

APPENDIX E

Noise Modeling Data

EXISTING (YEAR 2011) NO PROJECT

1-RUN NAME: U.S. 50 NORTH OF KAHLE RUN DATE: 10/25/2007

TRAFFIC DISTRIBUTION PERCENTAGES
DAY EVENING NIGHT

--- ----- ----
AUTOS
75.09 12.50 9.31
M-TRUCKS
2.19 0.13 0.27
H-TRUCKS
0.45 0.01 0.06

ADT: 37100 SPEED: 45 ACTIVE HALF WIDTH (FT): 18
SITE CHARACTERISTICS: SOFT GRADE (PERCENT): .5

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE = 71.54
* * DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL * *
70 CNEL 65 CNEL 60 CNEL 55 CNEL

85.0 179.8 385.7 830.0

*The distances from the roadway centerline to CNELs is adjusted by 24 feet in the applicable tables to represent CNELs from roadway edge.

BARRIER TYPE:NONE
CNEL AT 324 FT FROM CL WITHOUT BARRIER: 60.92248916625977

*Here 324 feet from the CL represents 300 feet from the roadway edge as the difference of 24 is from the AHW + 1/2 of a lane = 18+6=24

2-RUN NAME: U.S. 50 SOUTH OF KAHLE RUN DATE: 10/25/2007

TRAFFIC DISTRIBUTION PERCENTAGES
DAY EVENING NIGHT

--- ----- ----
AUTOS
75.09 12.50 9.31
M-TRUCKS
2.19 0.13 0.27
H-TRUCKS
0.45 0.01 0.06

ADT: 38000 SPEED: 35 ACTIVE HALF WIDTH (FT): 18
SITE CHARACTERISTICS: SOFT GRADE (PERCENT): .5

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE = 68.89
* * DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL * *
70 CNEL 65 CNEL 60 CNEL 55 CNEL

58.2 120.5 257.3 553.2

BARRIER TYPE:NONE
CNEL AT 324 FT FROM CL WITHOUT BARRIER: 58.27806854248047

3-RUN NAME: KAHLE WEST OF US 50 RUN DATE: 10/25/2007

TRAFFIC DISTRIBUTION PERCENTAGES
DAY EVENING NIGHT

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AUTOS
76.35 12.71 9.44
M-TRUCKS
0.42 0.02 0.05
H-TRUCKS
0.86 0.03 0.11

ADT: 2160 SPEED: 25 ACTIVE HALF WIDTH (FT): 6
SITE CHARACTERISTICS: SOFT GRADE (PERCENT): 0

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE = 54.12
* * DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL * *
70 CNEL 65 CNEL 60 CNEL 55 CNEL

0.0 0.0 0.0 0.0

BARRIER TYPE:NONE
CNEL AT 312 FT FROM CL WITHOUT BARRIER: 42.67133712768555

*Here 312 feet from the CL represents 300 feet from the roadway edge as the difference of 12 is from the
AHW + 1/2 of a lane = 6+6=12

4-RUN NAME: KAHLE (ADJACENT TO PROJECT SITE) RUN DATE: 10/25/2007

TRAFFIC DISTRIBUTION PERCENTAGES
DAY EVENING NIGHT

--- ----- -----
AUTOS
76.35 12.71 9.44
M-TRUCKS
0.42 0.02 0.05
H-TRUCKS
0.86 0.03 0.11

ADT: 696 SPEED: 25 ACTIVE HALF WIDTH (FT): 6
SITE CHARACTERISTICS: SOFT GRADE (PERCENT): 0

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE = 49.20
* * DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL * *
70 CNEL 65 CNEL 60 CNEL 55 CNEL

0.0 0.0 0.0 0.0

BARRIER TYPE:NONE
CNEL AT 312 FT FROM CL WITHOUT BARRIER: 37.75306701660156

EXISTING (YEAR 2011) PLUS PROJECT

1-RUN NAME: U.S. 50 NORTH OF KAHLE RUN DATE: 10/25/2007

TRAFFIC DISTRIBUTION PERCENTAGES

DAY EVENING NIGHT

--- - -

AUTOS

75.09 12.50 9.31

M-TRUCKS

2.19 0.13 0.27

H-TRUCKS

0.45 0.01 0.06

ADT: 37204 SPEED: 45 ACTIVE HALF WIDTH (FT): 18

SITE CHARACTERISTICS: SOFT GRADE (PERCENT): .5

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE = 71.55

* * DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL * *

70 CNEL 65 CNEL 60 CNEL 55 CNEL

85.1 180.1 386.4 831.6

*The distances from the roadway centerline to CNELs is adjusted by 24 feet in the applicable tables to represent CNELs from roadway edge.

