700 | 60 | 0 | 95.3% | 3.0% | 1.7% | 76% | 11% | 13% | 6 | Soft | 50 | 0.5 | 68 |
| 77 | 82.3 | 85.6 | 86.1 | 590 | 1271 | 2738 | SR-22 | Euclid St. to Harbor Blvd. | 223100 | 60 | 0 | 94.3% | 4.0% | 1.7% | 76% | 11% | 13% | 6 | Soft | 50 | 0.5 | 68 |
| 78 | 82.5 | 85.8 | 86.3 | 608 | 1310 | 2822 | SR-22 | The City Dr. to Bristol St. | 242600 | 60 | 0 | 95.5% | 2.9% | 1.6% | 76% | 11% | 13% | 6 | Soft | 50 | 0.5 | 68 |
| 79 | 80.4 | 83.8 | 84.2 | 443 | 955 | 2058 | SR-22 | I-5 to Main St. | 151100 | 60 | 0 | 95.5% | 2.9% | 1.6% | 76% | 11% | 13% | 6 | Soft | 50 | 0.5 | 68 |
| 80 | 80.1 | 83.4 | 83.9 | 422 | 908 | 1956 | SR-22 | Glassell St. to Tustin Ave. | 146100 | 60 | 0 | 96.6% | 2.0% | 1.4% | 76% | 11% | 13% | 6 | Soft | 50 | 0.5 | 68 |

