

**APPENDIX A**

**STAMSON 5.04 - INPUT AND OUTPUT DATA**



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Road data, segment # 2: Conroy 2 (day/night)

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Car traffic volume : 28336/2464 veh/TimePeriod \*

Medium truck volume : 2254/196 veh/TimePeriod \*

Heavy truck volume : 1610/140 veh/TimePeriod \*

Posted speed limit : 60 km/h

Road gradient : 0 %

Road pavement : 1 (Typical asphalt or concrete)

\* Refers to calculated road volumes based on the following input:

24 hr Traffic Volume (AADT or SADT): 35000

Percentage of Annual Growth : 0.00

Number of Years of Growth : 0.00

Medium Truck % of Total Volume : 7.00

Heavy Truck % of Total Volume : 5.00

Day (16 hrs) % of Total Volume : 92.00

Data for Segment # 2: Conroy 2 (day/night)

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Angle1 Angle2 : -38.00 deg 0.00 deg

Wood depth : 0 (No woods.)

No of house rows : 0 / 0

Surface : 2 (Reflective ground surface)

Receiver source distance : 55.00 / 55.00 m

Receiver height : 5.30 / 5.30 m

Topography : 1 (Flat/gentle slope; no barrier)

Reference angle : 0.00



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Results segment # 1: Conroy 1 (day)

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Source height = 1.50 m

ROAD (0.00 + 57.29 + 0.00) = 57.29 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	-38	0.55	73.68	0.00	-8.72	-7.66	0.00	0.00	0.00	57.29

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Segment Leq : 57.29 dBA

Results segment # 2: Conroy 2 (day)

-----  
Source height = 1.50 m

ROAD (0.00 + 61.28 + 0.00) = 61.28 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-38	0	0.00	73.68	0.00	-5.64	-6.75	0.00	0.00	0.00	61.28

-----

Segment Leq : 61.28 dBA

Total Leq All Segments: 62.74 dBA



Results segment # 1: Conroy 1 (night)

Source height = 1.50 m

ROAD (0.00 + 49.70 + 0.00) = 49.70 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	-38	0.55	66.08	0.00	-8.72	-7.66	0.00	0.00	0.00	49.70

Segment Leq : 49.70 dBA

Results segment # 2: Conroy 2 (night)

Source height = 1.50 m

ROAD (0.00 + 53.68 + 0.00) = 53.68 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-38	0	0.00	66.08	0.00	-5.64	-6.75	0.00	0.00	0.00	53.68

Segment Leq : 53.68 dBA

Total Leq All Segments: 55.14 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 62.74  
(NIGHT): 55.14



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Road data, segment # 2: St Laurent (day/night)

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Car traffic volume : 6477/563   veh/TimePeriod  *
Medium truck volume : 515/45   veh/TimePeriod  *
Heavy truck volume : 368/32   veh/TimePeriod  *
Posted speed limit : 50 km/h
Road gradient      : 0 %
Road pavement     : 1 (Typical asphalt or concrete)
  
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\* Refers to calculated road volumes based on the following input:

```

24 hr Traffic Volume (AADT or SADT): 8000
Percentage of Annual Growth       : 0.00
Number of Years of Growth         : 0.00
Medium Truck % of Total Volume    : 7.00
Heavy Truck % of Total Volume     : 5.00
Day (16 hrs) % of Total Volume    : 92.00
  
```

Data for Segment # 2: St Laurent (day/night)

```

-----
Angle1  Angle2      : -90.00 deg   6.00 deg
Wood depth : 0 (No woods.)
No of house rows : 0 / 0
Surface : 2 (Reflective ground surface)
Receiver source distance : 77.00 / 77.00 m
Receiver height : 5.30 / 5.30 m
Topography : 1 (Flat/gentle slope; no barrier)
Reference angle : 0.00
  
```



Results segment # 1: Conroy (day)

Source height = 1.50 m

ROAD (0.00 + 64.20 + 0.00) = 64.20 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.55	73.68	0.00	-8.22	-1.26	0.00	0.00	0.00	64.20

Segment Leq : 64.20 dBA

Results segment # 2: St Laurent (day)