BARRIER TYPE:NONE

CNEL AT 324 FT FROM CL WITHOUT BARRIER: 60.93464279174805

*Here 324 feet from the CL represents 300 feet from the roadway edge as the difference of 24 is from the AHW + 1/2 of a lane = 18+6=24

2-RUN NAME: U.S. 50 SOUTH OF KAHLE RUN DATE: 10/25/2007

TRAFFIC DISTRIBUTION PERCENTAGES

DAY EVENING NIGHT

--- - -

AUTOS

75.09 12.50 9.31

M-TRUCKS

2.19 0.13 0.27

H-TRUCKS

0.45 0.01 0.06

ADT: 38199 SPEED: 35 ACTIVE HALF WIDTH (FT): 18

SITE CHARACTERISTICS: SOFT GRADE (PERCENT): .5

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE = 68.92

* * DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL * *

70 CNEL 65 CNEL 60 CNEL 55 CNEL

58.4 120.9 258.2 555.2

BARRIER TYPE:NONE
CNEL AT 324 FT FROM CL WITHOUT BARRIER: 58.30074691772461

3-RUN NAME: KAHLE WEST OF US 50 RUN DATE: 10/25/2007

TRAFFIC DISTRIBUTION PERCENTAGES
DAY EVENING NIGHT

--- ----- -----
AUTOS
76.35 12.71 9.44
M-TRUCKS
0.42 0.02 0.05
H-TRUCKS
0.86 0.03 0.11

ADT: 2466 SPEED: 25 ACTIVE HALF WIDTH (FT): 6
SITE CHARACTERISTICS: SOFT GRADE (PERCENT): 0

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE = 54.69
* * DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL * *
70 CNEL 65 CNEL 60 CNEL 55 CNEL

0.0 0.0 0.0 53.4

BARRIER TYPE:NONE
CNEL AT 312 FT FROM CL WITHOUT BARRIER: 43.24671173095703

*Here 312 feet from the CL represents 300 feet from the roadway edge as the difference of 12 is from the
AHW + 1/2 of a lane = 6+6=12

4-RUN NAME: KAHLE (ADJACENT TO PROJECT SITE) RUN DATE: 10/25/2007

TRAFFIC DISTRIBUTION PERCENTAGES
DAY EVENING NIGHT

--- ----- -----
AUTOS
76.35 12.71 9.44
M-TRUCKS
0.42 0.02 0.05
H-TRUCKS
0.86 0.03 0.11

ADT: 1002 SPEED: 25 ACTIVE HALF WIDTH (FT): 6
SITE CHARACTERISTICS: SOFT GRADE (PERCENT): 0

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE = 50.78
* * DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL * *
70 CNEL 65 CNEL 60 CNEL 55 CNEL

0.0 0.0 0.0 0.0

BARRIER TYPE:NONE
CNEL AT 312 FT FROM CL WITHOUT BARRIER: 39.33559417724609

CUMULATIVE NO PROJECT

1-RUN NAME: U.S. 50 NORTH OF KAHLE RUN DATE: 10/25/2007

TRAFFIC DISTRIBUTION PERCENTAGES

DAY EVENING NIGHT

--- - -

AUTOS

75.09 12.50 9.31

M-TRUCKS

2.19 0.13 0.27

H-TRUCKS

0.45 0.01 0.06

ADT: 39400 SPEED: 45 ACTIVE HALF WIDTH (FT): 18

SITE CHARACTERISTICS: SOFT GRADE (PERCENT): .5

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE = 71.80

* * DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL * *

70 CNEL 65 CNEL 60 CNEL 55 CNEL

88.3 187.0 401.4 864.0

*The distances from the roadway centerline to CNELs is adjusted by 24 feet in the applicable tables to represent CNELs from roadway edge.

BARRIER TYPE:NONE

CNEL AT 324 FT FROM CL WITHOUT BARRIER: 61.18370056152344

*Here 324 feet from the CL represents 300 feet from the roadway edge as the difference of 24 is from the AHW + 1/2 of a lane = 18+6=24

2-RUN NAME: U.S. 50 SOUTH OF KAHLE RUN DATE: 10/25/2007

TRAFFIC DISTRIBUTION PERCENTAGES

DAY EVENING NIGHT

--- - -

AUTOS

75.09 12.50 9.31

M-TRUCKS

2.19 0.13 0.27

H-TRUCKS

0.45 0.01 0.06

ADT: 40300 SPEED: 35 ACTIVE HALF WIDTH (FT): 18

SITE CHARACTERISTICS: SOFT GRADE (PERCENT): .5

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE = 69.15

* * DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL * *

70 CNEL 65 CNEL 60 CNEL 55 CNEL

60.3 125.2 267.6 575.3

BARRIER TYPE:NONE
CNEL AT 324 FT FROM CL WITHOUT BARRIER: 58.53327178955078

3-RUN NAME: KAHLE WEST OF US 50 RUN DATE: 10/25/2007

TRAFFIC DISTRIBUTION PERCENTAGES
DAY EVENING NIGHT

--- ----- ----
AUTOS
76.35 12.71 9.44
M-TRUCKS
0.42 0.02 0.05
H-TRUCKS
0.86 0.03 0.11

ADT: 2160 SPEED: 25 ACTIVE HALF WIDTH (FT): 6
SITE CHARACTERISTICS: SOFT GRADE (PERCENT): 0

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE = 54.12
* * DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL * *
70 CNEL 65 CNEL 60 CNEL 55 CNEL