| Traff | ic Noise Ca | alculator | : FHWA 7 | 77-108 | | | Project Title: SNT-20 | - 2045 GP Buildout 80% | | | | | | | | | | | | | | |
|----------|----------------------|-----------------|-----------------|-------------|--------------|--------------|--|---|----------------|-----------------------|--------|----------------|-----------------|-------------------|--------------|------------|------------|-----------------|-------------------|-------------------------|----------------------|------------------|
| | d | BA at 50 fee | Out et | | ce to CNEL (| Contour | | | | | Inputs | | | | | | | | | | Auto I | Inputs |
| ID | L _{eq-24hr} | L _{dn} | CNEL | 70 dBA | 65 dBA | 60 dBA | Roadway | Segment | ADT | Posted Speed Limit | Grade | % Autos | % Med Trucks | % Heavy Trucks | % Daytime | % Evening | % Night | Number of Lanes | Site Condition | Distance to Reciever | Ground Absorption | Lane Distance |
| 1 | 67.6 | 71.3 | 71.7 | 64 | 139 | 299 | 1st Street | Euclid Street to Ward Street | 18700 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 2 | 70.2 | 73.9 | 74.3 | 96 73 | 207 | 446 | Euclid Street | 1st Street to McFadden Avenue | 34000 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% 75% | 10% | 15% | 6 | Soft | 50 50 | 0.5 | 68 |
| 3 | 68.3 70.4 | 72.1 74.1 | 72.4 74.5 | 100 | 157 216 | 337 465 | Westminster Avenue Harbor Boulevard | Harbor Boulevard to Fairview Street Westminster Avenue/17th Street to Hazard Avenue | 17400 36200 | 45 40 | 0 | 94.9% 94.9% | 2.9% 2.9% | 2.2% | 75% 75% | 10% 10% | 15% 15% | 6 6 | Soft Soft | 50 50 | 0.5 0.5 | 68 68 |
| 5 | 68.5 | 72.2 | 72.6 | 74 | 160 | 344 | 1st Street | Harbor Boulevard to Jackson | 23100 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 6 | 69.6 | 73.3 | 73.7 | 88 | 190 | 410 | Edinger Avenue | Harbor Boulevard to Fairview Street | 23300 | 45 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 7 | 70.1 | 73.8 | 74.2 | 96 | 206 | 444 | Warner Avenue | Harbor Boulevard to Fairview Street | 26300 | 45 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 8 | 73.5 | 77.2 | 77.6 | 160 | 345 | 743 | Harbor Boulevard | Segerstrom Avenue to MacArthur Boulevard | 56900 | 45 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 9 | 71.8 | 75.5 | 75.9 | 124 | 266 | 574 | Fairview Street | 1st Street to Willits Street | 38600 | 45 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 10 11 | 69.1 72.1 | 72.8 75.8 | 73.2 76.2 | 82 130 | 176 280 | 378 602 | 1st Street Bristol Street | Sullivan Street to Raitt Street 17th Street to Santa Clara Avenue | 26600 41500 | 40 45 | 0 | 94.9% 94.9% | 2.9% 2.9% | 2.2% | 75% 75% | 10% 10% | 15% 15% | 6 6 | Soft Soft | 50 50 | 0.5 0.5 | 68 68 |
| 12 | 69.5 | 73.3 | 73.6 | 87 | 188 | 405 | 17th Street | College Avenue to Bristol Street | 29500 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 13 | 71.4 | 75.1 | 75.5 | 116 | 250 | 538 | Bristol Street | 17th Street to Washington Avenue | 45100 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 14 | 72.8 | 76.5 | 76.9 | 143 | 308 | 665 | Fairview Street | Trask Avenue to 17th Street | 48100 | 45 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 15 | 71.7 | 75.5 | 75.8 | 122 | 264 | 569 | Bristol Street | 1st Street to Bishop Street | 49000 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 16 | 66.1 | 69.8 | 70.2 | 52 | 111 | 240 | Civic Center Drive | Bristol Street to Flower Street | 18600 | 35 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 4 | Soft | 50 | 0.5 | 44 |
| 17 | 61.7 | 65.4 | 65.8 | 26 | 56 | 121 | Flower Street | 1st Street to Bishop Street | 6900 | 35 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 2 | Soft | 50 | 0.5 | 20 |
| 18 19 | 70.0 64.9 | 73.7 | 74.1 | 94 | 202 | 435 | Main Street | 17th Street to 20th Street | 43000 19000 | 35 30 | 0 | 94.9% 94.9% | 2.9% 2.9% | 2.2% | 75% 75% | 10% 10% | 15% 15% | 6 4 | Soft Soft | 50 | 0.5 0.5 | 68 44 |
| 20 | 60.8 | 68.6 64.5 | 69.0 64.9 | 43 23 | 93 49 | 199 106 | Main Street Civic Center Drive | Washington Street to Civic Center Drive Flower Street to Ross Street | 10200 | 25 | 0 | 94.9% | 2.9% | 2.2% | 75% 75% | 10% | 15% | 4 | Soft | 50 50 | 0.5 | 44 |
| 21 | 64.1 | 67.8 | 68.2 | 38 | 82 | 176 | Santa Ana Boulevard | Flower Street to Ross Street | 15800 | 30 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 4 | Soft | 50 | 0.5 | 44 |
| 22 | 69.8 | 73.5 | 73.9 | 91 | 195 | 420 | 1st Street | Main Street to Standard Avenue | 32900 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 4 | Soft | 50 | 0.5 | 44 |
| 23 | 68.3 | 72.0 | 72.4 | 72 | 155 | 333 | Main Street | 1st Street to Bishop Street | 30500 | 35 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 4 | Soft | 50 | 0.5 | 44 |
| 24 | 69.8 | 73.5 | 73.9 | 90 | 195 | 420 | Grand Avenue | Santa Clara Avenue to Fairhaven Street | 31100 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 25 | 70.3 | 74.0 | 74.4 | 98 | 211 | 454 | Grand Avenue | Santa Ana Boulevard to 4th Street | 35000 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 26 27 | 63.9 67.9 | 67.6 | 68.0 72.0 | 37 | 79 147 | 170 | Santa Clara Avenue | Grand Avenue to Tustin Avenue | 8700 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 2 | Soft | 50 50 | 0.5 0.5 | 20 |
| 28 | 70.2 | 71.6 73.9 | 72.0 74.3 | 68 97 | 209 | 317 451 | Tustin Avenue 17th Street | Santa Clara Avenue to Fairhaven Street Cabrillo Park Drive to Tustin Avenue | 20400 34600 | 40 40 | 0 | 94.9% 94.9% | 2.9% 2.9% | 2.2% | 75% 75% | 10% 10% | 15% 15% | 6 6 | Soft Soft | 50 | 0.5 | 68 68 |
| 29 | 69.3 | 73.0 | 73.4 | 85 | 182 | 392 | Tustin Avenue | Fruit Street to 4th Street | 28100 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 30 | 69.5 | 73.2 | 73.6 | 87 | 187 | 402 | 1st Street | Grand Avenue to Elk Lane | 30800 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 4 | Soft | 50 | 0.5 | 44 |
| 31 | 66.2 | 70.0 | 70.3 | 53 | 114 | 245 | 1st Street | Cabrillo Park Drive to Tustin Avenue | 14600 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 4 | Soft | 50 | 0.5 | 44 |
| 32 | 72.5 | 76.2 | 76.6 | 137 | 296 | 637 | Fairview Street | Edinger Avenue to Harvard Street | 45100 | 45 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 33 | 72.2 | 75.9 | 76.2 | 130 | 281 | 605 | Fairview Street | Warner Avenue to Segerstrom Avenue | 41800 | 45 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 34 | 70.0 | 73.7 | 74.1 | 93 | 201 | 433 | MacArthur Boulevard | Harbor Boulevard to Fairview Street | 32600 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 6 | Soft | 50 50 | 0.5 | 68 |
| 35 36 | 67.1 62.4 | 70.8 66.1 | 71.2 66.5 | 60 29 | 130 63 | 280 136 | Edinger Avenue McFadden Avenue | Fairview Street to Greenvile Street Fairview Street to Raitt Street | 22200 8200 | 35 35 | 0 | 94.9% 94.9% | 2.9% 2.9% | 2.2% | 75% 75% | 10% 10% | 15% 15% | 2 | Soft Soft | 50 | 0.5 0.5 | 68 20 |
| 37 | 69.5 | 73.2 | 73.5 | 86 | 186 | 400 | MacArthur Boulevard | Fairview Street to Raitt Street | 28900 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 38 | 69.6 | 73.3 | 73.6 | 88 | 189 | 406 | Segerstrom Avenue | Fairview Street to Raitt Street | 29600 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 39 | 72.2 | 75.9 | 76.3 | 132 | 283 | 610 | Bristol Street | Edinger Avenue to Warner Avenue | 54500 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 40 | 71.4 | 75.1 | 75.4 | 115 | 249 | 536 | Bristol Street | Warner Avenue to Segerstrom Avenue | 44800 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 41 | 69.4 | 73.1 | 73.5 | 86 | 185 | 398 | Warner Avenue | Raitt Street to Bristol Street | 22300 | 45 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 42 | 71.9 | 75.6 | 76.0 | 125 | 270 | 582 | Bristol Street | MacArthur Boulevard to Sunflower Avenue | 50800 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 43 44 | 69.8 68.9 | 73.5 72.6 | 73.9 72.9 | 91 79 | 197 169 | 424 365 | Flower Street Edinger Avenue | Warner Avenue to Segerstrom Avenue Flower Street to Main Street | 33300 25200 | 40 40 | 0 | 94.9% 94.9% | 2.9% 2.9% | 2.2% | 75% 75% | 10% 10% | 15% 15% | 4 6 | Soft Soft | 50 50 | 0.5 0.5 | 44 68 |
| 45 | 67.8 | 71.5 | 71.9 | 67 | 144 | 311 | Main Street | McFadden Avenue to Edinger Avenue | 27500 | 35 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 4 | Soft | 50 | 0.5 | 44 |
| 46 | 69.3 | 73.1 | 73.4 | 85 | 183 | 393 | Main Street | Edinger Avenue to Warner Avenue | 38200 | 35 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 5 | Soft | 50 | 0.5 | 56 |
| 47 | 70.7 | 74.4 | 74.8 | 104 | 225 | 485 | Main Street | Warner Avenue to Dyer Rd | 38600 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 48 | 69.0 | 72.7 | 73.1 | 80 | 173 | 372 | Segerstrom Avenue | Bristol Street to Flower Street | 25900 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 49 | 70.8 | 74.6 | 74.9 | 107 | 230 | 495 | MacArthur Boulevard | Flower Street to Main Street | 39800 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 50 51 | 70.6 | 74.3 | 74.7 | 102 | 220 | 474 | Main Street | MacArthur Boulevard to Sunflower Avenue | 29000 | 45 45 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 51 52 | 71.7 72.9 | 75.4 76.6 | 75.7 77.0 | 121 146 | 260 315 | 561 679 | Grand Avenue Edinger Avenue | Edinger Avenue to Warner Avenue Richie Street to Newport Avenue | 37300 49700 | 45 45 | 0 | 94.9% 94.9% | 2.9% 2.9% | 2.2% | 75% 75% | 10% 10% | 15% 15% | 6 6 | Soft Soft | 50 50 | 0.5 0.5 | 68 68 |
| 53 | 72.9 | 75.0 | 75.4 | 115 | 248 | 534 | Warner Avenue | Grand Avenue to Red Hill Avenue | 34600 | 45 45 | 0 | 94.9% | 2.9% | 2.2% | 75% 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 54 | 68.6 | 72.3 | 72.7 | 76 | 164 | 352 | Warner Avenue | Main Street to Standard Avenue | 23900 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 55 | 64.0 | 67.7 | 68.1 | 37 | 80 | 173 | McFadden Avenue | Newhope Street to Harbor Boulevard | 8700 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 4 | Soft | 50 | 0.5 | 44 |
| 56 | 62.6 | 66.3 | 66.7 | 30 | 65 | 140 | McFadden Avenue | Standard Avenue to Grand Avenue | 8600 | 35 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 2 | Soft | 50 | 0.5 | 20 |
| 57 | 73.9 | 77.6 | 78.0 | 171 | 368 | 793 | Dyer Road | Red Hill Avenue to Pullman Street | 80700 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 58 | 62.7 | 66.4 | 66.8 | 31 | 66 | 142 | McFadden Avenue | Bristol Street to Flower Street | 11800 | 30 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 2 | Soft | 50 | 0.5 | 20 |
| 59 | 71.8 68.7 | 75.6 | 75.9 | 124 | 268 | 578 | Main Street | La Veta Avenue to Memory Lane | 50200 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 60 61 | 68.7 #NUM! | 72.4 #NUM! | 72.8 #NUM! | 77 #NUM! | 165 #NUM! | 356 #NUM! | 1st Street | Bristol Street to Flower Street | 25700 | 40 | 0 | 94.9% | 2.9% | 2.2% | 75% | 10% | 15% | 4 | Soft | 50 | 0.5 | 44 #N/A |
| 62 | #NOIVI | 88.0 | #NOIVI! 88.4 | 838 | 1804 | 3888 | 1-5 | Chapman Ave. to Katella Ave. | 295846 | 60 | 0 | 90.4% | 6.0% | 3.6% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | #N/A 68 |
| 63 | 84.4 | 88.2 | 88.5 | 860 | 1853 | 3992 | I-5 | SR-22 to Main St. | 338810 | 60 | 0 | 93.7% | 3.1% | 3.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| | 85.3 | 89.0 | 89.4 | 975 | 2101 | 4526 | 1-5 | 17th St./Penn Way to Grand Ave. | 409068 | 60 | 0 | 93.7% | 3.1% | 3.2% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 |
| 64 | 65.5 | 05.0 | | | -101 | | | | 103000 | 00 | | 33.770 | | | | | | | | 50 | 0.5 | |

