

APPENDIX G

NOISE DATA

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TABLE Existing-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Marsh Road north of US-101
NOTES: Menlo Flats - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 34760 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

| | DAY --- | EVENING ----- | NIGHT ----- |
|----------|------------|------------------|----------------|
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.72

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 60.2 | 116.5 | 244.3 | 523.1 |

TABLE Existing-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Marsh Road north of Scott Drive
NOTES: Menlo Flats - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 32420 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.42

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 111.6 | 233.4 | 499.5 |

TABLE Existing-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Bayfront Expressway east of Willow Road
NOTES: Menlo Flats - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 34070 SPEED (MPH): 50 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 36 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 71.13

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 99.7 | 203.4 | 432.7 | 929.5 |

TABLE Existing-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Marsh Road north of US-101
NOTES: Menlo Flats - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 29300 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.98

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 104.8 | 218.4 | 467.0 |

TABLE Existing-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Bayfront Expressway east of Marsh Road
NOTES: Menlo Flats - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 40440 SPEED (MPH): 50 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 36 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 71.88

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 110.2 | 227.3 | 484.7 | 1041.8 |

TABLE Existing-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Chilco Street south of Bayfront Expressway
NOTES: Menlo Flats - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 11200 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.10

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 0.0 | 54.3 | 114.8 | 246.2 |

TABLE Existing-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Chrysler Drive south of Bayfront Expressway
NOTES: Menlo Flats - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3800 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

| | DAY --- | EVENING ----- | NIGHT ----- |
|----------|------------|------------------|----------------|
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 56.52

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 0.0 | 0.0 | 0.0 | 70.6 |

TABLE Existing-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Constitution Drive west of Chilco Street
NOTES: Menlo Flats - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 6850 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.55

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 82.6 | 177.4 |

TABLE Existing-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Chrysler Drive north of Jefferson Drive
NOTES: Menlo Flats - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5820 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.37

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 0.0 | 0.0 | 0.0 | 93.6 |

TABLE Existing-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Jefferson Drive east of Chrysler Drive
NOTES: Menlo Flats - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2840 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 55.26

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 58.2 |

TABLE Existing-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Constitution Drive east of Chrysler Drive
NOTES: Menlo Flats - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5010 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.72

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 0.0 | 0.0 | 0.0 | 84.8 |

TABLE Existing-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Chrysler Drive south of Constitution Drive
NOTES: Menlo Flats - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7890 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.70

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 53.5 | 114.6 |

TABLE Existing with Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Marsh Road north of US-101
NOTES: Menlo Flats - Existing with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 34830 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.73

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 60.3 | 116.6 | 244.6 | 523.8 |

TABLE Existing with Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Marsh Road north of Scott Drive
NOTES: Menlo Flats - Existing with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 32470 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.42

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 0.0 | 111.7 | 233.6 | 500.0 |

TABLE Existing with Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Bayfront Expressway east of Willow Road
NOTES: Menlo Flats - Existing with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 34210 SPEED (MPH): 50 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 36 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 71.15

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 99.9 | 203.9 | 433.9 | 932.0 |

TABLE Existing with Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Marsh Road north of US-101
NOTES: Menlo Flats - Existing with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 29460 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.00

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 105.2 | 219.2 | 468.7 |

TABLE Existing with Project-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Bayfront Expressway east of Marsh Road
NOTES: Menlo Flats - Existing with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 40820 SPEED (MPH): 50 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 36 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 71.92

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 110.8 | 228.7 | 487.7 | 1048.3 |

TABLE Existing with Project-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Chilco Street south of Bayfront Expressway
NOTES: Menlo Flats - Existing with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 11340 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.16

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 54.8 | 115.7 | 248.3 |

TABLE Existing with Project-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Chrysler Drive south of Bayfront Expressway
NOTES: Menlo Flats - Existing with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4080 SPEED (MPH): 25 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

| | DAY --- | EVENING ----- | NIGHT ----- |
|----------|------------|------------------|----------------|
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 56.83

