

Slide 1 - Slide 1

Course 200: Traffic Noise Analysis Process
Inform Local Officials

## Module 7: Provide Information to Local Officials



~10 Mins

1

**Determine Study Area Limits**



~15 Mins

2

**Build the TNM**



~15 Mins

3

**Validate the TNM**



~5 Mins

4

**Predict Noise Levels and Impacts**



~15 Mins

5

**Evaluate Noise Abatement**



~10 Mins

6

**Assess Construction Noise**



~10 Mins

7

**Provide Information to Local Officials**



~10 Mins

8

**Prepare a Noise Report**

**You will be able to:**

- ◆ Define a traffic noise study area

- ◆ Obtain data for noise analysis
- ◆ Identify noise-sensitive receptors
- ◆ Demonstrate modeling point placement

- ◆ Gather field noise measurements
- ◆ Validate the TNM

- ◆ Predict traffic noise levels and impacts

- ◆ Determine where to place noise barriers
- ◆ Analyze traffic noise abatement measures

- ◆ Evaluate and control construction noise

- ◆ Provide information to local officials for undeveloped lands

- ◆ Prepare a noise report to NDOT standards

**Audio Script and Notes to Reviewers**

Welcome to Module Seven, Provide Information to Local Officials. After completing this module, you will be able to explain when and how to provide noise impact information for undeveloped lands to local officials.

**Text Captions**

**Module 7: Provide Information to Local Officials**

You will be able to:

Provide Information to Local Officials

- ◆ Provide information to local officials for undeveloped lands

Determine Study Area Limits

- ◆ Define a traffic noise study area

Build the TNM

- ◆ Obtain data for noise analysis
- ◆ Identify noise-sensitive receptors
- ◆ Demonstrate modeling point placement

Validate the TNM

- ◆ Gather field noise measurements
- ◆ Validate the TNM

Predict Noise Levels and Impacts

- ◆ Predict traffic noise levels and impacts

Evaluate Noise Abatement

- ◆ Determine where to place noise barriers
- ◆ Analyze traffic noise abatement measures

Assess Construction Noise

- ◆ Evaluate and control construction noise

Prepare a Noise Report

- ◆ Prepare a noise report to NDOT standards

Slide 2 - Slide 2

Course 200: Traffic Noise Analysis Process
Inform Local Officials

Question 1 of 2

## Knowledge Check

*Do you recall from the 100 Level Course?*

To prevent future traffic impacts on undeveloped lands, what would you provide to local officials with jurisdiction over the project area?

- The best estimation of future noise levels for undeveloped lands and properties in the immediate vicinity of the transportation facility.
- Information that may be useful to local communities to protect future land development from becoming incompatible with anticipated highway noise levels.
- Locations and heights of noise barriers, as well as results of public voting.

Submit

*Review Area*

Correct - Provide estimates of future noise levels and information to protect future land development from becoming incompatible with those noise levels. Click anywhere or click the Forward button to continue.

**Audio Script and Notes to Reviewers**

To prevent future traffic impacts on undeveloped lands, what would you provide to local officials with jurisdiction over the project area?

**Text Captions**

Knowledge Check

*Do you recall from the 100 Level Course?*

To prevent future traffic impacts on undeveloped lands, what would you provide to local officials with jurisdiction over the project area?

Correct feedback: Correct - Provide estimates of future noise levels and information to protect future land development from becoming incompatible with those noise levels. Click anywhere or click the Forward button to continue.

1<sup>st</sup> incorrect feedback: Incorrect - Provide information relevant to future planning. Click anywhere and try again.

2<sup>nd</sup> incorrect feedback: Incorrect - Provide estimates of future noise levels and information to protect future land development from becoming incompatible with those noise levels. Click anywhere or click the Forward button to continue.

Slide 3 - Slide 3

Course 200: Traffic Noise Analysis Process

Inform Local Officials



"Local officials" typically means the local planning department with jurisdiction over the project area.

**Audio Script and Notes to Reviewers**

The term "Local officials" typically means the local planning department with jurisdiction over the project area.

**Text Captions**

"Local officials" typically means the local planning department with jurisdiction over the project area.

Slide 4 - Slide 4

Course 200: Traffic Noise Analysis Process

Inform Local Officials



Provide distances from the edge of pavement to the traffic noise impact limits for undeveloped lands.

Provide this information in tabular or graphic format in your report.

G

The image shows a man in a yellow shirt standing in a field. Two callout boxes are overlaid on the image. The first callout box is dark blue and contains the text: 'Provide distances from the edge of pavement to the traffic noise impact limits for undeveloped lands.' The second callout box is light blue and contains the text: 'Provide this information in tabular or graphic format in your report.' In the bottom right corner, there is a circular graphic with a blue border and a white center containing a small image of the field and a red house icon with the letter 'G'.

**Audio Script and Notes to Reviewers**

Specifically, provide distances from the edge of pavement to the traffic noise impact limits for undeveloped lands; for example, sixty-six D-B-A or seventy-one D-B-A. Provide this information in tabular or graphic format in your noise technical report.

**Text Captions**

Provide distances from the edge of pavement to the traffic noise impact limits for undeveloped lands.  
Provide this information in tabular or graphic format in your report.

Slide 5 - Slide 5

Course 200: Traffic Noise Analysis Process

Inform Local Officials



Urban projects may have only limited undeveloped areas that need to be analyzed. You can depict them graphically using contours.