| - 1 | 66 | 84.8 | 88.5 | 88.9 | 907 | 1953 | 4208 | I-5 | Newport Ave. to Red Hill Ave. | 375987 | 60 | 0 | 94.5% | 2.4% | 3.1% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 | l |
|-----|----|------|------|------|-----|------|------|-------|-------------------------------|--------|----|---|-------|------|------|-----|-----|-----|---|------|----|-----|----|---|
| | 67 | 84.0 | 87.7 | 88.1 | 803 | 1729 | 3726 | I-405 | Brookhurst Ave. to Euclid St. | 351979 | 60 | 0 | 96.5% | 1.7% | 1.8% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 | 1 |
| | 68 | 84.5 | 88.2 | 88.6 | 862 | 1858 | 4003 | I-405 | Euclid St. to Harbor Blvd. | 391915 | 60 | 0 | 96.5% | 1.7% | 1.8% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 | 1 |
| | 69 | 84.2 | 87.9 | 88.3 | 831 | 1791 | 3859 | I-405 | Harbor Blvd. to SR-73 | 370931 | 60 | 0 | 96.5% | 1.7% | 1.8% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 | 1 |
| | 70 | 82.5 | 86.2 | 86.6 | 640 | 1378 | 2968 | I-405 | Bristol St. to SR-55 | 242220 | 60 | 0 | 95.7% | 2.3% | 2.0% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 | 1 |
| | 71 | 84.1 | 87.8 | 88.2 | 819 | 1766 | 3804 | I-405 | SR-55 to MacArthur Blvd. | 351350 | 60 | 0 | 95.7% | 2.3% | 2.0% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 | 1 |
| | 72 | 83.7 | 87.4 | 87.8 | 766 | 1650 | 3555 | SR-55 | 4th St to 17th Street | 282301 | 60 | 0 | 93.0% | 4.0% | 3.0% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 | 1 |
| | 73 | 84.3 | 88.1 | 88.4 | 847 | 1825 | 3932 | SR-55 | Edginer Ave. to Dyer Rd. | 325314 | 60 | 0 | 92.8% | 4.1% | 3.1% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 | 1 |
| | 74 | 83.3 | 87.0 | 87.4 | 718 | 1547 | 3334 | SR-55 | Dyer Rd. to MacArthur Blvd. | 289242 | 60 | 0 | 95.3% | 3.0% | 1.7% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 | 1 |
| | 75 | 83.2 | 86.9 | 87.3 | 709 | 1527 | 3289 | SR-55 | MacArthur Blvd. to I-405 | 283503 | 60 | 0 | 95.3% | 3.0% | 1.7% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 | 1 |
| | 76 | 80.8 | 84.5 | 84.9 | 489 | 1054 | 2271 | SR-55 | I-405 to SR-73 | 162679 | 60 | 0 | 95.3% | 3.0% | 1.7% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 | 1 |
| | 77 | 82.3 | 86.0 | 86.4 | 617 | 1330 | 2866 | SR-22 | Euclid St. to Harbor Blvd. | 224252 | 60 | 0 | 94.3% | 4.0% | 1.7% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 | 1 |
| | 78 | 80.1 | 83.8 | 84.2 | 441 | 949 | 2045 | SR-22 | The City Dr. to Bristol St. | 140466 | 60 | 0 | 95.5% | 2.9% | 1.6% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 | 1 |
| | 79 | 81.1 | 84.8 | 85.2 | 515 | 1110 | 2391 | SR-22 | I-5 to Main St. | 177513 | 60 | 0 | 95.5% | 2.9% | 1.6% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 | 1 |
| | 80 | 80.2 | 83.9 | 84.3 | 446 | 961 | 2070 | SR-22 | Glassell St. to Tustin Ave. | 149143 | 60 | 0 | 96.6% | 2.0% | 1.4% | 75% | 10% | 15% | 6 | Soft | 50 | 0.5 | 68 | 1 |

| Roadway | Segment | Existing ADT | Future ADT | Existing Traffic Noise | Future Traffic Noise | Increase |
|-----------------------|---|--------------|------------|------------------------|----------------------|----------|
| 1st Street | Euclid Street to Ward Street | 25,233 | 18,700 | 72.4 | 71.7 | -0.7 |
| Euclid Street | 1st Street to McFadden Avenue | 40,731 | 34,000 | 75.0 | 74.3 | -0.7 |
| Westminster Avenue | Harbor Boulevard to Fairview Street | 30,459 | 17,400 | 74.1 | 72.4 | -1.7 |
| Harbor Boulevard | Westminster Avenue/17th Street to Hazard Avenue | 54,137 | 36,200 | 76.6 | 74.5 | -2.1 |
| 1st Street | Harbor Boulevard to Jackson | 32,736 | 23,100 | 73.8 | 72.6 | -1.3 |
| Edinger Avenue | Harbor Boulevard to Fairview Street | 27,838 | 23,300 | 73.9 | 73.7 | -0.2 |
| Warner Avenue | Harbor Boulevard to Fairview Street | 31,945 | 26,300 | 74.6 | 74.2 | -0.4 |
| Harbor Boulevard | Segerstrom Avenue to MacArthur Boulevard | 15,622 | 56,900 | 71.9 | 77.6 | 5.7 |
| Fairview Street | 1st Street to Willits Street | 42,605 | 38,600 | 75.5 | 75.9 | 0.4 |
| 1st Street | Sullivan Street to Raitt Street | 36,377 | 26,600 | 74.1 | 73.2 | -1.0 |
| Bristol Street | 17th Street to Santa Clara Avenue | 45,676 | 41,500 | 76.8 | 76.2 | -0.6 |
| 17th Street | College Avenue to Bristol Street | 37,345 | 29,500 | 73.8 | 73.6 | -0.1 |
| Bristol Street | 17th Street to Washington Avenue | 42,005 | 45,100 | 75.3 | 75.5 | 0.2 |
| Fairview Street | Trask Avenue to 17th Street | 40,432 | 48,100 | 76.2 | 76.9 | 0.6 |
| Bristol Street | 1st Street to Bishop Street | 42,663 | 49,000 | 75.2 | 75.8 | 0.6 |
| Civic Center Drive | Bristol Street to Flower Street | 17,589 | 18,600 | 69.1 | 70.2 | 1.1 |
| Flower Street | 1st Street to Bishop Street | 15,622 | 6,900 | 69.2 | 65.8 | -3.5 |
| Main Street | 17th Street to 20th Street | 32,044 | 43,000 | 72.5 | 74.1 | 1.6 |
| Main Street | Washington Street to Civic Center Drive | 33,489 | 19,000 | 71.6 | 69.0 | -2.6 |
| Civic Center Drive | Flower Street to Ross Street | 17,427 | 10,200 | 66.1 | 64.9 | -1.2 |
| Santa Ana Boulevard | Flower Street to Ross Street | 14,689 | 15,800 | 67.3 | 68.2 | 0.9 |
| 1st Street | Main Street to Standard Avenue | 42,699 | 32,900 | 75.3 | 73.9 | -1.4 |
| Main Street | 1st Street to Bishop Street | 30,125 | 30,500 | 72.2 | 72.4 | 0.1 |
| Grand Avenue | Santa Clara Avenue to Fairhaven Street | 30,206 | 31,100 | 73.3 | 73.9 | 0.6 |
| Grand Avenue | Santa Ana Boulevard to 4th Street | 36,678 | 35,000 | 74.3 | 74.4 | 0.1 |
| Santa Clara Avenue | Grand Avenue to Tustin Avenue | 10,585 | 8,700 | 67.8 | 68.0 | 0.1 |
| Tustin Avenue | Santa Clara Avenue to Fairhaven Street | 35,410 | 20,400 | 73.6 | 72.0 | -1.6 |
| 17th Street | Cabrillo Park Drive to Tustin Avenue | 32,080 | 34,600 | 72.8 | 74.3 | 1.5 |
| Tustin Avenue | Fruit Street to 4th Street | 25,174 | 28,100 | 71.9 | 73.4 | 1.6 |
| 1st Street | Grand Avenue to Elk Lane | 28,638 | 30,800 | 73.5 | 73.6 | 0.0 |
| 1st Street | Cabrillo Park Drive to Tustin Avenue | 22,083 | 14,600 | 71.9 | 70.3 | -1.6 |
| Fairview Street | Edinger Avenue to Harvard Street | 37,524 | 45,100 | 75.8 | 76.6 | 0.8 |
| Fairview Street | Warner Avenue to Segerstrom Avenue | 39,878 | 41,800 | 76.0 | 76.2 | 0.2 |
| MacArthur Boulevard | Harbor Boulevard to Fairview Street | 26,235 | 32,600 | 72.1 | 74.1 | 2.0 |
| Edinger Avenue | Fairview Street to Greenvile Street | 29,115 | 22,200 | 72.0 | 71.2 | -0.8 |
| McFadden Avenue | Fairview Street to Raitt Street | 20,997 | 8,200 | 70.6 | 66.5 | -4.1 |
| MacArthur Boulevard | Fairview Street to Raitt Street | 28,809 | 28,900 | 72.3 | 73.5 | 1.2 |
| Segerstrom Avenue | Fairview Street to Raitt Street | 19,326 | 29,600 | 71.2 | 73.6 | 2.4 |
| Bristol Street | Edinger Avenue to Warner Avenue | 37,238 | 54,500 | 74.4 | 76.3 | 1.9 |
| Bristol Street | Warner Avenue to Segerstrom Avenue | 38,007 | 44,800 | 74.5 | 75.4 | 0.9 |
| Warner Avenue | Raitt Street to Bristol Street | 34,555 | 22,300 | 75.1 | 73.5 | -1.6 |
| Bristol Street | MacArthur Boulevard to Sunflower Avenue | 34,731 | 50,800 | 74.3 | 76.0 | 1.7 |
| Flower Street | Warner Avenue to Segerstrom Avenue | 15,378 | 33,300 | 70.1 | 73.9 | 3.8 |
| Edinger Avenue | Flower Street to Main Street | 36,534 | 25,200 | 74.2 | 72.9 | -1.2 |
| Main Street | McFadden Avenue to Edinger Avenue | 28,622 | 27,500 | 72.0 | 71.9 | -0.1 |
| Main Street | Edinger Avenue to Warner Avenue | 27,972 | 38,200 | 72.2 | 73.4 | 1.2 |
| Widin Street | Edinger Avenue to Warner Avenue | 1 21,312 | 30,200 | , 2.2 | , 3.4 | 1.2 |