Source height = 1.50 m

ROAD (0.00 + 55.92 + 0.00) = 55.92 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	6	0.00	65.75	0.00	-7.10	-2.73	0.00	0.00	0.00	55.92

Segment Leq : 55.92 dBA

Total Leq All Segments: 64.80 dBA





Results segment # 1: Conroy (night)

Source height = 1.50 m

ROAD (0.00 + 56.60 + 0.00) = 56.60 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.55	66.08	0.00	-8.22	-1.26	0.00	0.00	0.00	56.60

Segment Leq : 56.60 dBA

Results segment # 2: St Laurent (night)

Source height = 1.50 m

ROAD (0.00 + 48.32 + 0.00) = 48.32 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	6	0.00	58.16	0.00	-7.10	-2.73	0.00	0.00	0.00	48.32

Segment Leq : 48.32 dBA

Total Leq All Segments: 57.20 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 64.80  
(NIGHT): 57.20



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Road data, segment # 2: St Laurent (day/night)

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Car traffic volume : 6477/563 veh/TimePeriod \*

Medium truck volume : 515/45 veh/TimePeriod \*

Heavy truck volume : 368/32 veh/TimePeriod \*

Posted speed limit : 50 km/h

Road gradient : 0 %

Road pavement : 1 (Typical asphalt or concrete)

\* Refers to calculated road volumes based on the following input:

24 hr Traffic Volume (AADT or SADT): 8000

Percentage of Annual Growth : 0.00

Number of Years of Growth : 0.00

Medium Truck % of Total Volume : 7.00

Heavy Truck % of Total Volume : 5.00

Day (16 hrs) % of Total Volume : 92.00

Data for Segment # 2: St Laurent (day/night)

-----

Angle1 Angle2 : -53.00 deg -29.00 deg

Wood depth : 0 (No woods.)

No of house rows : 0 / 0

Surface : 1 (Absorptive ground surface)

Receiver source distance : 73.00 / 73.00 m

Receiver height : 5.30 / 5.30 m

Topography : 1 (Flat/gentle slope; no barrier)

Reference angle : 0.00



Results segment # 1: Conroy (day)

Source height = 1.50 m

ROAD (0.00 + 59.34 + 0.00) = 59.34 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
0	52	0.55	73.68	0.00	-8.60	-5.74	0.00	0.00	0.00	59.34

Segment Leq : 59.34 dBA

Results segment # 2: St Laurent (day)

Source height = 1.50 m

ROAD (0.00 + 45.68 + 0.00) = 45.68 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-53	-29	0.55	65.75	0.00	-10.63	-9.44	0.00	0.00	0.00	45.68

Segment Leq : 45.68 dBA

Total Leq All Segments: 59.52 dBA



Results segment # 1: Conroy (night)

Source height = 1.50 m

ROAD (0.00 + 51.74 + 0.00) = 51.74 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
0	52	0.55	66.08	0.00	-8.60	-5.74	0.00	0.00	0.00	51.74

Segment Leq : 51.74 dBA

Results segment # 2: St Laurent (night)

Source height = 1.50 m

ROAD (0.00 + 38.09 + 0.00) = 38.09 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-53	-29	0.55	58.16	0.00	-10.63	-9.44	0.00	0.00	0.00	38.09

Segment Leq : 38.09 dBA

Total Leq All Segments: 51.92 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 59.52  
(NIGHT): 51.92



Road data, segment # 2: St Laurent (day/night)

```
-----
Car traffic volume : 6477/563   veh/TimePeriod *
Medium truck volume : 515/45    veh/TimePeriod *
Heavy truck volume  : 368/32    veh/TimePeriod *
Posted speed limit  : 50 km/h
Road gradient       : 0 %
Road pavement      : 1 (Typical asphalt or concrete)
```

\* Refers to calculated road volumes based on the following input:

```
24 hr Traffic Volume (AADT or SADT): 8000
Percentage of Annual Growth         : 0.00
Number of Years of Growth           : 0.00
Medium Truck % of Total Volume      : 7.00
Heavy Truck % of Total Volume       : 5.00
Day (16 hrs) % of Total Volume      : 92.00
```

