

City of Vaughan

Natural Heritage Network Study

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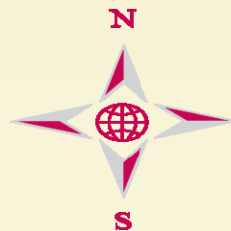
Public Consultation Meeting #1

June 28th, 2012

Multi-purpose Room

Vaughan City Hall

Presented by - Brent Tegler



North-South Environmental Inc.
Specialists in Sustainable Landscape Planning

Natural Heritage Network Goal

Use a science-based approach to identify a NHN consisting of core areas, ecological linkages and enhancement areas that collectively create a robust system providing long-term ecological integrity to protect native biodiversity



Conservation Biology “Systems Approach”

Conservation Biology Principles:

- ❖ *protect the remaining significant natural features*
- ❖ *protect and restore areas to enhance ecological integrity*
- ❖ *protect and restore functional ecological linkages*



Conservation Biology “Systems Approach”

Ecological Features

- ❖ *woodlands*
- ❖ *wetlands*
- ❖ *watercourses*



Ecological Functions

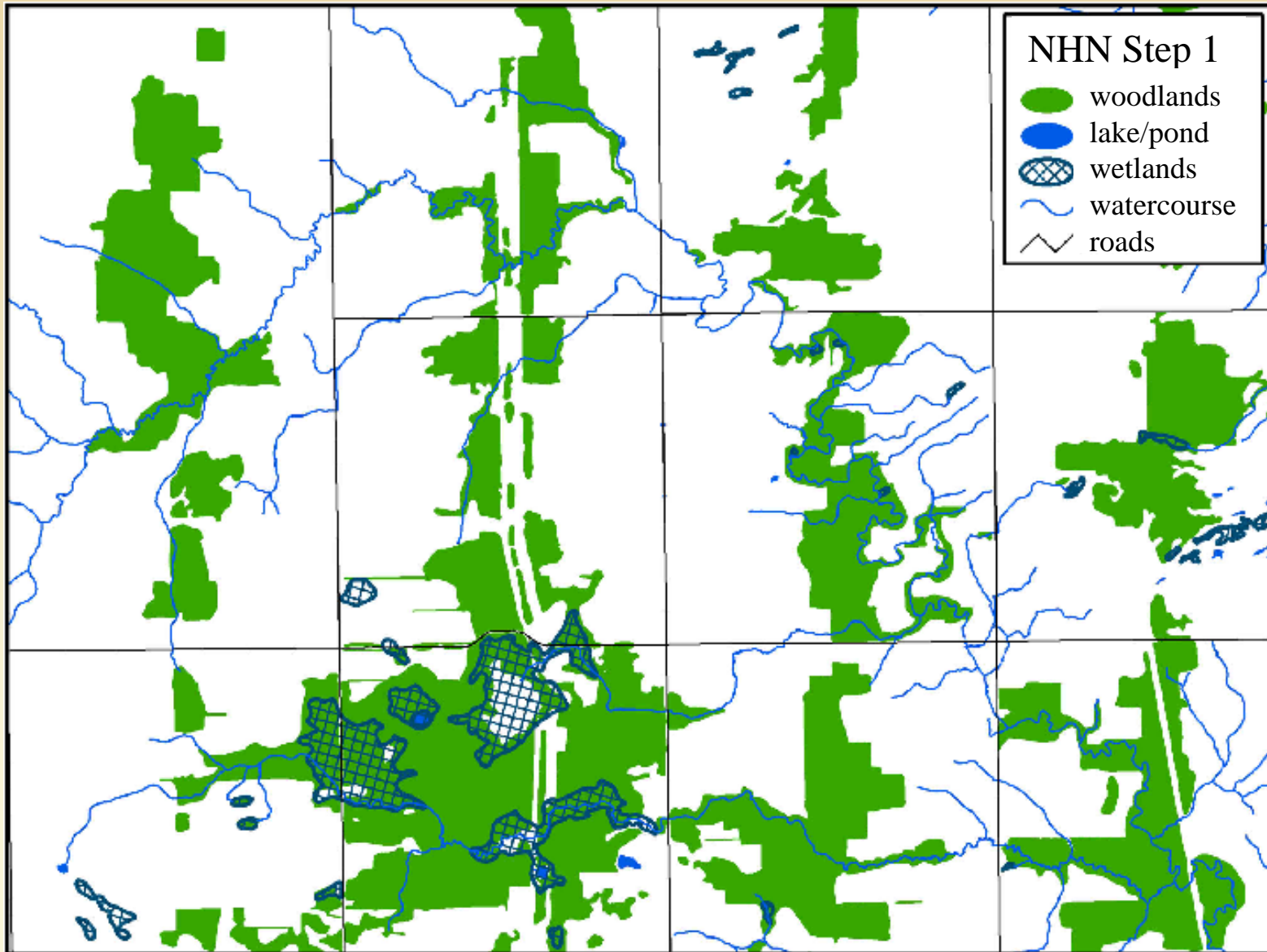
- ❖ *areas for resting, foraging, safety, migrating, overwintering, etc.*
- ❖ *wetlands improve water quality and store/release water*
- ❖ *dense woodlands providing protected winter deer yards*
- ❖ *forest ponds provide amphibian breeding habitat*