| Main Street | Warner Avenue to Dyer Rd | 30,484 | 38,600 | 73.6 | 74.8 | 1.2 |
|---------------------|---|--------|--------|------|------|------|
| Segerstrom Avenue | Bristol Street to Flower Street | 22,959 | 25,900 | 72.0 | 73.1 | 1.1 |
| MacArthur Boulevard | Flower Street to Main Street | 37,946 | 39,800 | 74.3 | 74.9 | 0.6 |
| Main Street | MacArthur Boulevard to Sunflower Avenue | 23,692 | 29,000 | 73.1 | 74.7 | 1.6 |
| Grand Avenue | Edinger Avenue to Warner Avenue | 17,735 | 37,300 | 71.1 | 75.7 | 4.7 |
| Edinger Avenue | Richie Street to Newport Avenue | 40,435 | 49,700 | 76.1 | 77.0 | 0.9 |
| Warner Avenue | Grand Avenue to Red Hill Avenue | 22,435 | 34,600 | 73.1 | 75.4 | 2.4 |
| Warner Avenue | Main Street to Standard Avenue | 27,391 | 23,900 | 72.9 | 72.7 | -0.2 |
| McFadden Avenue | Newhope Street to Harbor Boulevard | 18,495 | 8,700 | 70.7 | 68.1 | -2.6 |
| McFadden Avenue | Standard Avenue to Grand Avenue | 20,188 | 8,600 | 70.6 | 66.7 | -3.9 |
| Dyer Road | Red Hill Avenue to Pullman Street | 31,248 | 80,700 | 74.1 | 78.0 | 3.9 |
| McFadden Avenue | Bristol Street to Flower Street | 14,951 | 11,800 | 68.0 | 66.8 | -1.2 |
| Main Street | La Veta Avenue to Memory Lane | 31,004 | 50,200 | 73.8 | 75.9 | 2.1 |
| 1st Street | Bristol Street to Flower Street | 39,006 | 25,700 | 74.8 | 72.8 | -2.0 |

RAILROAD NOISE MODELING

| User Input | |
|---|------|
| Noise Situation (Pick from List) | 1 |
| Horn Lmax (dBA) @ 100 feet | 110 |
| Horn Location on Locomotive(Pick from List) | 1 |
| Non Train Noise Environment (pick from list) | 2 |
| Shielding (Pick from List) | 2 |
| Length of Impact Area (pick from list) | 1 |
| Existing Train Speed (mph) | 50 |
| Future Train Speed (mph) | 50 |
| Number of Existing Trains in one Direction | 39 |
| Number of Future Trains in one Direction | 39 |
| Existing Number of Day Trains (7 am to 10 p.m.) | 31.5 |
| Future Number of Day Trains (7 am to 10 p.m.) | 31.5 |
| Existing Number of Night Trains (10 p.m. to 7 am) | 7.5 |
| Future Number of Night Trains (10 p.m. to 7 am) | 7.5 |
| Existing Average Number of Cars | 10.5 |
| Future Average Number of Cars | 10.5 |
| Existing Average Number of Locomotives | 1.5 |
| Future Average Number of Locomotives | 1.5 |

| Noise Situation | |
|--|---|
| Horns Existing and Future | 1 |
| Horns in Future Only | 2 |
| No Horns Existing and Future | 3 |
| | |
| Horn Location on Locomotive | |
| National Average (50% front, 50% middle) | 1 |
| All Front Mounted | 2 |

| Silielaling | |
|----------------|---|
| Dense Urban | 1 |
| Light Urban | 2 |
| Dense Suburban | 3 |
| Light Suburban | 4 |
| Rural | 5 |
| No Shielding | 6 |
| | |

Shielding

| Ldn 65 Contours Numeric Output (in feet) | |
|--|------|
| Existing 65 Ldn Contour at X-ing | 978 |
| Future 65 Ldn Contour at X-ing | 978 |
| Existing 65 Ldn Contour at 1/2 zone length | 756 |
| Future 65 Ldn Contour at 1/2 zone length | 756 |
| Zone Length | 1320 |
| 1/2 Zone Length | 660 |