Data for Segment # 2: St Laurent (day/night)

```
-----
Angle1 Angle2      : -90.00 deg  0.00 deg
Wood depth          : 0          (No woods.)
No of house rows   : 0 / 0
Surface            : 2          (Reflective ground surface)
Receiver source distance : 45.00 / 45.00 m
Receiver height    : 5.30 / 5.30 m
Topography         : 1          (Flat/gentle slope; no barrier)
Reference angle    : 0.00
```

Results segment # 1: Conroy (day)

Source height = 1.50 m

ROAD (0.00 + 64.33 + 0.00) = 64.33 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.55	73.68	0.00	-8.08	-1.26	0.00	0.00	0.00	64.33

Segment Leq : 64.33 dBA



Results segment # 2: St Laurent (day)

Source height = 1.50 m

ROAD (0.00 + 57.97 + 0.00) = 57.97 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	0	0.00	65.75	0.00	-4.77	-3.01	0.00	0.00	0.00	57.97

Segment Leq : 57.97 dBA

Total Leq All Segments: 65.23 dBA

Source height = 1.50 m

ROAD (0.00 + 56.74 + 0.00) = 56.74 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.55	66.08	0.00	-8.08	-1.26	0.00	0.00	0.00	56.74

Segment Leq : 56.74 dBA

Results segment # 2: St Laurent (night)

Source height = 1.50 m

ROAD (0.00 + 50.38 + 0.00) = 50.38 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	0	0.00	58.16	0.00	-4.77	-3.01	0.00	0.00	0.00	50.38

Segment Leq : 50.38 dBA

Total Leq All Segments: 57.64 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 65.23  
(NIGHT): 57.64







Results segment # 1: Conroy (day)

Source height = 1.50 m

Barrier height for grazing incidence

Source Height (m)	Receiver Height (m)	Barrier Height (m)	Elevation of Barrier Top (m)
1.50	5.30	4.42	4.42

ROAD (0.00 + 55.02 + 0.00) = 55.02 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.07	73.68	0.00	-6.79	-0.19	0.00	0.00	-11.68	55.02

Segment Leq : 55.02 dBA

Total Leq All Segments: 55.02 dBA

Results segment # 1: Conroy (night)

Source height = 1.50 m

Barrier height for grazing incidence

Source Height (m)	Receiver Height (m)	Barrier Height (m)	Elevation of Barrier Top (m)
1.50	5.30	4.42	4.42

ROAD (0.00 + 47.42 + 0.00) = 47.42 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.07	66.08	0.00	-6.79	-0.19	0.00	0.00	-11.68	47.42

Segment Leq : 47.42 dBA

Total Leq All Segments: 47.42 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 55.02  
(NIGHT): 47.42





Results segment # 1: Conroy (day)

Source height = 1.50 m

ROAD (0.00 + 59.66 + 0.00) = 59.66 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-57	0	0.55	73.68	0.00	-8.60	-5.41	0.00	0.00	0.00	59.66

Segment Leq : 59.66 dBA

Total Leq All Segments: 59.66 dBA

Results segment # 1: Conroy (night)

Source height = 1.50 m

ROAD (0.00 + 52.06 + 0.00) = 52.06 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-57	0	0.55	66.08	0.00	-8.60	-5.41	0.00	0.00	0.00	52.06

Segment Leq : 52.06 dBA

Total Leq All Segments: 52.06 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 59.66  
(NIGHT): 52.06



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Road data, segment # 2: St Laurent (day/night)

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Car traffic volume : 6477/563 veh/TimePeriod \*

Medium truck volume : 515/45 veh/TimePeriod \*

Heavy truck volume : 368/32 veh/TimePeriod \*

Posted speed limit : 50 km/h

Road gradient : 0 %

Road pavement : 1 (Typical asphalt or concrete)

\* Refers to calculated road volumes based on the following input:

24 hr Traffic Volume (AADT or SADT): 8000

Percentage of Annual Growth : 0.00

Number of Years of Growth : 0.00

Medium Truck % of Total Volume : 7.00

Heavy Truck % of Total Volume : 5.00

Day (16 hrs) % of Total Volume : 92.00

Data for Segment # 2: St Laurent (day/night)

-----

Angle1 Angle2 : -90.00 deg 0.00 deg

Wood depth : 0 (No woods.)