Ecological Interactions

- ❖ *daily, seasonal and long term movement patterns*
- ❖ *natural ecological processes fire, wind, flooding, disease, etc.*
- ❖ *plant and animal predation, competition, mutualism, etc.*

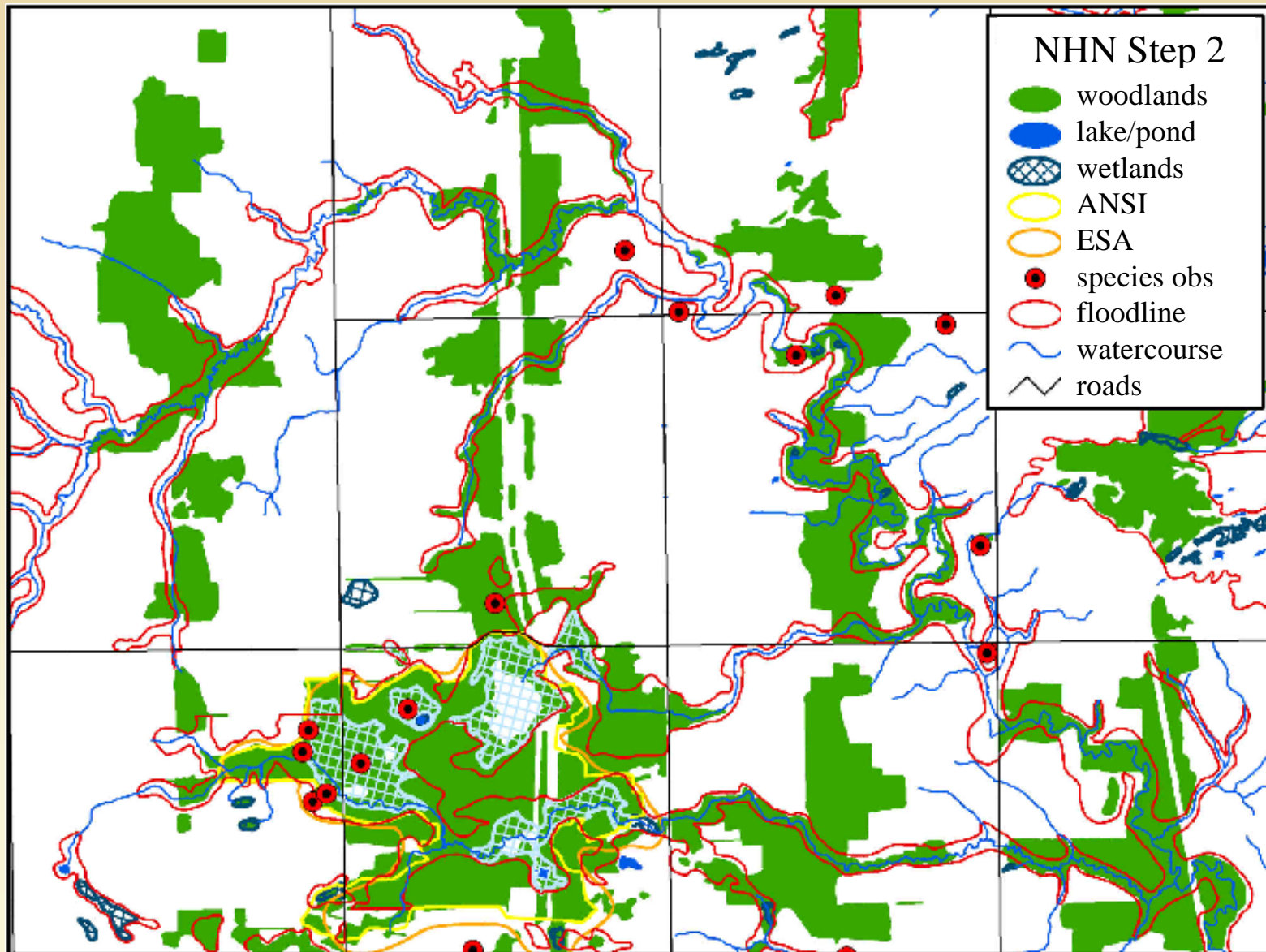
Steps in Building a NHN

Step 1 – Indentify Natural Heritage Features



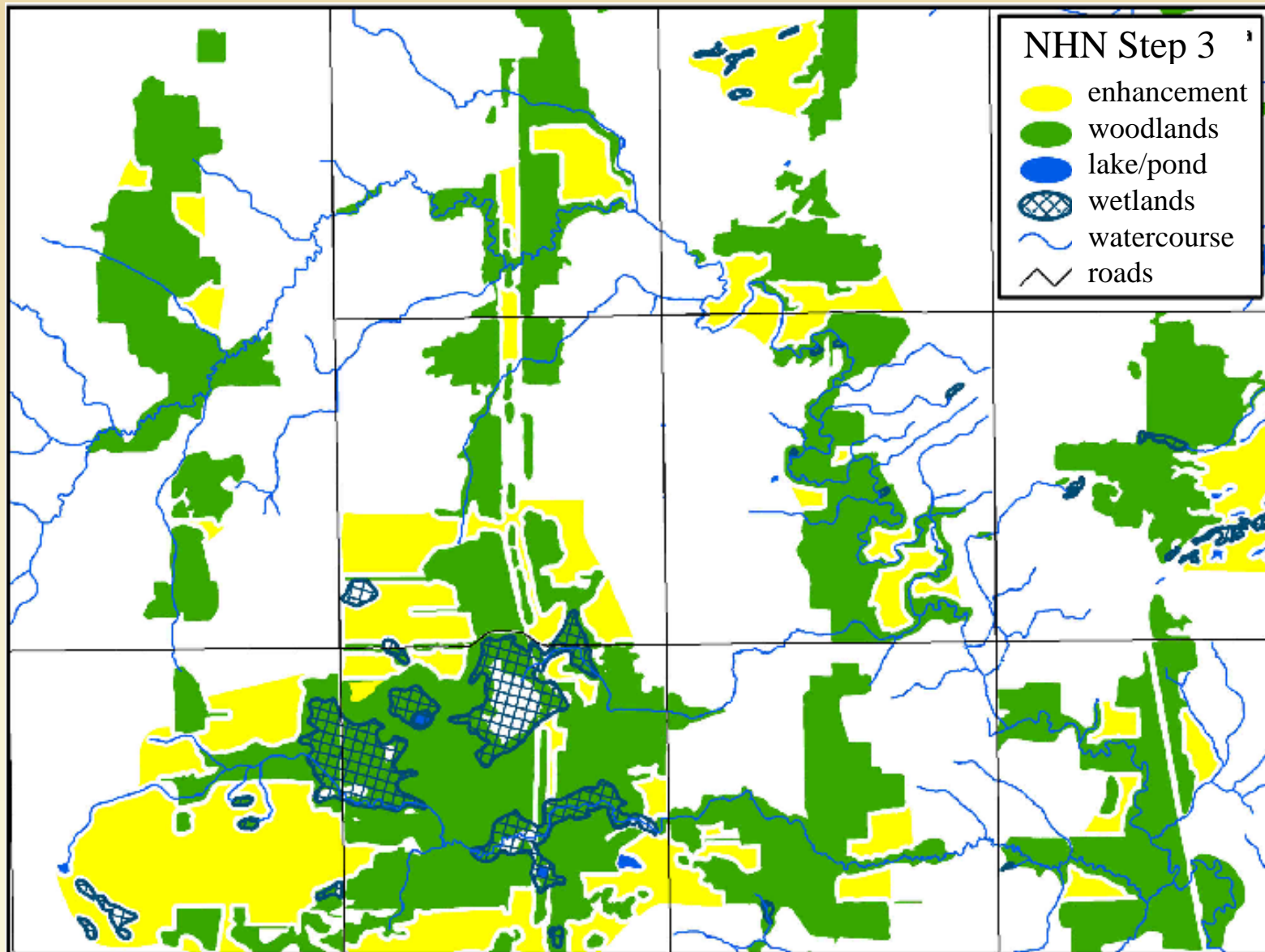
Steps in Building a NHN