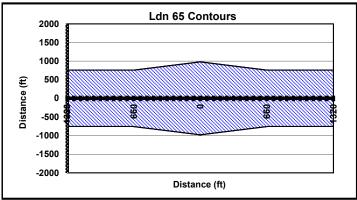
| All Middle Mounted | | _ | 3 |
|---------------------|-------|-----------------------|---|
| User Defined | 80 | % front mounted horns | 4 |
| _ | | | |
| Non Train Noise Env | ironn | nent | |
| Urban | | | 1 |
| Suburban | | | 2 |
| Dural | | | 2 |

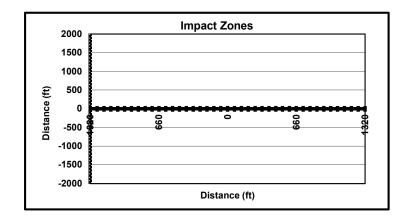
50 dBA

User Defined Ldn =

| Length of Impact A | \rea | I |
|--------------------|------|---|
| 1/4 mile | 1 | Γ |
| 20 seconds | 2 | |
| 15 seconds | 3 | Γ |
| | | |

| | mpact Zones Numeric Output (in feet) |
|------|---|
| 0 | Impact Distance at X-ing |
| 0 | Severe Impact Distance at X-ing |
| 0 | Impact Distance at 1/2 zone length |
| 0 | Severe Impact Distance at 1/2 zone length |
| 1320 | Zone Length |
| 660 | 1/2 Zone Length |
| | |





Noise Model Based on Federal Transit Administration General Transit Noise Assessment Developed for Chicago Create Project Copyright 2006, HMMH Inc. Case: SCRRA Orange Subdivision

| RESULTS | | | |
|--------------|----------|--------------------|----------------------|
| Noise Source | Ldn (dB) | Leq - daytime (dB) | Leq - nighttime (dB) |
| All Sources | 65 | 58 | 59 |
| Source 1 | 62 | 54 | 56 |
| Source 2 | 59 | 51 | 53 |
| Source 3 | 54 | 51 | 46 |
| Source 4 | 51 | 49 | 44 |
| Source 5 | 51 | 48 | 44 |
| Source 6 | 49 | 46 | 41 |
| Source 7 | 0 | 0 | 0 |
| Source 8 | 0 | 0 | 0 |

Enter noise receiver land use category below.

LAND USE CATEGORY

Noise receiver land use category (1, 2 or 3)

Enter data for up to 8 noise sources below - see reference list for source numbers.

| NOISE | SOURC | F PARA | METERS |
|-------|-------|--------|--------|

| Parameter | Source 1 | | Source 2 | | Source 3 | | Source 4 | | Source 5 | | Source 6 | |
|----------------------------------|--------------------|-------|-----------------------------|-------|----------------------------|-------|--------------------------|-------|----------------------------|-------|--------------------------|-------|
| Source Num. | Freight Locomotive | 9 | Freight Cars | 10 | Commuter Diesel Locomotive | 2 | Commuter Rail Cars | 3 | Commuter Diesel Locomotive | 2 | Commuter Rail Cars | 3 |
| Distance (source to receiver) | distance (ft) | 210 | distance (ft) | 210 | distance (ft) | 210 | distance (ft) | 210 | distance (ft) | 210 | distance (ft) | 210 |
| Daytime Hours | speed (mph) | 40 | speed (mph) | 40 | speed (mph) | 50 | speed (mph) | 50 | speed (mph) | 50 | speed (mph) | 50 |
| (7 AM - 10 PM) | trains/hour | 0.267 | trains/hour | 0.267 | trains/hour | 2.6 | trains/hour | 2.6 | trains/hour | 1.333 | trains/hour | 1.333 |
| | locos/train | 6 | length of cars (ft) / train | 3000 | locos/train | 1 | cars/train | 6 | locos/train | 1 | cars/train | 6 |
| Nighttime Hours | speed (mph) | 40 | speed (mph) | 40 | speed (mph) | 50 | speed (mph) | 50 | speed (mph) | 50 | speed (mph) | 50 |
| (10 PM - 7 AM) | trains/hour | 0.444 | trains/hour | 0.444 | trains/hour | 0.778 | trains/hour | 0.778 | trains/hour | 0.444 | trains/hour | 0.444 |
| | locos/train | 6 | length of cars (ft) / train | 3000 | locos/train | 1 | cars/train | 6 | locos/train | 1 | cars/train | 6 |
| Wheel Flats? | | 0.00% | % of cars w/ wheel flats | 0.00% | | 0.00% | % of cars w/ wheel flats | 0.00% | | 0.00% | % of cars w/ wheel flats | 0.00% |
| Jointed Track? | Y/N | n | Y/N | n | Y/N | n | Y/N | n | Y/N | n | Y/N | n |
| Embedded Track? | Y/N | n | Y/N | n | Y/N | n | Y/N | n | Y/N | n | Y/N | n |
| Aerial Structure? | Y/N | n | Y/N | n | Y/N | n | Y/N | n | Y/N | n | Y/N | n |
| Barrier Present? | Y/N | n | Y/N | n | Y/N | n | Y/N | n | Y/N | n | Y/N | n |
| Intervening Rows of of Buildings | number of rows | 0 | number of rows | 0 | number of rows | 0 | number of rows | 0 | number of rows | 0 | number of rows | 0 |

| User Input | |
|---|------|
| Noise Situation (Pick from List) | 1 |
| Horn Lmax (dBA) @ 100 feet | 110 |
| Horn Location on Locomotive(Pick from List) | 1 |
| Non Train Noise Environment (pick from list) | 2 |
| Shielding (Pick from List) | 2 |
| Length of Impact Area (pick from list) | 1 |
| Existing Train Speed (mph) | 10 |
| Future Train Speed (mph) | 10 |
| Number of Existing Trains in one Direction | 2 |
| Number of Future Trains in one Direction | 2 |
| Existing Number of Day Trains (7 am to 10 p.m.) | 1.25 |
| Future Number of Day Trains (7 am to 10 p.m.) | 1.25 |
| Existing Number of Night Trains (10 p.m. to 7 am) | 0.75 |
| Future Number of Night Trains (10 p.m. to 7 am) | 0.75 |
| Existing Average Number of Cars | 15 |
| Future Average Number of Cars | 15 |
| Existing Average Number of Locomotives | 2 |
| Future Average Number of Locomotives | 2 |

| Noise Situation | |
|--|---|
| Horns Existing and Future | 1 |
| Horns in Future Only | 2 |
| No Horns Existing and Future | 3 |
| | |
| Horn Location on Locomotive | |
| National Average (50% front, 50% middle) | 1 |

| No Horns Existing and Future | | |
|------------------------------|-----------------------|--|
| | | |
| como | tive | |
| % front | , 50% middle) | 1 |
| All Front Mounted | | |
| | | 3 |
| 80 | % front mounted horns | 4 |
| · · | | |
| ironm | ent | |
| | | 1 |
| | como % front | ## Forting Company Com |

