



Land Information Ontario

NRVIS/OLIW Data Management Model For
Waste Management Site (v.1)
Waste Management Attenuation Zone (v.1)

Published Edition

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Additional Information

For more information about this document, please contact Land Information Ontario at (705) 755-1878 or lio@ontario.ca

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Table of Contents

<i>Preface</i>	4
<i>Background and Context</i>	5
Information Owner	5
<i>Concrete Class Details</i>	5
<i>Roles and Responsibilities</i>	6
<i>Business Area Use</i>	6
<i>Geospatial Details</i>	7
<i>Data Maintenance</i>	8
<i>Data Access and Services</i>	8
<i>Physical Model</i>	9
<i>Appendix 1: How to Interpret a Data Model Diagram</i>	10

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 Ontario (LIO)
- Land Information Ontario Warehouse (LIOW) also occasionally referred to as (OLIW)
- Land Information Data Subscription System (LIDS)
- Land Information Publishing System (LIPS)
- Land Information Security Administration System (LISA)
- Internet Mapping Framework (IMF - includes Web Mapping and Web Feature Services)
- Natural Resources Values Information System (NRVIS) Administration
- Metadata Management Tool (MMT)

If the information that you are looking for cannot be found in this document, LIO has a Support Team that can answer additional questions about a Data Class. It follows a **three-tiered support model** to assist clients as follows:

When a user/client has a question about the dataset, they will initially contact...

TIER 1

Information Access Helpline

(705) 755-1878 email: lio@ontario.ca

If the Helpline staff cannot provide assistance, where applicable, 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 appropriate Tier-3 contact Info, and then get back to the client.

TIER 3

Tier-3 support is directed to the appropriate contact based on the nature of the client's enquiry and category:

Application focus – related to programming, application functionality.

Data focus – related to the Information Owner's data, standards and guidelines where a business area expert needs to be consulted.

Tier-3 contacts are consulted or 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 and Enhancement Projects are supported by staff with the Ontario Land and Resources Cluster (LRC), GIS Business Solutions Section (GIS-BSS), 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 metadata record for their information holdings. The reader is encouraged to review the corresponding metadata record to obtain up-to-date information about Concrete Classes. The metadata record search engine, along with additional information about OLIW itself can be found by visiting the [LIOW data page](#).

Background and Context

A primer about the data 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.

The Ministry of Natural Resources is bears the ultimate responsibility to manage waste management sites located on Crown Land. This includes waste sites that are currently operating as well as any closed, abandoned or otherwise related historical locations.

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.

Waste Management Site

**Ministry of Natural Resources (MNR),
Regional Operations Division,
Integration Branch,
Program Coordination Section**

Status: Established

Waste Management Attenuation Zone

**Ministry of Natural Resources (MNR),
Regional Operations Division,
Integration Branch,
Program Coordination Section**

Status: Established

Concrete Class Details

Waste Management Site v.1 (WASTEMST)

Waste management site polygon boundary.

This data class is intended to store the location and essential attributes related to waste management sites of interest to the OMNR - Land Management Section. These are primarily on Crown land and for which the OMNR has an ongoing responsibility for proper management in both the short and long term.

A companion data class, Waste Management Attenuation Zone, should contain the polygon boundary of the attenuation zone associated with the corresponding object in this Waste Management Site data class.

Modeling Template: Simple

Basic Data Class unattached to GEOG_UNIT

Target Databases: NRVIS (v.3.4.7) and OLIV (2010)

Sensitivity Classification and Rationale: Low

There is one minor secure table 'Waste Site Operator' which may contain personal information so it will not distributed and will not be available to Web Services.

Waste Management Attenuation Zone v.1 (WASTEMAZ)

Polygon boundary of the attenuation zone associated with the corresponding object in this Waste Management Site data class. The attenuation zone is the area around a waste management site where any effluent is managed, monitored, treated or otherwise contained.

Apart from a few simple metadata attributes the attenuation zone object inherits most of its attributes from the corresponding object in the Waste Management Site data class.

