Land Information Ontario
Data Description

Natural Heritage Values Area

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LIO Class Catalogue

Natural Heritage Values Area

Class Short Name: NHERVALA

Version Number: 4

Class Description:

An area Recommended or Proposed for protection that may be subject to interim protection policies, including Provincial Parks (additions and new), Conservation Reserves (additions and new) and Forest Reserves (additions to Provincial Parks or Conservation Reserves or stand-alone).

Abstract Class Name: SPMNTPOLY

Abstract Class Description:

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.

Natural Heritage Values Area

NATURAL_HERITAGE_AREA_FT

Natural Heritage Values Area: An area that has been recommended or proposed as in interim step towards protection. These include Candidate Conservation Reserve, Candidate Provincial Park, and Forest Reserve. Provincial Parks may be added to by Candidate Provincial Parks or Forest Reserves. Conservation reserves may be added to by Candidate Conservation Reserves or Forest Reserves. Candidate Protected Areas may also become a new Provincial Park or a new Conservation Reserve.

Column Name	Column Type	Mandatory	Short Name	Valid Values
OGF_ID	NUMBER (13,0)	Yes	OGF_ID	
A unique numeric provincial identifier assigned to each object.				
CLASS_SUBTYPE	VARCHAR2 (75)	Yes	SUBTYPE	
The data class subtype - Original GEOG_UNIT_TYPE_NAME.				
CLASS_SUBTYPE_NUM	NUMBER (7,0)	Yes	STYPE_NUM	
The data class subtype number - Original GEOG_UNIT_TYPE_NUM.				
PROTECTED_SITE_IDENT	VARCHAR2 (12)	Yes	SITE_IDENT	
The identifier sanctioned and used by Ontario Parks to uniquely identify land under some form of protection. This identifier is used in the @PAR system, where it is called Site ID.				
PROTECTED_AREA_NAME_ENG	VARCHAR2 (100)	Yes	NAME_ENG	
The official name of a protected area.				
PROTECTED_AREA_NAME_FR	VARCHAR2 (100)	No	NAME_FR	
Name of the protected area. French language.				
COMMON_SHORT_NAME	VARCHAR2 (100)	Yes	SHORT_NAME	
The commonly-used shorter form of an official name.				
IUCN_CATEGORY	VARCHAR2 (3)	No	IUCN_CAT	Ia,Ib,II,III,IV,V,VI
A classification of a protected area by The World Conservation Union (IUCN). The IUCN system discourages the narrow view that protected areas are single-purpose areas, and instead, promotes a broader concept of varying degrees of conservation and development. In addition to strict conservation, scientific research, and wildlife habitat protection, many protected areas have great value in watershed and soil protection, carbon sequestration, recreational benefits, defining indigenous territory, and the maintenance of cultural and spiritual values. Ia: Strict Nature Reserve Ib: Wilderness Area II: National Park III: Natural Monument IV: Habitat/Species Management Areas V: Protected Landscape/Seascape VI: Managed Resource Protected Area				
TYPE_ENG	VARCHAR2 (100)	No	TYPE_ENG	Conservation Reserve, Forest Reserve, Proposed Protected Area, Provincial Park, Recommended Conservation Reserve, Recommended

				Protected Area, … (See PROTECTED_AREA_TYPE_LIST table)

The kind of area that has been given (or is proposed to be given) some level of protection from development and human activity, either through regulation or through the charter of a private land owner such as a conservation authority or NGO. CARTS Description: The type of protected area that is assigned by the source agency. Examples include ecological reserve, national park, private land holding, provincial park, prairie farm rehabilitation area and migratory bird sanctuary. These will often be included in the Protected Area Name field as well. Each jurisdiction will have its own types in the permissible values. The types may include sites with interim protection but will NOT include proposed protected areas.

TYPE_FR	VARCHAR2 (100)	No	TYPE_FR	

The kind of area that has been given (or is proposed to be given) some level of protection from development and human activity, either through regulation or through the charter of a private land owner such as a conservation authority or NGO. CARTS Description: The type of protected area that is assigned by the source agency. Examples include ecological reserve, national park, private land holding, provincial park, prairie farm rehabilitation area and migratory bird sanctuary. These will often be included in the NAME field as well. Each jurisdiction will have its own types in the permissible values. The types may include sites with interim protection but will NOT include proposed protected areas.