Suburban Rural

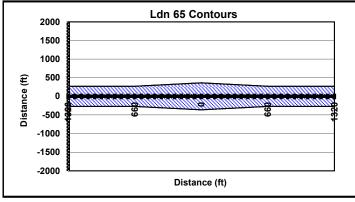
User Defined Ldn =

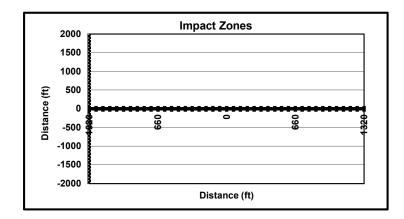
| Shielding | |
|----------------|---|
| Dense Urban | 1 |
| Light Urban | 2 |
| Dense Suburban | 3 |
| Light Suburban | 4 |
| Rural | 5 |
| No Shielding | 6 |

| Ldn 65 Contours Numeric Output (in feet) | | |
|--|------|--|
| Existing 65 Ldn Contour at X-ing | 361 | |
| Future 65 Ldn Contour at X-ing | 361 | |
| Existing 65 Ldn Contour at 1/2 zone length | 269 | |
| Future 65 Ldn Contour at 1/2 zone length | 269 | |
| Zone Length | 1320 | |
| 1/2 Zone Length | 660 | |

| ength of Impact Area | | | | | |
|----------------------|---|--|--|--|--|
| 1/4 mile | 1 | | | | |
| 20 seconds | 2 | | | | |
| 15 seconds | 3 | | | | |
| | | | | | |

| | Impact Zones Numeric Output (in feet) |
|------|---|
| 0 | Impact Distance at X-ing |
| 0 | Severe Impact Distance at X-ing |
| 0 | Impact Distance at 1/2 zone length |
| 0 | Severe Impact Distance at 1/2 zone length |
| 1320 | Zone Length |
| 660 | 1/2 Zone Length |
| | |





Noise Model Based on Federal Transit Adminstration General Transit Noise Assessmen Developed for Chicago Create Project

Copyright 2006, HMMH Inc.

Case: UP Santa Ana Industrial Lead

| RESULTS | | | |
|--------------|----------|--------------------|----------------------|
| Noise Source | Ldn (dB) | Leq - daytime (dB) | Leq - nighttime (dB) |
| All Sources | 65 | 57 | 59 |
| Source 1 | 64 | 56 | 58 |
| Source 2 | 58 | 49 | 52 |
| Source 3 | 0 | 0 | 0 |
| Source 4 | 0 | 0 | 0 |
| Source 5 | 0 | 0 | 0 |
| Source 6 | 0 | 0 | 0 |
| Source 7 | 0 | 0 | 0 |
| Source 8 | 0 | 0 | 0 |

Enter noise receiver land use category below.

| LAND USE CATEGORY | |
|--|---|
| Noise receiver land use category (1, 2 or 3) | 2 |

Enter data for up to 8 noise sources below - see reference list for source numbers.

| NOISE SOURCE PARAMETERS | | | | | | |
|----------------------------------|--------------------|-------|-----------------------------|-------|----------|--|
| Parameter | Parameter Source 1 | | Source 2 | | Source 3 | |
| Source Num. | Freight Locomotive | 9 | Freight Cars | 10 | | |
| Distance (source to receiver) | distance (ft) | 30 | distance (ft) | 30 | | |
| Daytime Hours | speed (mph) | 10 | speed (mph) | 10 | | |
| (7 AM - 10 PM) | trains/hour | 0.133 | trains/hour | 0.133 | | |
| | locos/train | 2 | length of cars (ft) / train | 900 | | |
| Nighttime Hours | speed (mph) | 10 | speed (mph) | 10 | | |
| (10 PM - 7 AM) | trains/hour | 0.222 | trains/hour | 0.222 | | |
| | locos/train | 2 | length of cars (ft) / train | 900 | | |
| Wheel Flats? | | 0.00% | % of cars w/ wheel flats | 0.00% | | |
| Jointed Track? | Y/N | n | Y/N | n | | |
| Embedded Track? | Y/N | n | Y/N | n | | |
| Aerial Structure? | Y/N | n | Y/N | n | | |
| Barrier Present? | Y/N | n | Y/N | n | | |
| Intervening Rows of of Buildings | number of rows | 0 | number of rows | 0 | | |

Noise Model Based on Federal Transit Adminstration General Transit Noise Assessment Developed for Chicago Create Project Copyright 2006, HMMH Inc. Case: 2045 BNSF Irvine Industrial Lead

| RESULTS | | | |
|--------------|----------|--------------------|----------------------|
| Noise Source | Ldn (dB) | Leq - daytime (dB) | Leq - nighttime (dB) |
| All Sources | 65 | 57 | 59 |
| Source 1 | 64 | 56 | 58 |
| Source 2 | 57 | 49 | 51 |
| Source 3 | 0 | 0 | 0 |
| Source 4 | 0 | 0 | 0 |
| Source 5 | 0 | 0 | 0 |
| Source 6 | 0 | 0 | 0 |
| Source 7 | 0 | 0 | 0 |
| Source 8 | 0 | 0 | Ö |

Enter noise receiver land use category below

| LAND USE CATEGORY |
|--|
| Noise receiver land use category (1, 2 or 3) |

Enter data for up to 8 noise sources below - see reference list for source numbers

| NOISE SOURCE PARAMETERS | | | | | | |
|----------------------------------|--------------------|-------|-----------------------------|-------|----------|--|
| Parameter | Parameter Source 1 | | Source 2 | | Source 3 | |
| Source Num. | Freight Locomotive | 9 | Freight Cars | 10 | | |
| Distance (source to receiver) | distance (ft) | 20 | distance (ft) | 20 | | |
| Daytime Hours | speed (mph) | 10 | speed (mph) | 10 | | |
| (7 AM - 10 PM) | trains/hour | 0.067 | trains/hour | 0.067 | | |
| | locos/train | 2 | length of cars (ft) / train | 900 | | |
| Nighttime Hours | speed (mph) | 10 | speed (mph) | 10 | | |
| (10 PM - 7 AM) | trains/hour | 0.111 | trains/hour | 0.111 | | |
| | locos/train | 2 | length of cars (ft) / train | 900 | | |
| Wheel Flats? | | 0.00% | % of cars w/ wheel flats | 0.00% | | |
| Jointed Track? | Y/N | n | Y/N | n | | |
| Embedded Track? | Y/N | n | Y/N | n | | |
| Aerial Structure? | Y/N | n | Y/N | n | | |
| Barrier Present? | Y/N | n | Y/N | n | | |
| Intervening Rows of of Buildings | number of rows | 0 | number of rows | 0 | | |

| Noise Situation (Pick from List) 1 | |
|---|----|
| Horn Lmax (dBA) @ 100 feet 11 | 0 |
| on on Locomotive(Pick from List) | |
| Noise Environment (pick from list) 2 | |
| Shielding (Pick from List) 2 | |
| gth of Impact Area (pick from list) 1 | |
| Existing Train Speed (mph) 10 |) |
| Future Train Speed (mph) 10 |) |
| of Existing Trains in one Direction 1 | |
| r of Future Trains in one Direction 1 | |
| er of Day Trains (7 am to 10 p.m.) 0.62 | 25 |
| er of Day Trains (7 am to 10 p.m.) 0.62 | 25 |
| of Night Trains (10 p.m. to 7 am) 0.37 | 75 |
| of Night Trains (10 p.m. to 7 am) 0.37 | 75 |
| Existing Average Number of Cars 15 | 5 |
| Future Average Number of Cars 15 | 5 |
| Average Number of Locomotives 2 | |
| Average Number of Locomotives 2 | |

| | True Grade Greecing Noice in | |
|-----------------------|------------------------------|---|
| Noise Situation | | |
| Horns Existing and Fι | iture | 1 |
| Horns in Future Only | | 2 |
| No Horns Existing and | d Future | 3 |
| | | |
| Horn Location on Lo | comotive | |
| National Average (50° | % front, 50% middle) | 1 |
| All Front Mounted | | |
| All Middle Mounted | _ | 3 |
| User Defined | 80 % front mounted horns | 4 |
| | | |
| Non Train Noise Env | rironment | |
| Urban | _ | 1 |
| Suburban | | 2 |
| Rural | _ | 3 |

