

**Appendix E:  
Noise Analysis**

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Project Number: 3249.0010  
 Project Name: Mill Creek  
 Test Personnel: Robert C.

Sheet 1 of 1

### Noise Measurement Survey

Site Number: ST-1 Date: 2/9/17 Time: From 12:30 To 12:45

Site Location: Eastern portion of site, ~ 400 feet <sup>west of</sup> ~~from~~ K12 location

Primary Noise Sources: Cars, construction, airplane, dogs, frogs

#### Measurement Results

	dBA
Leq	46.9
Lmax	71.4
Lmin	36.4
Lpeak	-
L5	49.3
L10	45.2
L50	41.4
L90	39.5
SEL	-

#### Observed Noise Sources/Events

Time	Noise Source/Event	dBA

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Equipment: \_\_\_\_\_  
 Settings: A-Weighted  Other  \_\_\_\_\_

Measured Difference: -0.02 dBA  
 Slow  Fast  Windscreen

#### Atmospheric Conditions:

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)	
4	1	70	50	
Comments: <u>Sunny, low to no wind, partly cloudy</u>				

Project Number: 3249.0010  
 Project Name: Mill Creek  
 Test Personnel: Robert C.

Sheet 1 of 1

### Noise Measurement Survey

Site Number: ST-2 Date: 2/9/17 Time: From 12:45 To 1:00

Site Location: Near railroad tracks, southern area of project site

Primary Noise Sources: dogs, airplanes, birds

**Measurement Results**

	dB(A)
Leq	42.3
Lmax	51.9
Lmin	37.9
Lpeak	-
L5	45.7
L10	44.4
L50	41.2
L90	39.3
SEL	-

**Observed Noise Sources/Events**

Time	Noise Source/Event	dB(A)

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Equipment: \_\_\_\_\_  
 Settings: A-Weighted  Other  \_\_\_\_\_

Measured Difference: -0.02 dB(A)  
 Slow  Fast  Windscreen

**Atmospheric Conditions:**

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)	
4	1	72	56	
Comments: <u>sunny, low winds, partly cloudy</u>				

Project Number: 3249.0010  
 Project Name: Mill Creek  
 Test Personnel: Robert C.

Sheet 1 of 1

### Noise Measurement Survey

Site Number: ST-3 Date: 2/9/17 Time: From 1:00 To 1:15

Site Location: Near railroad tracks, northern area of project site

Primary Noise Sources: Cars, construction, conversation from adjacent house

#### Measurement Results

	dB(A)
Leq	46.0
Lmax	55.3
Lmin	38.4
Lpeak	-
L5	50.7
L10	48.9
L50	44.2
L90	41.0
SEL	-

#### Observed Noise Sources/Events

Time	Noise Source/Event	dB(A)

Comments: \_\_\_\_\_

Equipment: \_\_\_\_\_  
 Settings: A-Weighted  Other  \_\_\_\_\_

Measured Difference: -0.02 dB(A)  
 Slow  Fast  Windscreen

#### Atmospheric Conditions:

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)	
3	1	73	50	
Comments: <u>sunny, partly cloudy, low winds</u>				

TABLE Existing-01  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/02/2018  
ROADWAY SEGMENT: Windsor River Road - Rd. 2(Johnson St.) to Bell Road  
NOTES: Mill Creek Project - Existing

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 10900      SPEED (MPH): 30      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) = 62.96

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	87.9	188.9

TABLE Existing-02  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/02/2018  
ROADWAY SEGMENT: Windsor River Road - Bell Road to Conde Lane  
NOTES: Mill Creek Project - Existing

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 11600      SPEED (MPH): 30      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) = 63.23

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	91.6	196.9

TABLE Existing-03  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/02/2018  
ROADWAY SEGMENT: Bell Road - Windsor River Road to Johnson Street  
NOTES: Mill Creek Project - Existing

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 1100      SPEED (MPH): 30      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) = 53.00

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

TABLE Existing-04  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/02/2018  
ROADWAY SEGMENT: Bell Road - Johnson Street to End of Bell Road (project access)  
NOTES: Mill Creek Project - Existing

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 360      SPEED (MPH): 30      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

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\* \* CALCULATED NOISE LEVELS \* \*

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 48.15

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

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TABLE Existing-05  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/02/2018  
ROADWAY SEGMENT: Johnson Street - Road 2 (Johnson Street) to Bell Road  
NOTES: Mill Creek Project - Existing

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 230      SPEED (MPH): 20      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): 0      SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 42.85

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

TABLE Existing-06  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/02/2018  
ROADWAY SEGMENT: Johnson Street - Bell Road to Conde Lane  
NOTES: Mill Creek Project - Existing

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 510      SPEED (MPH): 30      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) = 49.66

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

TABLE Existing + Project-01  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/02/2018  
ROADWAY SEGMENT: Windsor River Road - Rd. 2(Johnson St.) to Bell Road  
NOTES: Mill Creek Project - Existing + Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 10900      SPEED (MPH): 30      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) = 62.96