No of house rows : 0 / 0

Surface : 2 (Reflective ground surface)

Receiver source distance : 24.00 / 24.00 m

Receiver height : 5.30 / 5.30 m

Topography : 1 (Flat/gentle slope; no barrier)

Reference angle : 0.00



Results segment # 1: Conroy (day)

Source height = 1.50 m

ROAD (0.00 + 64.47 + 0.00) = 64.47 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.55	73.68	0.00	-7.95	-1.26	0.00	0.00	0.00	64.47

Segment Leq : 64.47 dBA

Results segment # 2: St Laurent (day)

Source height = 1.50 m

ROAD (0.00 + 60.70 + 0.00) = 60.70 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	0	0.00	65.75	0.00	-2.04	-3.01	0.00	0.00	0.00	60.70

Segment Leq : 60.70 dBA

Total Leq All Segments: 65.99 dBA

Results segment # 1: Conroy (night)

Source height = 1.50 m

ROAD (0.00 + 56.87 + 0.00) = 56.87 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.55	66.08	0.00	-7.95	-1.26	0.00	0.00	0.00	56.87

Segment Leq : 56.87 dBA

Results segment # 2: St Laurent (night)

Source height = 1.50 m

ROAD (0.00 + 53.11 + 0.00) = 53.11 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	0	0.00	58.16	0.00	-2.04	-3.01	0.00	0.00	0.00	53.11

Segment Leq : 53.11 dBA

Total Leq All Segments: 58.40 dBA

TOTAL Leq FROM ALL SOURCES (DAY) : 65.99  
(NIGHT) : 58.40





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Road data, segment # 2: Conroy 2 (day/night)

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Car traffic volume : 28336/2464 veh/TimePeriod \*

Medium truck volume : 2254/196 veh/TimePeriod \*

Heavy truck volume : 1610/140 veh/TimePeriod \*

Posted speed limit : 60 km/h

Road gradient : 0 %

Road pavement : 1 (Typical asphalt or concrete)

\* Refers to calculated road volumes based on the following input:

24 hr Traffic Volume (AADT or SADT): 35000

Percentage of Annual Growth : 0.00

Number of Years of Growth : 0.00

Medium Truck % of Total Volume : 7.00

Heavy Truck % of Total Volume : 5.00

Day (16 hrs) % of Total Volume : 92.00

Data for Segment # 2: Conroy 2 (day/night)

-----

Angle1 Angle2 : 43.00 deg 90.00 deg

Wood depth : 0 (No woods.)

No of house rows : 0 / 0

Surface : 2 (Reflective ground surface)

Receiver source distance : 55.00 / 55.00 m

Receiver height : 5.30 / 5.30 m

Topography : 1 (Flat/gentle slope; no barrier)

Reference angle : 0.00

Road data, segment # 3: St Laurent (day/night)

```

-----
Car traffic volume : 6477/563 veh/TimePeriod *
Medium truck volume : 515/45 veh/TimePeriod *
Heavy truck volume : 368/32 veh/TimePeriod *
Posted speed limit : 50 km/h
Road gradient : 0 %
Road pavement : 1 (Typical asphalt or concrete)

```

\* Refers to calculated road volumes based on the following input:

```

24 hr Traffic Volume (AADT or SADT): 8000
Percentage of Annual Growth : 0.00
Number of Years of Growth : 0.00
Medium Truck % of Total Volume : 7.00
Heavy Truck % of Total Volume : 5.00
Day (16 hrs) % of Total Volume : 92.00

```

Data for Segment # 3: St Laurent (day/night)

```

-----
Angle1 Angle2 : -90.00 deg 90.00 deg
Wood depth : 0 (No woods.)
No of house rows : 0 / 0
Surface : 2 (Reflective ground surface)
Receiver source distance : 21.00 / 21.00 m
Receiver height : 5.30 / 5.30 m
Topography : 1 (Flat/gentle slope; no barrier)
Reference angle : 0.00