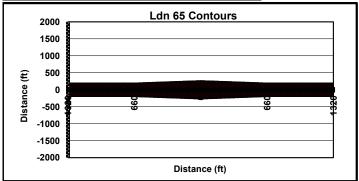
dBA

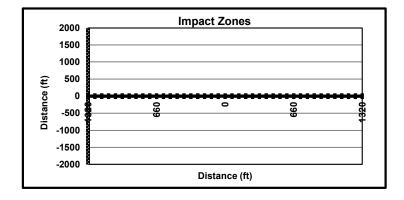
User Defined Ldn =

| | | E- | |
|----------------|---|--|---|
| hielding | | Ldn 65 Contours Numeric Output (in feet) | |
| Dense Urban | 1 | Existing 65 Ldn Contour at X-ing | Ī |
| Light Urban | 2 | Future 65 Ldn Contour at X-ing | Ī |
| Dense Suburban | 3 | Existing 65 Ldn Contour at 1/2 zone length | Ī |
| Light Suburban | 4 | Future 65 Ldn Contour at 1/2 zone length | Т |
| Rural | 5 | Zone Length | Ī |
| No Shielding | 6 | 1/2 Zone Length | |
| • | | | _ |

| Length of Impact Area | | | | |
|-----------------------|---|---|--|--|
| 1/4 mile | 1 | F | | |
| 20 seconds | 2 | Ī | | |
| 15 seconds | 3 | | | |
| | | | | |
| | | | | |

| mpact Zones Numeric Output (in feet) | |
|---|------|
| Impact Distance at X-ing | 0 |
| Severe Impact Distance at X-ing | 0 |
| Impact Distance at 1/2 zone length | 0 |
| Severe Impact Distance at 1/2 zone length | 0 |
| Zone Length | 1320 |
| 1/2 Zone Length | 660 |
| | |





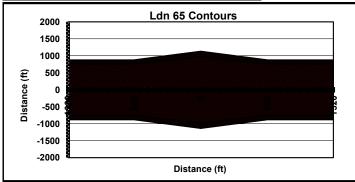
| User Input | |
|---|------|
| Noise Situation (Pick from List) | 1 |
| Horn Lmax (dBA) @ 100 feet | 110 |
| Horn Location on Locomotive(Pick from List) | 1 |
| Non Train Noise Environment (pick from list) | 2 |
| Shielding (Pick from List) | 2 |
| Length of Impact Area (pick from list) | 1 |
| Existing Train Speed (mph) | 50 |
| Future Train Speed (mph) | 50 |
| Number of Existing Trains in one Direction | 39 |
| Number of Future Trains in one Direction | 52.5 |
| Existing Number of Day Trains (7 am to 10 p.m.) | 31.5 |
| Future Number of Day Trains (7 am to 10 p.m.) | 40 |
| Existing Number of Night Trains (10 p.m. to 7 am) | 7.5 |
| Future Number of Night Trains (10 p.m. to 7 am) | 12 |
| Existing Average Number of Cars | 10.5 |
| Future Average Number of Cars | 8.5 |
| Existing Average Number of Locomotives | 1.5 |
| Future Average Number of Locomotives | 1.3 |

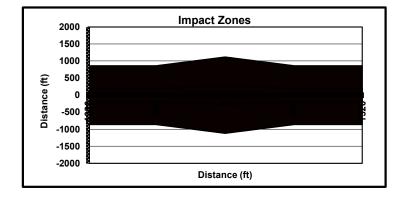
| | FRA | Grade Crossing Noise M | oaei |
|------------------------|--------|------------------------|------|
| Noise Situation | | | |
| Horns Existing and Fu | iture | | 1 |
| Horns in Future Only | | | 2 |
| No Horns Existing and | l Futu | re | 3 |
| | | | |
| Horn Location on Lo | como | otive | |
| National Average (50%) | % fron | t, 50% middle) | 1 |
| All Front Mounted | | | 2 |
| All Middle Mounted | | | 3 |
| User Defined | 80 | % front mounted horns | 4 |
| | | | |
| Non Train Noise Env | rironn | nent | |
| Urban | | | 1 |
| Suburban 2 | | | 2 |
| Rural | | | 3 |
| User Defined Ldn = | 50 | dBA | 4 |

| nielding | | Ldn 65 Contours Numeric Output (in feet) | |
|----------------|---|--|-----|
| Dense Urban | 1 | Existing 65 Ldn Contour at X-ing | 978 |
| Light Urban | 2 | Future 65 Ldn Contour at X-ing | 113 |
| Dense Suburban | 3 | Existing 65 Ldn Contour at 1/2 zone length | 756 |
| Light Suburban | 4 | Future 65 Ldn Contour at 1/2 zone length | 882 |
| Rural | 5 | Zone Length | 132 |
| No Shielding | 6 | 1/2 Zone Length | 660 |
| | | | |

| gth of Impact A | rea | Impa |
|-----------------|-----|------|
| 1/4 mile | 1 | |
| 20 seconds | 2 | |
| 15 seconds | 3 | |
| | | Se |
| | | |
| | | |

| mpact Zones Numeric Output (in feet) | |
|---|------|
| Impact Distance at X-ing | 1120 |
| Severe Impact Distance at X-ing | 274 |
| Impact Distance at 1/2 zone length | 865 |
| Severe Impact Distance at 1/2 zone length | 199 |
| Zone Length | 1320 |
| 1/2 Zone Length | 660 |
| | |





Noise Model Based on Federal Transit Adminstration General Transit Noise Assessment Developed for Chicago Create Project Copyright 2006, HMMH Inc.
Case: 2045 SCRRA Orange Subdivision

| RESULTS | | | |
|--------------|----------|--------------------|----------------------|
| Noise Source | Ldn (dB) | Leq - daytime (dB) | Leq - nighttime (dB) |
| All Sources | 65 | 59 | 59 |
| Source 1 | 62 | 54 | 56 |
| Source 2 | 59 | 51 | 53 |
| Source 3 | 55 | 52 | 47 |
| Source 4 | 53 | 50 | 45 |
| Source 5 | 55 | 49 | 48 |
| Source 6 | 52 | 47 | 46 |
| Source 7 | 0 | 0 | 0 |
| Source 8 | 0 | 0 | 0 |

Enter noise receiver land use category below

LAND USE CATEGORY

Noise receiver land use category (1, 2 or 3)

Enter data for up to 8 noise sources below - see reference list for source numbers