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 0.0 | 0.0 | 0.0 | 74.0 |

TABLE Existing with Project-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Constitution Drive west of Chilco Street
NOTES: Menlo Flats - Existing with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7000 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.64

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 83.7 | 180.0 |

TABLE Existing with Project-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Chrysler Drive north of Jefferson Drive
NOTES: Menlo Flats - Existing with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 6140 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.61

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 0.0 | 0.0 | 0.0 | 97.0 |

TABLE Existing with Project-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Jefferson Drive east of Chrysler Drive
NOTES: Menlo Flats - Existing with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3180 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 55.75

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 0.0 | 0.0 | 0.0 | 62.7 |

TABLE Existing with Project-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Constitution Drive east of Chrysler Drive
NOTES: Menlo Flats - Existing with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5050 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.76

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 85.2 |

TABLE Existing with Project-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Chrysler Drive south of Constitution Drive
NOTES: Menlo Flats - Existing with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8210 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.87

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 54.9 | 117.7 |

TABLE Near Term -01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Marsh Road north of US-101
NOTES: Menlo Flats - Near Term

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 41170 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.46

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 65.7 | 129.5 | 273.0 | 585.3 |

TABLE Near Term -02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Marsh Road north of Scott Drive
NOTES: Menlo Flats - Near Term

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 36710 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.96

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 61.9 | 120.5 | 253.2 | 542.4 |

TABLE Near Term -03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Bayfront Expressway east of Willow Road
NOTES: Menlo Flats - Near Term

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 46230 SPEED (MPH): 50 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 36 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 72.46

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 119.5 | 248.0 | 529.7 | 1138.9 |

TABLE Near Term -04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Marsh Road north of US-101
NOTES: Menlo Flats - Near Term

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 38020 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.11

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 63.1 | 123.2 | 259.1 | 555.2 |

TABLE Near Term -05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Bayfront Expressway east of Marsh Road
NOTES: Menlo Flats - Near Term

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 45080 SPEED (MPH): 50 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 36 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 72.35

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 117.6 | 243.9 | 520.9 | 1120.0 |

TABLE Near Term -06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Chilco Street south of Bayfront Expressway
NOTES: Menlo Flats - Near Term

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 11830 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.34

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 56.3 | 119.0 | 255.3 |

TABLE Near Term -07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Chrysler Drive south of Bayfront Expressway
NOTES: Menlo Flats - Near Term

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5370 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.02

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 88.8 |

TABLE Near Term -08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Constitution Drive west of Chilco Street
NOTES: Menlo Flats - Near Term

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8140 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.30

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 92.6 | 199.1 |

TABLE Near Term -09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Chrysler Drive north of Jefferson Drive
NOTES: Menlo Flats - Near Term

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 6850 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.08

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 104.3 |

TABLE Near Term -10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Jefferson Drive east of Chrysler Drive
NOTES: Menlo Flats - Near Term

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4170 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 56.93

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 75.1 |

TABLE Near Term -11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Constitution Drive east of Chrysler Drive
NOTES: Menlo Flats - Near Term

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7120 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.25

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 0.0 | 0.0 | 0.0 | 107.0 |

TABLE Near Term -12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Chrysler Drive south of Constitution Drive
NOTES: Menlo Flats - Near Term

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8920 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.23

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 58.0 | 124.3 |

TABLE Near Term with Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Marsh Road north of US-101
NOTES: Menlo Flats - Near Term with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 41240 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.46

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 65.8 | 129.7 | 273.3 | 586.0 |

TABLE Near Term with Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Marsh Road north of Scott Drive
NOTES: Menlo Flats - Near Term with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 36760 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.96

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 62.0 | 120.6 | 253.4 | 542.9 |