```

Results segment # 1: Conroy (day)

Source height = 1.50 m

ROAD (0.00 + 60.01 + 0.00) = 60.01 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-17	43	0.55	73.68	0.00	-8.72	-4.95	0.00	0.00	0.00	60.01

Segment Leq : 60.01 dBA

Results segment # 2: Conroy 2 (day)

Source height = 1.50 m

ROAD (0.00 + 62.20 + 0.00) = 62.20 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
43	90	0.00	73.68	0.00	-5.64	-5.83	0.00	0.00	0.00	62.20

Segment Leq : 62.20 dBA



Results segment # 3: St Laurent (day)

Source height = 1.50 m

ROAD (0.00 + 64.29 + 0.00) = 64.29 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.00	65.75	0.00	-1.46	0.00	0.00	0.00	0.00	64.29

Segment Leq : 64.29 dBA

Total Leq All Segments: 67.28 dBA

Results segment # 1: Conroy (night)

Source height = 1.50 m

ROAD (0.00 + 52.41 + 0.00) = 52.41 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-17	43	0.55	66.08	0.00	-8.72	-4.95	0.00	0.00	0.00	52.41

Segment Leq : 52.41 dBA

Results segment # 2: Conroy 2 (night)

Source height = 1.50 m

ROAD (0.00 + 54.60 + 0.00) = 54.60 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
43	90	0.00	66.08	0.00	-5.64	-5.83	0.00	0.00	0.00	54.60

Segment Leq : 54.60 dBA

Results segment # 3: St Laurent (night)

Source height = 1.50 m

ROAD (0.00 + 56.70 + 0.00) = 56.70 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.00	58.16	0.00	-1.46	0.00	0.00	0.00	0.00	56.70

Segment Leq : 56.70 dBA

Total Leq All Segments: 59.69 dBA

TOTAL Leq FROM ALL SOURCES (DAY) : 67.28  
(NIGHT) : 59.69



Road data, segment # 2: Conroy (day/night)

```
-----
Car traffic volume   : 28336/2464   veh/TimePeriod  *
Medium truck volume : 2254/196    veh/TimePeriod  *
Heavy truck volume  : 1610/140    veh/TimePeriod  *
Posted speed limit  :    60 km/h
Road gradient       :    0 %
Road pavement      :    1 (Typical asphalt or concrete)
```

\* Refers to calculated road volumes based on the following input:

```
24 hr Traffic Volume (AADT or SADT): 35000
Percentage of Annual Growth       : 0.00
Number of Years of Growth         : 0.00
Medium Truck % of Total Volume    : 7.00
Heavy Truck % of Total Volume     : 5.00
Day (16 hrs) % of Total Volume    : 92.00
```

Data for Segment # 2: Conroy (day/night)

```
-----
Angle1  Angle2      : 0.00 deg  61.00 deg
Wood depth          : 0          (No woods.)
No of house rows   : 0 / 0
Surface            : 1          (Absorptive ground surface)
Receiver source distance : 82.00 / 82.00 m
Receiver height    : 5.30 / 5.30 m
Topography         : 1          (Flat/gentle slope; no barrier)
Reference angle    : 0.00
```



Results segment # 1: St Laurent (day)

Source height = 1.50 m

ROAD (0.00 + 58.79 + 0.00) = 58.79 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-58	0	0.00	65.75	0.00	-2.04	-4.92	0.00	0.00	0.00	58.79

Segment Leq : 58.79 dBA

Results segment # 2: Conroy (day)

Source height = 1.50 m

ROAD (0.00 + 57.08 + 0.00) = 57.08 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
0	61	0.55	73.68	0.00	-11.41	-5.19	0.00	0.00	0.00	57.08

Segment Leq : 57.08 dBA

Total Leq All Segments: 61.03 dBA

Results segment # 1: St Laurent (night)

Source height = 1.50 m

ROAD (0.00 + 51.20 + 0.00) = 51.20 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-58	0	0.00	58.16	0.00	-2.04	-4.92	0.00	0.00	0.00	51.20

