



# Land Information Ontario

NRVIS/OLIW Data Management Model For  
**Crown Land - MNR Acquisitions Public (v.1)**

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### ***Additional Information***

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## Preface

For most of the Ontario Government's geospatial information holdings, successful data management is achieved through the process of documenting data standards. This document summarizes the basic data management requirements for specific Land Information Ontario (LIO) Concrete Class(es).

Several corporate applications are used by LIO to manage, disseminate, protect and make accessible where available, all of the geospatial holdings that reside within the Ontario Land Information Warehouse (OLIW). The major applications are:

- Data Standards Repository (DSR)
- Land Information Data Subscription System (LIDS)
- Land Information Publishing System (LIPS)
- Land Information Security Administration System (LISA)
- LIO Internet Mapping Framework (IMF - includes Web Mapping and Web Feature Services)
- Natural Resources Values Information System (NRVIS) Administration
- Ontario Land Information Directory (OLID)

If the information you are looking for is not found in this document, LIO has a Support Team that can answer additional questions about a Concrete Class. This Support Team uses a **three-tiered support model** to assist clients, described below. When a user/client has a question about the dataset, they will initially contact...

### TIER 1

#### **Information Access Helpline**

(705) 755-1878 email: [ljo@ontario.ca](mailto:ljo@ontario.ca)

*If the Helpline staff cannot provide assistance, the request will in be passed on to...*

### TIER 2

#### **\*NRVIS Support Helpline**

Contacts provided by Tier-1

*If NRVIS Support staff cannot provide assistance, they will consult with the Information Owner (IO), and then get back to the client.*

### TIER 3

#### **Dataset Information Owner (IO):**

Contacts provided by Tier-1 or Tier 2

*\* Please note that Tier-2 support is intended for datasets that are maintained by the NRVIS Application. OLIW-only dataset enquiries will be fielded directly to the Information Owner (IO) if assistance cannot be provided by Tier-1 support staff.*

Data Analysis Projects are supported by staff with the Ontario Land and Resources Cluster (LRC), GIS Business Solutions Section (GISBSS), GIS Data Services (GDS)

**Caveat:** The information within this document is relevant to the date it was produced, and may become outdated over time. The Information Owner for this Concrete Class is responsible for updating the OLID metadata record for their information holdings. The reader is encouraged to review the corresponding OLID record to obtain up-to-date information about Concrete Classes. The OLID Metadata record search engine, along with additional information about OLIW itself can be found by visiting their [website](#).

## Background and Context

*A primer about the concrete class that describes what the information looks like, along with an introduction to the business area (Information Owner) that is responsible with its upkeep. Web links to additional supporting material are provided where applicable.*

In February 2005, *Our Sustainable Future* outlined the MNR's commitment to the conservation of biodiversity to ensure healthy ecosystems, protect native species and sustain genetic diversity. Proposed actions to conserve Ontario's biodiversity and enhance resource management in Southern Ontario include continuing to acquire priority natural areas in cooperation with partners and providing incentives to encourage the public to conserve their natural resources.

*Ontario's Biodiversity Strategy (2005)* recommended actions for the period 2005-2010 include:

22. Seek opportunities to establish protected areas that contribute to the completion of a well-designed system of protected areas representative of Ontario's ecosystems:

- In southern Ontario, through stewardship partnerships, securing important private and public properties, and review public lands to determine the potential to establish, and connect where possible, representative protected areas; and

24. Work to re-establish and/or retain natural linkages and connectivity on the landscape between natural areas, including protected areas, with a high priority on reducing landscape-level habitat fragmentation in southern Ontario, through the securement of lands by such mechanisms as conservation easements, donation, purchase, protected areas and/or long-term leases (e.g., Great Lakes Conservation Blueprint, Big Picture 2002, Algonquin to Adirondacks, Greenways Strategy, Conservation Authorities and the Ontario Heritage Foundation).

The MNR is party to the *Canada-Ontario Agreement (COA) Respecting the Great Lakes Basin Ecosystem (2002)*, which outlines the federal and provincial roles, responsibilities and commitments in order to implement the Canada-U.S. *Great Lakes Water Quality Agreement*. Under the COA Lakewide Management Annex, the MNR has committed to "use conservation easements and other tools to secure ecologically significant lands and areas requiring protection" (3.2.4).

A new *Natural Spaces Program* that promotes the protection of greenspace in southern Ontario was announced on August 3, 2005. The *Natural Spaces Program* will develop a "greenspace" strategy for land securement, stewardship activities, natural heritage system mapping, and conservation priorities analysis. A key component of the *Natural Spaces Program* will be land securement, including acquisition. The OMNR will work with the Ontario Heritage Trust, in partnership with the Ontario Ministry of Culture, to acquire and permanently secure significant natural heritage properties across southern Ontario. The Heritage Trust has received a \$6-million grant for the securement and stewardship of natural heritage lands.