TABLE Near Term with Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Bayfront Expressway east of Willow Road
NOTES: Menlo Flats - Near Term with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 46370 SPEED (MPH): 50 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 36 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 72.47

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 119.7 | 248.5 | 530.8 | 1141.2 |

TABLE Near Term with Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Marsh Road north of US-101
NOTES: Menlo Flats - Near Term with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 38180 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.13

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 63.2 | 123.5 | 259.8 | 556.7 |

TABLE Near Term with Project-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Bayfront Expressway east of Marsh Road
NOTES: Menlo Flats - Near Term with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 45460 SPEED (MPH): 50 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 36 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 72.39

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 118.2 | 245.3 | 523.8 | 1126.2 |

TABLE Near Term with Project-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Chilco Street south of Bayfront Expressway
NOTES: Menlo Flats - Near Term with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 11970 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.39

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 0.0 | 56.7 | 119.9 | 257.3 |

TABLE Near Term with Project-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Chrysler Drive south of Bayfront Expressway
NOTES: Menlo Flats - Near Term with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5650 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.25

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 0.0 | 0.0 | 0.0 | 91.8 |

TABLE Near Term with Project-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Constitution Drive west of Chilco Street
NOTES: Menlo Flats - Near Term with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8290 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.38

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 0.0 | 0.0 | 93.7 | 201.5 |

TABLE Near Term with Project-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Chrysler Drive north of Jefferson Drive
NOTES: Menlo Flats - Near Term with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7170 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.28

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 0.0 | 0.0 | 0.0 | 107.5 |

TABLE Near Term with Project-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Jefferson Drive east of Chrysler Drive
NOTES: Menlo Flats - Near Term with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4510 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.27

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 79.1 |

TABLE Near Term with Project-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Constitution Drive east of Chrysler Drive
NOTES: Menlo Flats - Near Term with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7160 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.27

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 107.4 |

TABLE Near Term with Project-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Chrysler Drive south of Constitution Drive
NOTES: Menlo Flats - Near Term with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9240 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.38

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 0.0 | 0.0 | 59.3 | 127.3 |

TABLE Cumulative without Project -01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Marsh Road north of US-101
NOTES: Menlo Flats - Cumulative without Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 44970 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.84

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 68.9 | 137.0 | 289.4 | 620.7 |

TABLE Cumulative without Project -02
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
 ROADWAY SEGMENT: Marsh Road north of Scott Drive
 NOTES: Menlo Flats - Cumulative without Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 39320 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.26

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 64.2 | 125.8 | 264.9 | 567.7 |

TABLE Cumulative without Project -03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Bayfront Expressway east of Willow Road
NOTES: Menlo Flats - Cumulative without Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 59250 SPEED (MPH): 50 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 36 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 73.54

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 139.1 | 291.7 | 624.6 | 1343.6 |

TABLE Cumulative without Project -04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Marsh Road north of US-101
NOTES: Menlo Flats - Cumulative without Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 43610 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.71

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 67.8 | 134.3 | 283.6 | 608.2 |

TABLE Cumulative without Project -05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Bayfront Expressway east of Marsh Road
NOTES: Menlo Flats - Cumulative without Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 52530 SPEED (MPH): 50 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 36 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 73.01

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 129.1 | 269.6 | 576.6 | 1240.1 |

TABLE Cumulative without Project -06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Chilco Street south of Bayfront Expressway
NOTES: Menlo Flats - Cumulative without Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 15860 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.62

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 0.0 | 67.9 | 144.5 | 310.3 |

TABLE Cumulative without Project -07
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
 ROADWAY SEGMENT: Chrysler Drive south of Bayfront Expressway
 NOTES: Menlo Flats - Cumulative without Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7210 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.30

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 50.4 | 107.9 |

TABLE Cumulative without Project -08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Constitution Drive west of Chilco Street
NOTES: Menlo Flats - Cumulative without Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 10110 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.24

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 0.0 | 0.0 | 106.9 | 230.0 |