Segment Leq : 51.20 dBA



---

Results segment # 2: Conroy (night)

-----  
Source height = 1.50 m

ROAD (0.00 + 49.49 + 0.00) = 49.49 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
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0	61	0.55	66.08	0.00	-11.41	-5.19	0.00	0.00	0.00	49.49
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Segment Leq : 49.49 dBA

Total Leq All Segments: 53.44 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 61.03  
(NIGHT): 53.44





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Road data, segment # 2: Conroy (day/night)

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Car traffic volume : 28336/2464 veh/TimePeriod \*

Medium truck volume : 2254/196 veh/TimePeriod \*

Heavy truck volume : 1610/140 veh/TimePeriod \*

Posted speed limit : 60 km/h

Road gradient : 0 %

Road pavement : 1 (Typical asphalt or concrete)

\* Refers to calculated road volumes based on the following input:

24 hr Traffic Volume (AADT or SADT): 35000

Percentage of Annual Growth : 0.00

Number of Years of Growth : 0.00

Medium Truck % of Total Volume : 7.00

Heavy Truck % of Total Volume : 5.00

Day (16 hrs) % of Total Volume : 92.00

Data for Segment # 2: Conroy (day/night)

-----

Angle1 Angle2 : -13.00 deg 21.00 deg

Wood depth : 0 (No woods.)

No of house rows : 0 / 0

Surface : 2 (Reflective ground surface)

Receiver source distance : 86.00 / 86.00 m

Receiver height : 5.30 / 5.30 m

Topography : 1 (Flat/gentle slope; no barrier)

Reference angle : 0.00



Road data, segment # 3: Conroy (day/night)

-----  
Car traffic volume : 28336/2464 veh/TimePeriod \*  
Medium truck volume : 2254/196 veh/TimePeriod \*  
Heavy truck volume : 1610/140 veh/TimePeriod \*  
Posted speed limit : 60 km/h  
Road gradient : 0 %  
Road pavement : 1 (Typical asphalt or concrete)

\* Refers to calculated road volumes based on the following input:

24 hr Traffic Volume (AADT or SADT): 35000  
Percentage of Annual Growth : 0.00  
Number of Years of Growth : 0.00  
Medium Truck % of Total Volume : 7.00  
Heavy Truck % of Total Volume : 5.00  
Day (16 hrs) % of Total Volume : 92.00

Data for Segment # 3: Conroy (day/night)

-----  
Angle1 Angle2 : 21.00 deg 90.00 deg  
Wood depth : 0 (No woods.)  
No of house rows : 0 / 0  
Surface : 1 (Absorptive ground surface)  
Receiver source distance : 86.00 / 86.00 m  
Receiver height : 5.30 / 5.30 m  
Topography : 2 (Flat/gentle slope; with barrier)  
Barrier angle1 : 21.00 deg Angle2 : 90.00 deg  
Barrier height : 5.00 m  
Barrier receiver distance : 32.00 / 32.00 m  
Source elevation : 0.00 m  
Receiver elevation : 0.00 m  
Barrier elevation : 0.00 m  
Reference angle : 0.00



Results segment # 1: St Laurent (day)

Source height = 1.50 m

ROAD (0.00 + 64.50 + 0.00) = 64.50 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.00	65.75	0.00	-1.25	0.00	0.00	0.00	0.00	64.50

Segment Leq : 64.50 dBA

Results segment # 2: Conroy (day)

Source height = 1.50 m

ROAD (0.00 + 58.85 + 0.00) = 58.85 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-13	21	0.00	73.68	0.00	-7.58	-7.24	0.00	0.00	0.00	58.85

Segment Leq : 58.85 dBA

Results segment # 3: Conroy (day)

Source height = 1.50 m

Barrier height for grazing incidence

Source Height (m)	Receiver Height (m)	Barrier Height (m)	Elevation of Barrier Top (m)
1.50	5.30	3.88	3.88

ROAD (0.00 + 53.42 + 0.00) = 53.42 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
21	90	0.25	73.68	0.00	-9.45	-5.02	0.00	0.00	-5.78	53.42