## **Information Owner**

An Information Owner is responsible for defining the structure, access and upkeep of their business areas' information assets. They are also responsible in communicating with their stakeholder community and to evaluate their business needs. See 'Contacts' section for Director and main business area contact names.

**Ministry of Natural Resources (MNR),  
Natural Resources Management Division (NRMD),  
Lands and Waters Branch,  
Land Management Section**

**Status:** Established

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## **Concrete Class Details**

### **Crown Land - MNR Acquisitions Public v.1 (CLACQ\_P)**

MNR achieves its organizational goals on privately owned land through a variety of tools or approaches, collectively known as 'land securement'. The focus is on ecological sustainability, including ecosystem health, the protection of natural and cultural assets, recreation, and the protection of people and property. For the purposes of this data class, securement = acquisition including all activities involving a title rights such as fee simple purchase, conservation easements, land donations, bequeaths and land exchanges.

**Contents of this data class has been modified from it's original form for use by OGDE members.**

**Modeling Template:**

**Target Databases:** OLIW (2010) only

**Sensitivity Classification and Rationale:** Non-Sensitive *Public Information*.

**Governance:**

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## **Associated Geographic Unit Types**

Also known as "GUTS", these represent the next level of a concrete class into subtypes. For example, concrete class 'Nesting Site' has a number of "GUTS" defined by species e.g. "Bald Eagle Nesting Site, "Great Blue Heron Nesting Site" etc. With the nesting site example, separate GUTS were created to better manage and control access to data associated with protected and vulnerable bird species.

Grouped by LRC's Sensitivity Classification, with expired GUTS listed at the end.

**Non-Sensitive:** GUT Name (number) – Status

Information classified as "Non-Sensitive" normally does not have any access restrictions and can be viewed by anyone, including the general public.

**Acquisitions Crown Held Acquired (144) – To be Added**

Crown held acquired acquisitions. The acquisition is in title to a crown agency.

**Acquisitions Rejected (143) – To be Added**

A parcel(s) of land that were proposed for acquisition, but have since been rejected, or put on hold.

**Low Sensitivity:** GUT Name (number) – Status

*Information classified as “Non-Sensitive” normally does not have any access restrictions and can be viewed by anyone, including the general public.*

**Acquisitions Non Crown Held Acquired (159) – To be Added**

Non Crown Held acquired parcels. The title is in an agency which is not a ministry or provincial agency. Usually a Environmental NGO.

**Acquisitions Proposed (160) – To be Added**

The first stage in the acquisition process - boundary proposal for acquisition.

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## Contacts

*The following listing identifies staff that helped define all aspects of the concrete class' information requirements and structure.*

**Contact Last name, First name - Position / Org. / Role(s)****Boysen, Eric** - Manager, Land Management

Ministry of Natural Resources (MNR), Natural Resources Management Division (NRMD), Lands and Waters Branch, Land Management Section

Role(s):

**General Contact:** *Assign resources to project.*

**Metadata (OLID):** *Assign resources to metadata.*

**Boysen, Eric** - Manager - Land Management

Ministry of Natural Resources (MNR), Natural Resources Management Division (NRMD), Lands and Waters Branch, Land Management Section

Role(s):

**General Contact:** *Assign resources to project.*

**Metadata (OLID):** *Assign resources to metadata.*

**Gertridge, Donna** - Crown Parcel Specialist

Ministry of Natural Resources (MNR), Science and Information Resources Division (SIRD), Geographic Information Branch (GIB), Geographic Information Ontario

Role(s):

**Maintenance (data):** *Maintenance of crown related lands.*

**NRVIS Administrator:**

**Parker, Cathy** - Acquisition Clerk

Ministry of Natural Resources (MNR), Natural Resources Management Division (NRMD), Lands and Waters Branch, Land Management Section

Role(s):

**Business Area Expert:** *Main contact for business area expertise.*

**Simard, Julie** - Habitat Conservation Biologist

Ministry of Natural Resources (MNR), Natural Resources Management Division (NRMD), Fish and Wildlife Branch (F&W), Biodiversity, Eastern Habitat Joint Venture

Role(s):

**Stakeholder:** *Ensure's EHJV IM requirements are being met.*

**Walsh, Shaun** - Data Analyst

Lands and Resources Cluster (LRC), Business Solution Services, Business Solutions Services East, GIS Data Services

Role(s):

**Data Analyst:**

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## Business Area Use

**Intended Use and Purpose:** To track and report on lands secured by Ministry of Natural Resources or by a partner agency.

Previously crown land was managed in Landownership data class. This data class contributes towards seamless provincial landownership fabric.