Step 2 – Identify Designated Natural Areas & Species



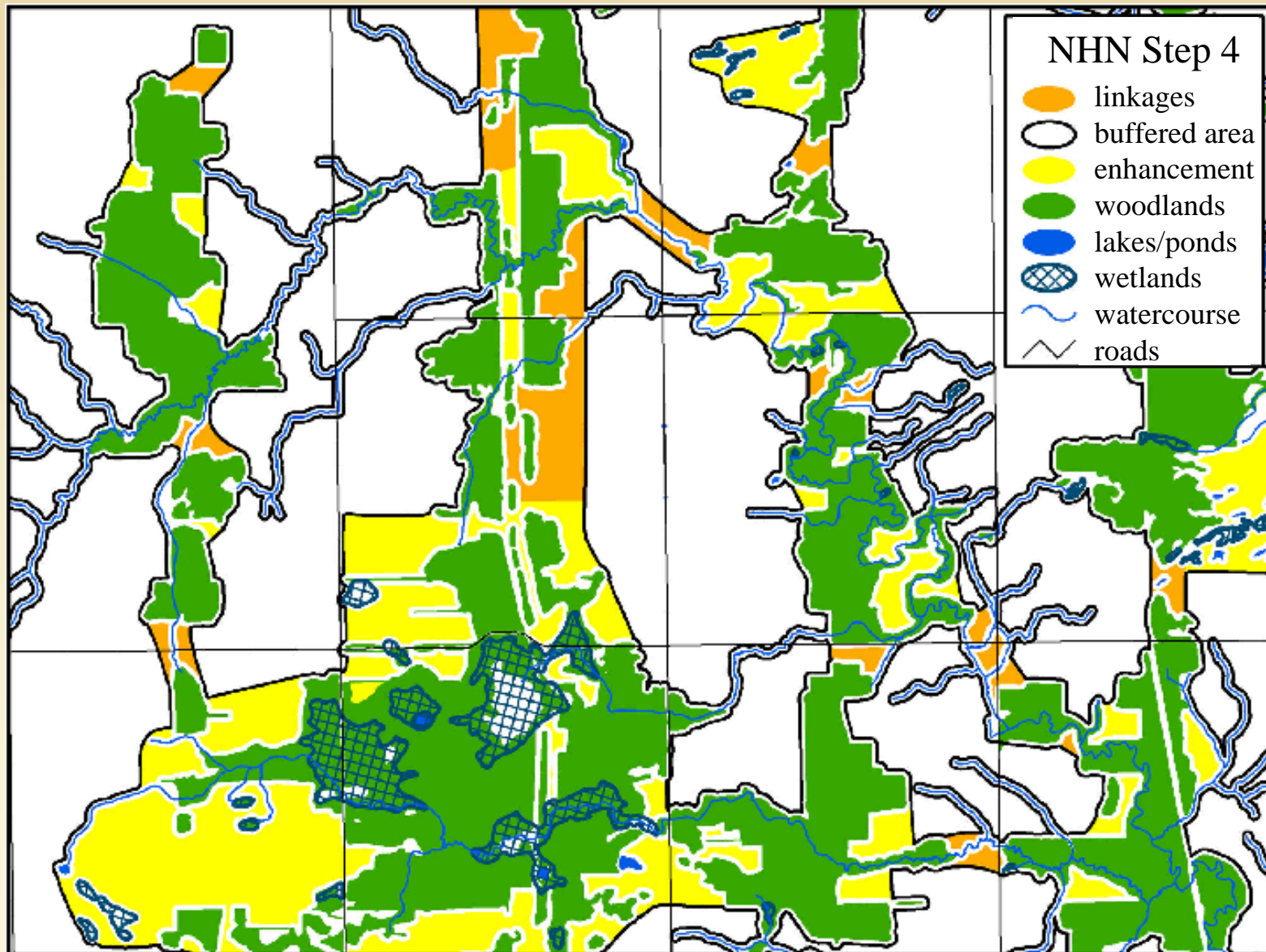
Steps in Building a NHN

Step 3 – Identify Core Areas & Core Area Clusters



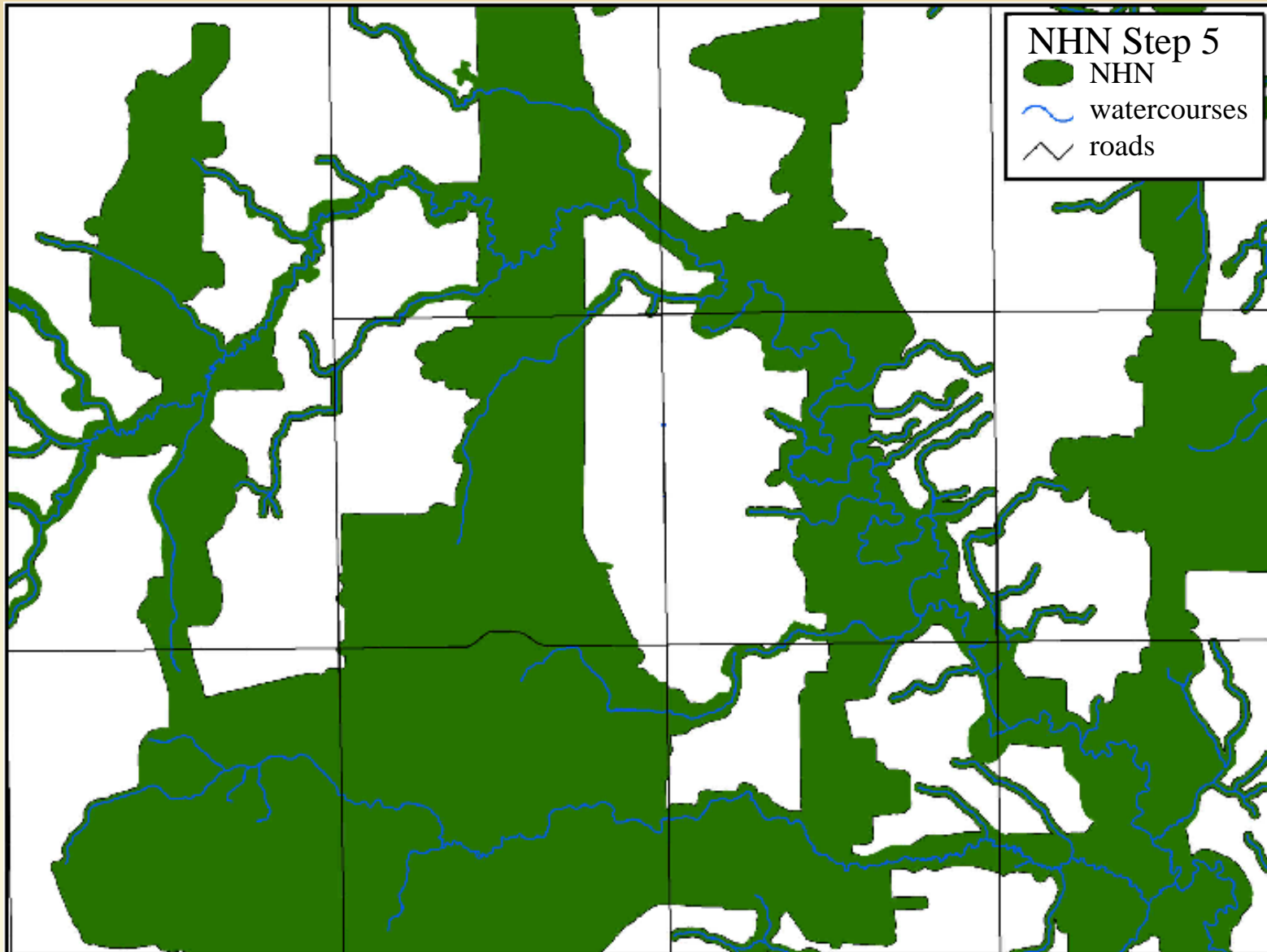
Steps in Building a NHN

Step 4 – Identify Ecological Linkages & Buffers



Steps in Building a NHN

Step 5 – Indentify Natural Heritage Network





North-South Environmental Inc.