G

The image shows a man in a yellow shirt standing in a field. A speech bubble contains text about urban projects and contours. A circular graphic with a 'G' is in the bottom right corner. The background is a field with trees and a clear sky.

**Audio Script and Notes to Reviewers**

Urban projects may have only limited undeveloped areas that need to be analyzed. You can depict them graphically using contours.

**Text Captions**

Urban projects may have only limited undeveloped areas that need to be analyzed. You can depict them graphically using contours.

Slide 6 - Slide 6

Course 200: Traffic Noise Analysis Process
Inform Local Officials

Location	Distance-to-Edge-of-Pavement	
	66-dB(A)-contour-(ft)	71-dB(A)-contour-(ft)
I-80-East-of-Interchange	650	400
I-80-West-of-Interchange	550	350
48th-St.-North-of-Interchange--divided-highway	180	100
48th-St.-North-of-Interchange--merged-highway-to-Holdrege	120	60
48th-St.-South-of-interchange	250	100
West-O-St.--NW-56th-St.-to-NW-48th-St	270	120
West-O-St.--NW-48th-St.-to-SW-40th-St	190	70
NW-56th-St.	110	40

Conversely, you can break out undeveloped lands along extensive corridors in rural areas by intersection. Present the data in a table format.



**Audio Script and Notes to Reviewers**

Conversely, you can break out undeveloped lands along extensive corridors in rural areas by intersection. Present the data in a table format.

**Text Captions**

Conversely, you can break out undeveloped lands along extensive corridors in rural areas by intersection. Present the data in a table format.

Slide 7 - Slide 7

Course 200: Traffic Noise Analysis Process

Inform Local Officials



We usually notify public officials by including this information in the NEPA document, which local officials typically review, or by including it in a letter.

**Audio Script and Notes to Reviewers**

We usually notify public officials by including this information in the Neepa document, which local officials typically review, or by including it in a letter addressed to them.

**Text Captions**

We usually notify public officials by including this information in the NEPA document, which local officials typically review, or by including it in a letter addressed to them.

Slide 8 - Slide 8

Course 200: Traffic Noise Analysis Process
Inform Local Officials

Question 2 of 2

## Knowledge Check

What type of information about undeveloped land should you provide local officials?

- Distances from the edge of pavement to the traffic noise impact limits
- The number of intersections that will receive noise walls
- Distances from the road centerline to the traffic noise impact limits
- Distances from the clear zone to the traffic noise impact limits

Submit

Incorrect! Provide distances from the edge of pavement to the traffic noise impact limits. Click anywhere or click the Forward button to continue.

**Audio Script and Notes to Reviewers**

Your project includes undeveloped land that is permitted to be developed as a townhouse. Where would you place modeling points?

**Text Captions**

Knowledge Check

What type of information about undeveloped land should you provide local officials?

Correct feedback: Correct - Provide distances from the edge of pavement to the traffic noise impact limits. Click anywhere or click the Forward button to continue.

1<sup>st</sup> incorrect feedback: Incorrect - Provide distance information from the outside boundary of the road. Click anywhere and try again.

2<sup>nd</sup> incorrect feedback: Incorrect - Provide distances from the edge of pavement to the traffic noise impact limits. Click anywhere or click the Forward button to continue.

## Slide 9 - Slide 9

Course 200: Traffic Noise Analysis Process
Inform Local Officials



That completes Module 7, Inform Local Officials. You learned why and when to communicate noise information to local officials.

If you're ready to learn how to prepare your noise report, click the Forward button to continue to Module 8. Or use the Back button to review previous material.

7

### Inform Local Officials

- ◆ NDOT strives to prevent future traffic noise impacts on currently undeveloped lands by informing local officials of estimated future noise levels in the immediate vicinity of the transportation facility.
- ◆ Local communities can use this information to protect future land development from becoming incompatible with anticipated highway noise levels.
  - Provide distances from the edge of pavement to the traffic noise impact limits in tabular or graphic format.
  - Urban projects may have only limited undeveloped areas that need to be analyzed and may be shown graphically using contours.
  - Undeveloped lands along extensive corridors in rural areas may be broken out by intersection and presented in a table.

**Audio Script and Notes to Reviewers**

That completes Module Seven, Inform Local Officials. In this module, you learned why and when to communicate noise information to local officials with jurisdiction over the project area. Here's a quick summary. If you're ready to learn how to prepare your noise report, click the Forward button to continue to Module Eight. Or use the Back button to review previous material first.

**Text Captions**

That completes Module 7, Inform Local Officials. You learned why and when to communicate noise information to local officials.

**Inform Local Officials**

- ◆ NDOT strives to prevent future traffic noise impacts on currently undeveloped lands by informing local officials of estimated future noise levels in the immediate vicinity of the transportation facility.
- ◆ Local communities can use this information to protect future land development from becoming incompatible with anticipated highway noise levels.
  - ◆ Provide distances from the edge of pavement to the traffic noise impact limits in tabular or graphic format.
  - ◆ Urban projects may have only limited undeveloped areas that need to be analyzed and may be shown graphically using contours.
  - ◆ Undeveloped lands along extensive corridors in rural areas may be broken out by intersection and presented in a table.

If you're ready to learn how to prepare your noise report, click the Forward button to continue to Module 8. Or use the Back button to review previous material.