Some historical data may be missing.

**Business Drivers:** Ministry of Government Services Act.

Provincial Parks Act (1990) states in section 3(3): 'Land may be acquired under the Ministry of Government Services Act for the purposes of this Act.'

Environmental Assessment Act.

**Use Caveats:** Duplication may occur between this data class and the Crown Land data class if an acquisition has been depatented.

Check the attribute 'Depatented' (y/n) to verify that the polygons are not duplicated.

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## Geospatial Details

*This section describes how the data will be spatially represented.*

Default geospatial reference details for all NRVIS/LIOW concrete classes:

**Grid or Coordinate System:** *Geographic (Lat., Long.)*

**Map Projection:** *Not Applicable*

**Horizontal Datum:** *NAD83*

**Vertical Datum (z-scale):** *Not Applicable*

**Vertical Positional Accuracy:** *Not Applicable*

**NRVIS/OLIW Abstract Class:** SPMNTPOLY

Spatial Multi-Non-Tessellating-Polygon: An object is represented by ONE or MORE polygons. Polygons may NOT overlap. HOLES within and GAPS between polygons ARE allowed. Example: the St. Lawrence Islands National Park, where the Park itself is made up of many islands.



**Geographic Extent:** Province

**Geographic Completeness:**

**Average Horizontal Positional Accuracy:**

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## Data Life-Cycle and Maintenance

*This section provides details about the data's life-cycle*

### Collect

**Responsibility of:** Ministry of Natural Resources (MNR), Natural Resources Management Division (NRMD), Ontario Parks Planning and Research Section

**Agency Location(s):** Peterborough

**Frequency:** Annually?

**Procedures/Standards:** Corporate mapping standards

**Tools/Forms/Applications:** NRVIS, LSD

### Collect

**Responsibility of:** Ministry of Natural Resources (MNR), Natural Resources Management Division (NRMD), Fish and Wildlife Branch (F&W) Biodiversity, Eastern Habitat Joint Venture

**Agency Location(s):** Peterborough

**Frequency:** Annually?

**Procedures/Standards:** Work with partners

**Tools/Forms/Applications:** NRVIS, LSD

### Collect

**Responsibility of:** Ministry of Natural Resources (MNR), Natural Resources Management Division (NRMD), Lands and Waters Branch Land Management Section

**Agency Location(s):** Peterborough

**Frequency:**

**Procedures/Standards:**

**Tools/Forms/Applications:**

### Collect

**Responsibility of:** Ministry of Natural Resources (MNR), Field Services Division (FSD), Southern Region (SR) Regional Planning

**Agency Location(s):** Peterborough, Natural Spaces

**Frequency:** As required

**Procedures/Standards:**

**Tools/Forms/Applications:** NRVIS

### Compile

**Responsibility of:** Ministry of Natural Resources (MNR), Natural Resources Management Division (NRMD), Lands and Waters Branch Land Management Section

**Agency Location(s):** Peterborough

**Frequency:** As required

**Procedures/Standards:** Assemble all partner information and prepare for GIO to attach to polygon.

**Tools/Forms/Applications:** LSD, NRVIS

### Load

**Responsibility of:** Ministry of Natural Resources (MNR), Science and Information Resources Division (SIRD), Geographic Information Branch (GIB)Geographic Information Ontario

Crown Parcel Specialist

**Agency Location(s):** Peterborough

**Frequency:** Monthly

**Procedures/Standards:** Transfer polygons from crown parcel pending, or define boundaries using survey/legal description, or documentation from crown registry office.

**Tools/Forms/Applications:** NRVIS, SNIF

### Publish

**Responsibility of:** NRVIS

**Agency Location(s):** Peterborough

**Frequency:** Nightly, whenever changes to the data class are posted.

**Procedures/Standards:** Automatically by NRVIS

**Tools/Forms/Applications:** NRVIS

### Publish

**Responsibility of:** Ministry of Natural Resources (MNR), Science and Information Resources Division (SIRD), Geographic Information Branch (GIB)Geographic Information Ontario

Crown Parcel Specialist

**Agency Location(s):** Peterborough

**Frequency:** Monthly

**Procedures/Standards:** Check into NRVIS

**Tools/Forms/Applications:** NRVIS

### Maintain

**Responsibility of:** Ministry of Natural Resources (MNR), Science and Information Resources Division (SIRD), Geographic Information Branch (GIB)Geographic Information Ontario