Segment Leq : 53.42 dBA

Total Leq All Segments: 65.80 dBA



Results segment # 1: St Laurent (night)

Source height = 1.50 m

ROAD (0.00 + 56.12 + 0.00) = 56.12 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.00	58.16	0.00	-2.04	0.00	0.00	0.00	0.00	56.12

Segment Leq : 56.12 dBA

Results segment # 2: Conroy (night)

Source height = 1.50 m

ROAD (0.00 + 51.26 + 0.00) = 51.26 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-13	21	0.00	66.08	0.00	-7.58	-7.24	0.00	0.00	0.00	51.26

Segment Leq : 51.26 dBA

Results segment # 3: Conroy (night)

Source height = 1.50 m

Barrier height for grazing incidence

Source Height (m)	Receiver Height (m)	Barrier Height (m)	Elevation of Barrier Top (m)
1.50	5.30	3.88	3.88

ROAD (0.00 + 45.82 + 0.00) = 45.82 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
21	90	0.25	66.08	0.00	-9.45	-5.02	0.00	0.00	-5.78	45.82

Segment Leq : 45.82 dBA

Total Leq All Segments: 57.64 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 65.80  
(NIGHT): 57.64





Results segment # 1: St Laurent (day)

Source height = 1.50 m

ROAD (0.00 + 61.28 + 0.00) = 61.28 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
0	90	0.00	65.75	0.00	-1.46	-3.01	0.00	0.00	0.00	61.28

Segment Leq : 61.28 dBA

Total Leq All Segments: 61.28 dBA

Results segment # 1: St Laurent (night)

Source height = 1.50 m

ROAD (0.00 + 53.69 + 0.00) = 53.69 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
0	90	0.00	58.16	0.00	-1.46	-3.01	0.00	0.00	0.00	53.69

Segment Leq : 53.69 dBA

Total Leq All Segments: 53.69 dBA

TOTAL Leq FROM ALL SOURCES (DAY) : 61.28  
(NIGHT) : 53.69





Results segment # 1: St Laurent (day)

Source height = 1.50 m

ROAD (0.00 + 61.08 + 0.00) = 61.08 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	0	0.00	65.75	0.00	-1.66	-3.01	0.00	0.00	0.00	61.08

Segment Leq : 61.08 dBA

Total Leq All Segments: 61.08 dBA

Results segment # 1: St Laurent (night)

Source height = 1.50 m

ROAD (0.00 + 53.48 + 0.00) = 53.48 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	0	0.00	58.16	0.00	-1.66	-3.01	0.00	0.00	0.00	53.48

Segment Leq : 53.48 dBA

Total Leq All Segments: 53.48 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 61.08  
(NIGHT): 53.48







Results segment # 1: St Laurent (day)

Source height = 1.50 m

ROAD (0.00 + 64.50 + 0.00) = 64.50 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.00	65.75	0.00	-1.25	0.00	0.00	0.00	0.00	64.50

Segment Leq : 64.50 dBA

Total Leq All Segments: 64.50 dBA

Results segment # 1: St Laurent (night)

Source height = 1.50 m

ROAD (0.00 + 56.91 + 0.00) = 56.91 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.00	58.16	0.00	-1.25	0.00	0.00	0.00	0.00	56.91

Segment Leq : 56.91 dBA

Total Leq All Segments: 56.91 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 64.50  
(NIGHT): 56.91





Results segment # 1: St Laurent (day)

Source height = 1.50 m

ROAD (0.00 + 60.88 + 0.00) = 60.88 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
0	90	0.00	65.75	0.00	-1.86	-3.01	0.00	0.00	0.00	60.88

Segment Leq : 60.88 dBA

Total Leq All Segments: 60.88 dBA

Results segment # 1: St Laurent (night)

Source height = 1.50 m

ROAD (0.00 + 53.29 + 0.00) = 53.29 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
0	90	0.00	58.16	0.00	-1.86	-3.01	0.00	0.00	0.00	53.29

Segment Leq : 53.29 dBA

Total Leq All Segments: 53.29 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 60.88  
(NIGHT): 53.29