| NOISE SOURCE PARAMETERS | | | | | | | | | | | |
|----------------------------------|--------------------|-------|-----------------------------|-------|----------------------------|-------|--------------------------|-------|------------------------------|--------------------------|-------|
| Parameter | Source 1 | | Source 2 | | Source 3 | | Source 4 | | Source 5 | Source 6 | |
| Source Num. | Freight Locomotive | 9 | Freight Cars | 10 | Commuter Diesel Locomotive | 2 | Commuter Rail Cars | 3 | Commuter Diesel Locomotive 2 | Commuter Rail Cars | 3 |
| Distance (source to receiver) | distance (ft) | 220 | distance (ft) | 220 | distance (ft) | 220 | distance (ft) | 220 | distance (ft) 220 | distance (ft) | 220 |
| Daytime Hours | speed (mph) | 40 | speed (mph) | 40 | speed (mph) | 50 | speed (mph) | 50 | speed (mph) 50 | speed (mph) | 50 |
| (7 AM - 10 PM) | trains/hour | 0.267 | trains/hour | 0.267 | trains/hour | 3.533 | trains/hour | 3.533 | trains/hour 1.6 | trains/hour | 1.6 |
| | locos/train | 6 | length of cars (ft) / train | 3000 | locos/train | 1 | cars/train | 6 | locos/train 1 | cars/train | 6 |
| Nighttime Hours | speed (mph) | 40 | speed (mph) | 40 | speed (mph) | 50 | speed (mph) | 50 | speed (mph) 50 | speed (mph) | 50 |
| (10 PM - 7 AM) | trains/hour | 0.444 | trains/hour | 0.444 | trains/hour | 1.111 | trains/hour | 1.111 | trains/hour 1.333 | trains/hour | 1.333 |
| | locos/train | 6 | length of cars (ft) / train | 3000 | locos/train | 1 | cars/train | 6 | locos/train 1 | cars/train | 6 |
| Wheel Flats? | | 0.00% | % of cars w/ wheel flats | 0.00% | | 0.00% | % of cars w/ wheel flats | 0.00% | 0.009 | % of cars w/ wheel flats | 0.00% |
| Jointed Track? | Y/N | n | Y/N | n | Y/N | n | Y/N | n | Y/N n | Y/N | n |
| Embedded Track? | Y/N | n | Y/N | n | Y/N | n | Y/N | n | Y/N n | Y/N | n |
| Aerial Structure? | Y/N | n | Y/N | n | Y/N | n | Y/N | n | Y/N n | Y/N | n |
| Barrier Present? | Y/N | n | Y/N | n | Y/N | n | Y/N | n | Y/N n | Y/N | n |
| Intervening Rows of of Buildings | number of rows | 0 | number of rows | 0 | number of rows | 0 | number of rows | 0 | number of rows 0 | number of rows | 0 |

| User Input | |
|---|------|
| Noise Situation (Pick from List) | 1 |
| Horn Lmax (dBA) @ 100 feet | 110 |
| Horn Location on Locomotive(Pick from List) | 1 |
| Non Train Noise Environment (pick from list) | 2 |
| Shielding (Pick from List) | 2 |
| Length of Impact Area (pick from list) | 1 |
| Existing Train Speed (mph) | 10 |
| Future Train Speed (mph) | 10 |
| Number of Existing Trains in one Direction | 2 |
| Number of Future Trains in one Direction | 2 |
| Existing Number of Day Trains (7 am to 10 p.m.) | 1.25 |
| Future Number of Day Trains (7 am to 10 p.m.) | 1.25 |
| Existing Number of Night Trains (10 p.m. to 7 am) | 0.75 |
| Future Number of Night Trains (10 p.m. to 7 am) | 0.75 |
| Existing Average Number of Cars | 15 |
| Future Average Number of Cars | 15 |
| Existing Average Number of Locomotives | 2 |
| Future Average Number of Locomotives | 2 |

| | FRA | Grade Crossing Noise W | louei |
|---------------------------------------|--------|------------------------|-------|
| Noise Situation | | | |
| Horns Existing and Fu | iture | | 1 |
| Horns in Future Only | | | 2 |
| No Horns Existing and | l Futu | re | 3 |
| | | | |
| Horn Location on Lo | como | tive | |
| National Average (50% | % fron | t, 50% middle) | 1 |
| All Front Mounted | | | 2 |
| All Middle Mounted | | | 3 |
| User Defined 80 % front mounted horns | | | 4 |
| | | | |
| Non Train Noise Env | ironm | nent | |
| Urban | | | 1 |

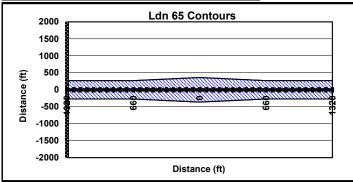
50 dBA

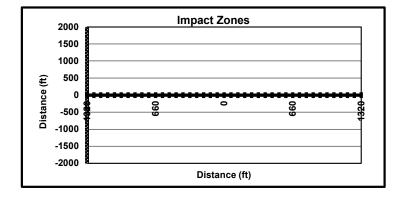
Suburban Rural User Defined Ldn =

| Shielding | | Ldn 65 Contours Numeric Output (in feet) | |
|----------------|---|--|------|
| Dense Urban | 1 | Existing 65 Ldn Contour at X-ing | 361 |
| Light Urban | 2 | Future 65 Ldn Contour at X-ing | 361 |
| Dense Suburban | 3 | Existing 65 Ldn Contour at 1/2 zone length | 269 |
| Light Suburban | 4 | Future 65 Ldn Contour at 1/2 zone length | 269 |
| Rural | 5 | Zone Length | 1320 |
| No Shielding | 6 | 1/2 Zone Length | 660 |
| | | | |

| | | _ |
|-------------------|-----|----|
| ength of Impact A | rea | In |
| 1/4 mile | 1 | ı |
| 20 seconds | 2 | |
| 15 seconds | 3 | |
| | | |
| | | |

| mpact Zones Numeric Output (in feet) | |
|---|------|
| Impact Distance at X-ing | 0 |
| Severe Impact Distance at X-ing | 0 |
| Impact Distance at 1/2 zone length | 0 |
| Severe Impact Distance at 1/2 zone length | 0 |
| Zone Length | 1320 |
| 1/2 Zone Length | 660 |
| | |





Noise Model Based on Federal Transit Adminstration General Transit Noise Assessment Developed for Chicago Create Project Copyright 2006, HMMH Inc. Case: 2045 UP Santa Ana Industrial Lead

| RESULTS | | | | | | | |
|--------------|----------|--------------------|----------------------|--|--|--|--|
| Noise Source | Ldn (dB) | Leq - daytime (dB) | Leq - nighttime (dB) | | | | |
| All Sources | 65 | 57 | 59 | | | | |
| Source 1 | 64 | 56 | 58 | | | | |
| Source 2 | 58 | 49 | 52 | | | | |
| Source 3 | 0 | 0 | 0 | | | | |
| Source 4 | 0 | 0 | 0 | | | | |
| Source 5 | 0 | 0 | 0 | | | | |
| Source 6 | 0 | 0 | 0 | | | | |
| Source 7 | 0 | 0 | 0 | | | | |
| Source 8 | Ö | Ö | 0 | | | | |

Enter noise receiver land use category below LAND USE CATEGORY

Noise receiver land use category (1, 2 or 3)

Enter data for up to 8 noise sources below - see reference list for source numbers

| NOISE SOURCE PARAMETERS | | | | | | | | | |
|----------------------------------|--------------------|-------|-----------------------------|-------|----------|--|--|--|--|
| Parameter | Source 1 | | Source 2 | | Source 3 | | | | |
| Source Num. | Freight Locomotive | 9 | Freight Cars | 10 | | | | | |
| Distance (source to receiver) | distance (ft) | 30 | distance (ft) | 30 | | | | | |
| Daytime Hours | speed (mph) | 10 | speed (mph) | 10 | | | | | |
| (7 AM - 10 PM) | trains/hour | 0.133 | trains/hour | 0.133 | | | | | |
| | locos/train | 2 | length of cars (ft) / train | 900 | | | | | |
| Nighttime Hours | speed (mph) | 10 | speed (mph) | 10 | | | | | |
| (10 PM - 7 AM) | trains/hour | 0.222 | trains/hour | 0.222 | | | | | |
| | locos/train | 2 | length of cars (ft) / train | 900 | | | | | |
| Wheel Flats? | | 0.00% | % of cars w/ wheel flats | 0.00% | | | | | |
| Jointed Track? | Y/N | n | Y/N | n | | | | | |
| Embedded Track? | Y/N | n | Y/N | n | | | | | |
| Aerial Structure? | Y/N | n | Y/N | n | | | | | |
| Barrier Present? | Y/N | n | Y/N | n | | | | | |
| Intervening Rows of of Buildings | number of rows | 0 | number of rows | 0 | | | | | |