0.0 0.0 0.0 0.0

BARRIER TYPE:NONE
CNEL AT 312 FT FROM CL WITHOUT BARRIER: 42.67133712768555

*Here 312 feet from the CL represents 300 feet from the roadway edge as the difference of 12 is from the
AHW + 1/2 of a lane = 6+6=12

4-RUN NAME: KAHLE (ADJACENT TO PROJECT SITE) RUN DATE: 10/25/2007

TRAFFIC DISTRIBUTION PERCENTAGES
DAY EVENING NIGHT

--- ----- ----
AUTOS
76.35 12.71 9.44
M-TRUCKS
0.42 0.02 0.05
H-TRUCKS
0.86 0.03 0.11

ADT: 696 SPEED: 25 ACTIVE HALF WIDTH (FT): 6
SITE CHARACTERISTICS: SOFT GRADE (PERCENT): 0

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE = 49.20
* * DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL * *
70 CNEL 65 CNEL 60 CNEL 55 CNEL

0.0 0.0 0.0 0.0

BARRIER TYPE:NONE
CNEL AT 312 FT FROM CL WITHOUT BARRIER: 37.75306701660156

CUMULATIVE PLUS PROJECT

1-RUN NAME: U.S. 50 NORTH OF KAHLE RUN DATE: 10/25/2007

TRAFFIC DISTRIBUTION PERCENTAGES

DAY EVENING NIGHT

--- - -

AUTOS

75.09 12.50 9.31

M-TRUCKS

2.19 0.13 0.27

H-TRUCKS

0.45 0.01 0.06

ADT: 39504 SPEED: 45 ACTIVE HALF WIDTH (FT): 18

SITE CHARACTERISTICS: SOFT GRADE (PERCENT): .5

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE = 71.81

**** DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL ****

70 CNEL 65 CNEL 60 CNEL 55 CNEL

88.4 187.4 402.1 865.5

*The distances from the roadway centerline to CNELs is adjusted by 24 feet in the applicable tables to represent CNELs from roadway edge.

BARRIER TYPE:NONE

CNEL AT 324 FT FROM CL WITHOUT BARRIER: 61.19515228271484

*Here 324 feet from the CL represents 300 feet from the roadway edge as the difference of 24 is from the AHW + 1/2 of a lane = 18+6=24

2-RUN NAME: U.S. 50 SOUTH OF KAHLE RUN DATE: 10/25/2007

TRAFFIC DISTRIBUTION PERCENTAGES

DAY EVENING NIGHT

--- - -

AUTOS

75.09 12.50 9.31

M-TRUCKS

2.19 0.13 0.27

H-TRUCKS

0.45 0.01 0.06

ADT: 40499 SPEED: 35 ACTIVE HALF WIDTH (FT): 18

SITE CHARACTERISTICS: SOFT GRADE (PERCENT): .5

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE = 69.17

**** DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL ****

70 CNEL 65 CNEL 60 CNEL 55 CNEL

60.5 125.6 268.4 577.2

BARRIER TYPE:NONE
CNEL AT 324 FT FROM CL WITHOUT BARRIER: 58.55466461181641

3-RUN NAME: KAHLE WEST OF US 50 RUN DATE: 10/25/2007

TRAFFIC DISTRIBUTION PERCENTAGES
DAY EVENING NIGHT

--- ----- -----
AUTOS
76.35 12.71 9.44
M-TRUCKS
0.42 0.02 0.05
H-TRUCKS
0.86 0.03 0.11

ADT: 2466 SPEED: 25 ACTIVE HALF WIDTH (FT): 6
SITE CHARACTERISTICS: SOFT GRADE (PERCENT): 0

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE = 54.69
* * DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL * *
70 CNEL 65 CNEL 60 CNEL 55 CNEL

0.0 0.0 0.0 53.4

BARRIER TYPE:NONE
CNEL AT 312 FT FROM CL WITHOUT BARRIER: 43.24671173095703

*Here 312 feet from the CL represents 300 feet from the roadway edge as the difference of 12 is from the
AHW + 1/2 of a lane = 6+6=12

4-RUN NAME: KAHLE (ADJACENT TO PROJECT SITE) RUN DATE: 10/25/2007

TRAFFIC DISTRIBUTION PERCENTAGES
DAY EVENING NIGHT

--- ----- -----
AUTOS
76.35 12.71 9.44
M-TRUCKS
0.42 0.02 0.05
H-TRUCKS
0.86 0.03 0.11

ADT: 1002 SPEED: 25 ACTIVE HALF WIDTH (FT): 6
SITE CHARACTERISTICS: SOFT GRADE (PERCENT): 0

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE = 50.78
* * DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL * *
70 CNEL 65 CNEL 60 CNEL 55 CNEL

0.0 0.0 0.0 0.0

BARRIER TYPE:NONE
CNEL AT 312 FT FROM CL WITHOUT BARRIER: 39.33559417724609