Modeling Template: Simple

Basic Data Class unattached to GEOG_UNIT

Target Databases: NRVIS (v.3.4.7) and OLIV (2010)

Sensitivity Classification and Rationale: Non-Sensitive

None of the information stored in this concrete class (spatial and attributes) is deemed to be sensitive.

Roles and Responsibilities

The following lists crucial roles and responsibilities that are associated with this data class. These roles are described in further detail in [Appendix-1](#) of this document.

Information Owner - Executive

Branch Director or equivalent

Information Owner - Program

Director

Ministry of Natural Resources (MNR), Regional Operations Division, Integration Branch,
Program Coordination Section

Main Business Area Contact

Provincial Lands Specialist

Ministry of Natural Resources (MNR), Regional Operations Division, Integration Branch,
Program Coordination Section

Provincial Lands Specialist

Ministry of Natural Resources (MNR), Regional Operations Division, Integration Branch,
Program Coordination Section

Business Area Expert

Provincial Lands Specialist

Ministry of Natural Resources (MNR), Regional Operations Division, Integration Branch,
Program Coordination Section

Provincial Lands Specialist

Ministry of Natural Resources (MNR), Regional Operations Division, Integration Branch,
Program Coordination Section

Business Area Use

Waste Management Attenuation Zone

Intended Use and Purpose: Mapping of attenuation zones associated with waste

management sites

Use Caveats: none

Waste Management Site

Intended Use and Purpose: To store sites of interest to the Ministry of Natural Resources where waste is deposited, stored, transferred or processed.

These sites are expected to be mainly on Crown land.

The data will be used to query, map and report on the site objects contained.

Business Drivers: Regulations and legal obligations under Ontario's Public Lands Act and Environmental Protection Act

Use Caveats: None

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*

Waste Management Site

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: Incomplete; most priority sites have been mapped; work ongoing to other sites.

Average Horizontal Positional Accuracy: Within 20 metres

Waste Management Attenuation Zone

NRVIS/OLIW Abstract Class: SPMNTUREGION

Spatial Multi-Non-Tessellating-Unconstrained Region: An object is represented by ONE or MORE polygons. Polygons MAY overlap WITHOUT any restrictions. HOLES within and GAPS between polygons ARE allowed. Example: Forest 'Insect Damage Area'. Mapped 'Spruce Budworm' defoliated areas may overlap 'Forest Tent Caterpillar' damaged areas. Likewise, mapped 'Gypsy Moth' tree mortality areas may overlap mapped other 'Gypsy Moth' defoliated areas from current and previous years.

Geographic Extent: Province

Geographic Completeness: Incomplete; as attenuation zone polygons are mapped and confirmed they can be added to the database.

Average Horizontal Positional Accuracy: Within 20 metres

Data Maintenance

Waste Management Site

Waste site objects will be mapped and attributed by designated land management technicians. Edits to the digital topographic database will take place under the direction of district GSOs.

Waste Management Attenuation Zone

Waste site objects will be mapped and attributed by designated land management technicians. Edits to the digital topographic database will take place under the direction of district GSOs.

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.

Waste Management Site

Data Access Use Restrictions/Constraints: No restrictions placed on data access or use apart from the secure table 'Waste Site Operator' which may contain personal information (i.e. name and address)

Data Access Maintenance Restrictions/Constraints: District GSOs

Web Mapping Services (WMS): Yes

Is a NRVIS View available of the (LIOW) data?: No

NRVIS Administration Details:

Field Data Capture Form: No

Is NDD available for this Data Class?: No

Personal Information Stored: Yes

Area of Responsibility: MNR District

Default NRVIS Access Privileges: MNR District

Waste Management Attenuation Zone

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

Data Access Maintenance Restrictions/Constraints:

Web Mapping Services (WMS): Yes

Is a NRVIS View available of the (LIOW) data?: No

NRVIS Administration Details:

Field Data Capture Form: No

Is NDD available for this Data Class?: Yes

Personal Information Stored: No

Area of Responsibility: MNR District

Default NRVIS Access Privileges: MNR District

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.

Appendix 1: How to Interpret a Data Model Diagram

The chart below provides a basic primer on how to interpret the symbology seen in a model's Entity Relationship Diagram (ERD).