Crown Parcel Specialist

**Agency Location(s):** Peterborough

**Frequency:** As needed

**Procedures/Standards:**

**Tools/Forms/Applications:** NRVIS

### Archive

**Responsibility of:** Land Information Ontario

**Agency Location(s):** Peterborough, ON

**Frequency:** Each time an update to the data is provided to the warehouse.

**Procedures/Standards:**

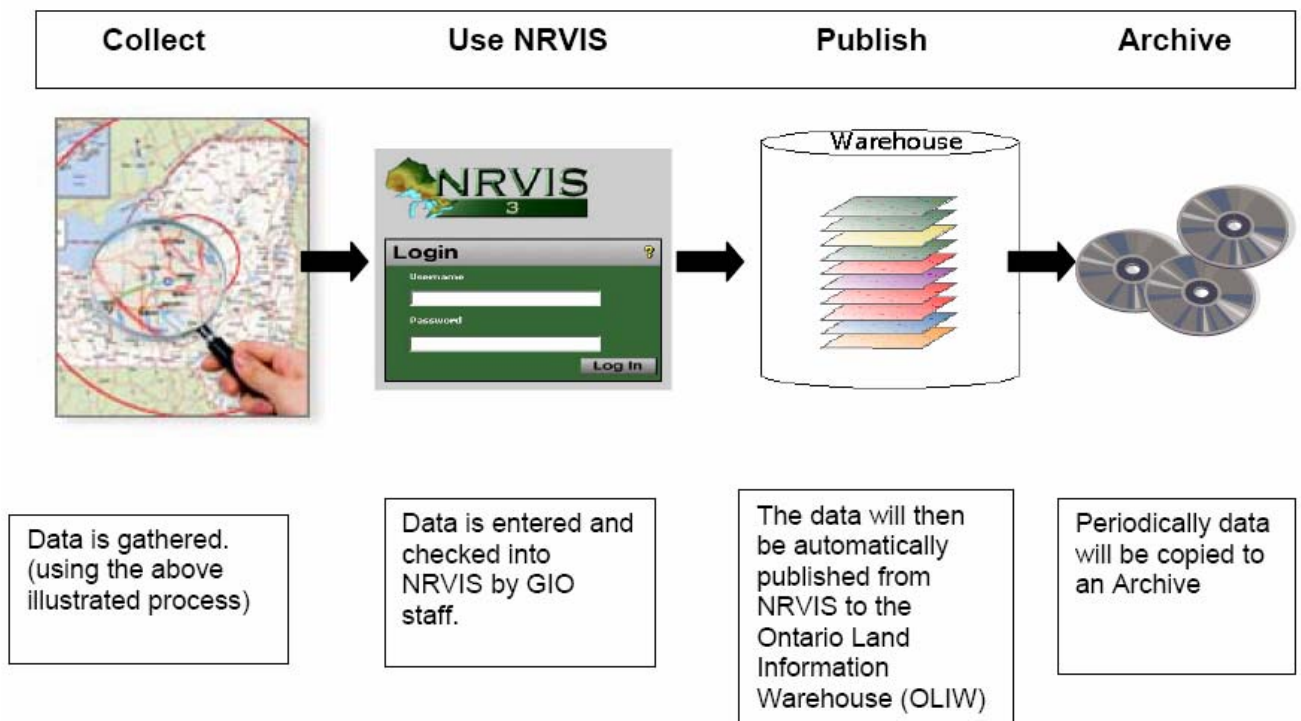
**Tools/Forms/Applications:**

## Data Life-Cycle Diagram

*Diagram summarizing the data life-cycle for this concrete class*

## Maintenance Standards Summary

*Flowchart summarizing all of the maintenance functions detailed in the previous section.*



## Data Access and Services

*This section provides details about the access management to the information stored in this data class. Some of the information documented here governing the scope of access is summarized in the Information Access form that is officially filed with LIO's Information Access Services Section.*

*Due to the nature and origin of the data stored in Concrete Classes, there are often special rules and considerations that control how the data is to be accessed, used and maintained.*

**Data Access Use Restrictions/Constraints:** No restrictions placed on data access or use.

**Data Access Maintenance Restrictions/Constraints:**

**Web Mapping Services (WMS):** No – Secure tables should not be available, as well as Low Sensitivity GUTs.

Should not have a maximum or minimum scale dependency.

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## Physical Model

The implemented database physical data model diagram and data dictionary for this data class can be found in the Standard NRVIS Interchange Format (SNIF) report published to the Land Information Ontario [Data in the Warehouse](#) web page.

As with any data class, model modifications may have taken place post-implementation and after the authoring date of this document. For example, tables, relationships, attributes and/or lookup table/domain values and Geographic Unit Types (GUTS) may be added, redefined or removed. The published SNIF reports found on the LIO website will always reflect the latest implemented version of the data class.

## Modeling Decision Points

*Documents business area and/or physical implementation decision points or recommendations with a rationale that influence how the concrete class is modeled and later implemented. Reviewing these points will often answer questions that may be asked of the model.*