TABLE Cumulative without Project -09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Chrysler Drive north of Jefferson Drive
NOTES: Menlo Flats - Cumulative without Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9170 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.35

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 59.0 | 126.6 |

TABLE Cumulative without Project -10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Jefferson Drive east of Chrysler Drive
NOTES: Menlo Flats - Cumulative without Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 6540 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.88

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 0.0 | 0.0 | 0.0 | 101.2 |

TABLE Cumulative without Project -11
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
 ROADWAY SEGMENT: Constitution Drive east of Chrysler Drive
 NOTES: Menlo Flats - Cumulative without Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8600 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.07

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 0.0 | 0.0 | 56.6 | 121.3 |

TABLE Cumulative without Project -12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Chrysler Drive south of Constitution Drive
NOTES: Menlo Flats - Cumulative without Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12320 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.63

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 71.8 | 154.1 |

TABLE Cumulative with Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Marsh Road north of US-101
NOTES: Menlo Flats - Cumulative with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 45040 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.85

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 69.0 | 137.1 | 289.7 | 621.4 |

TABLE Cumulative with Project-02
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
 ROADWAY SEGMENT: Marsh Road north of Scott Drive
 NOTES: Menlo Flats - Cumulative with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 39370 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.26

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 64.2 | 125.9 | 265.1 | 568.2 |

TABLE Cumulative with Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Bayfront Expressway east of Willow Road
NOTES: Menlo Flats - Cumulative with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 59390 SPEED (MPH): 50 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 36 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 73.55

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 139.3 | 292.2 | 625.6 | 1345.7 |

TABLE Cumulative with Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Marsh Road north of US-101
NOTES: Menlo Flats - Cumulative with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 43770 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.72

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 67.9 | 134.6 | 284.3 | 609.7 |

TABLE Cumulative with Project-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Bayfront Expressway east of Marsh Road
NOTES: Menlo Flats - Cumulative with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 52810 SPEED (MPH): 50 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 36 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 73.04

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 129.6 | 270.5 | 578.6 | 1244.5 |

TABLE Cumulative with Project-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Chilco Street south of Bayfront Expressway
NOTES: Menlo Flats - Cumulative with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 16000 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.65

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 0.0 | 68.3 | 145.3 | 312.2 |

TABLE Cumulative with Project-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Chrysler Drive south of Bayfront Expressway
NOTES: Menlo Flats - Cumulative with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7390 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.41

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 51.2 | 109.7 |

TABLE Cumulative with Project-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Constitution Drive west of Chilco Street
NOTES: Menlo Flats - Cumulative with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 10260 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.30

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 50.4 | 107.9 | 232.2 |

TABLE Cumulative with Project-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Chrysler Drive north of Jefferson Drive
NOTES: Menlo Flats - Cumulative with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9490 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.50

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 0.0 | 0.0 | 60.4 | 129.6 |

TABLE Cumulative with Project-10
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
 ROADWAY SEGMENT: Jefferson Drive east of Chrysler Drive
 NOTES: Menlo Flats - Cumulative with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 6880 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|------------------|----------------|
| | DAY --- | EVENING ----- | NIGHT ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.10

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|------------------|------------------|------------------|
| 70 CNEL ----- | 65 CNEL ----- | 60 CNEL ----- | 55 CNEL ----- |
| 0.0 | 0.0 | 0.0 | 104.6 |

TABLE Cumulative with Project-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Constitution Drive east of Chrysler Drive
NOTES: Menlo Flats - Cumulative with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8640 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.09

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 56.8 | 121.7 |

TABLE Cumulative with Project-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/22/2021
ROADWAY SEGMENT: Chrysler Drive south of Constitution Drive
NOTES: Menlo Flats - Cumulative with Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12640 SPEED (MPH): 25 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.51 | 12.57 | 9.34 |
| M-TRUCKS | 1.56 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.74

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 73.0 | 156.8 |