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	87.9	188.9

TABLE Existing + Project-02  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/02/2018  
ROADWAY SEGMENT: Windsor River Road - Bell Road to Conde Lane  
NOTES: Mill Creek Project - Existing + Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 12800      SPEED (MPH): 30      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) = 63.66

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	97.7	210.2

TABLE Existing + Project-03  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/02/2018  
ROADWAY SEGMENT: Bell Road - Windsor River Road to Johnson Street  
NOTES: Mill Creek Project - Existing + Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 2400      SPEED (MPH): 30      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) = 56.39

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	69.1

TABLE Existing + Project-04  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/02/2018

ROADWAY SEGMENT: Bell Road - Johnson Street to End of Bell Road (project access)

NOTES: Mill Creek Project - Existing + Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 1800      SPEED (MPH): 30      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) = 55.14

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	57.2

TABLE Existing + Project-05  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/02/2018  
ROADWAY SEGMENT: Johnson Street - Road 2 (Johnson Street) to Bell Road  
NOTES: Mill Creek Project - Existing + Project

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 410      SPEED (MPH): 20      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): 0      SITE CHARACTERISTICS: SOFT

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\* \* CALCULATED NOISE LEVELS \* \*

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 45.36

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

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TABLE Existing + Project-06  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/02/2018  
ROADWAY SEGMENT: Johnson Street - Bell Road to Conde Lane  
NOTES: Mill Creek Project - Existing + Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 640      SPEED (MPH): 30      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) = 50.65

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

TABLE Cumulative No Project-01  
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/02/2018  
 ROADWAY SEGMENT: Windsor River Road - Rd. 2(Johnson St.) to Bell Road  
 NOTES: Mill Creek Project - Cumulative No Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 13600      SPEED (MPH): 30      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) = 63.92

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	101.8	218.9

TABLE Cumulative No Project-02  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/02/2018  
ROADWAY SEGMENT: Windsor River Road - Bell Road to Conde Lane  
NOTES: Mill Creek Project - Cumulative No Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 13300      SPEED (MPH): 30      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) = 63.82

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	100.3	215.7

TABLE Cumulative No Project-03  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/02/2018  
ROADWAY SEGMENT: Bell Road - Windsor River Road to Johnson Street  
NOTES: Mill Creek Project - Cumulative No Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 2300      SPEED (MPH): 30      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) = 56.20

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	67.2

TABLE Cumulative No Project-04  
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/02/2018  
 ROADWAY SEGMENT: Bell Road - Johnson Street to End of Bell Road (project access)  
 NOTES: Mill Creek Project - Cumulative No Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 2500      SPEED (MPH): 30      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) = 56.56

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	71.0

TABLE Cumulative No Project-05  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/02/2018

ROADWAY SEGMENT: Johnson Street - Road 2 (Johnson Street) to Bell Road

NOTES: Mill Creek Project - Cumulative No Project

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 350      SPEED (MPH): 20      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): 0      SITE CHARACTERISTICS: SOFT

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\* \* CALCULATED NOISE LEVELS \* \*

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 44.67

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

TABLE Cumulative No Project-06  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/02/2018  
ROADWAY SEGMENT: Johnson Street - Bell Road to Conde Lane  
NOTES: Mill Creek Project - Cumulative No Project

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 530      SPEED (MPH): 30      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

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\* \* CALCULATED NOISE LEVELS \* \*

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 49.83

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

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TABLE Cumulative + Project-01  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/02/2018  
ROADWAY SEGMENT: Windsor River Road - Rd. 2(Johnson St.) to Bell Road  
NOTES: Mill Creek Project - Cumulative + Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 13600      SPEED (MPH): 30      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) = 63.92

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	101.8	218.9

TABLE Cumulative + Project-02  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/02/2018  
ROADWAY SEGMENT: Windsor River Road - Bell Road to Conde Lane  
NOTES: Mill Creek Project - Cumulative + Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 14500      SPEED (MPH): 30      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) = 64.20

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	106.2	228.4

TABLE Cumulative + Project-03  
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/02/2018  
 ROADWAY SEGMENT: Bell Road - Windsor River Road to Johnson Street  
 NOTES: Mill Creek Project - Cumulative + Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 3700      SPEED (MPH): 30      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) = 58.27

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	92.1

TABLE Cumulative + Project-04  
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/02/2018

ROADWAY SEGMENT: Bell Road - Johnson Street to End of Bell Road (project access)

NOTES: Mill Creek Project - Cumulative + Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 3900      SPEED (MPH): 30      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) = 58.49

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	95.4

TABLE Cumulative + Project-05  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/02/2018

ROADWAY SEGMENT: Johnson Street - Road 2 (Johnson Street) to Bell Road

NOTES: Mill Creek Project - Cumulative + Project

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 530      SPEED (MPH): 20      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): 0      SITE CHARACTERISTICS: SOFT

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\* \* CALCULATED NOISE LEVELS \* \*

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 46.47

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

TABLE Cumulative + Project-06  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/02/2018  
ROADWAY SEGMENT: Johnson Street - Bell Road to Conde Lane  
NOTES: Mill Creek Project - Cumulative + Project

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 660      SPEED (MPH): 30      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

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\* \* CALCULATED NOISE LEVELS \* \*

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 50.78

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

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