STATUS_ENG	VARCHAR2 (75)	No	STATUS_ENG	Forest Reserve, Proposed Conservation Reserve, Proposed Protected Area, Proposed Provincial Park, Recommended Protected Area, Regulated Addition, … (See PROTECTED_AREA_STATUS_LIST table)

An indication of the status as it pertains to the regulation process. An area can have interim protection, meaning it has been withdrawn from mining or forestry, but not yet regulated. CARTS Description: The state of the protected area in terms of its movement towards protection, including interim protection (where provisions of protected area Acts apply), fully protected and gazetted (regulated) sites.

STATUS_FR	VARCHAR2 (75)	No	STATUS_FR	

An indication of the status as it pertains to the regulation process. An area can have interim protection, meaning it has been withdrawn from mining or forestry, but not yet regulated. CARTS Description: The state of the protected area in terms of its movement towards protection, including interim protection (where provisions of protected area Acts apply), fully protected and gazetted (regulated) sites. Describe in french language.

INTERIM_PROTECTION_IND	VARCHAR2 (3)	Yes	INTER_PROT	Yes,No

Indicates whether the area is under some form of protection while it is in the planning process for protection.

PROTECTED_AREA_SIZE_ESTIMATE	NUMBER (8,0)	Yes	SIZE_EST	

The preliminary size in hectares (ha) of a protected area recommended from a planning exercise or initiative. This includes new protected areas and additions to existing areas. Historically this size has been put forward based on a Provincial or regional map scales and is subject to change when more detailed boundary info rmation becomes available.

PROTECTION_INITIATIVE	VARCHAR2 (60)	No	INITIATIVE	

PROVINCIAL_PARK_CLASS_ENG	VARCHAR2 (20)	No	CLASS_ENG	Historical, Natural Environment, Nature Reserve, Recreation, Unclassified, Waterway, … (See PROV_PARK_CLASS_LIST table)

A classification system arising from the formal recognition that different types of parks are necessary to protect different types of resources and environments, and to provide different types of recreational experiences.

PROVINCIAL_PARK_CLASS_FR	VARCHAR2 (50)	No	CLASS_FR	

A classification system based on the resource type. May provide for protection of different types of resources, environments, and to provide various types of recreational experiences. French language translation.

RELATED_CLASS_SHORT_NAME	VARCHAR2 (8)	No	CLASS_NAME	

PARENT_ID	NUMBER (13,0)	No	PARENT_ID	

Foreign key to related parent object.

SYSTEM_CALCULATED_AREA	NUMBER (16,3)	No	SYS_AREA	

The area of a polygon measured in square metres by the system.

GENERAL_COMMENTS	VARCHAR2 (2000)	No	GNL_CMT	

General comments.

GEOMETRY_UPDATE_DATETIME	DATE	No	GEO_UPD_DT	

Date/time the geometry was created or last modified in the source database.

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	

Date/time the record was created or last modified in the source database.

OVERLAY_IND	VARCHAR2 (3)	Yes	OVERLAY	Yes, No

Indicates whether a land use area is subject to an overlay. If the value is "Yes" then the land use area is subject to an overlay(s). Overlays modify the policies of the underlying primary land use areas. The overlay policy takes priority to the primary policy. Overlay area boundaries generally do not match the primary land use area boundaries and may overlap more than one primary land use area. The policy report for the overlay area is accessed through the underlying primary land use area's policy report.

CLASS_DATABASE_REFERENCE

A link to an external database or an internal object in the same database.

Column Name	Column Type	Mandatory	Short Name	Valid Values
OGF_ID	NUMBER (13,0)	Yes	OGF_ID	

A unique numeric provincial identifier assigned to each object.

INTERNAL_EXTERNAL_FLG	VARCHAR2 (10)	Yes	INT_EXT	Internal, External

A flag indicating if the database being referenced is internal (NRVIS/LIO) or external.

DATABASE_REFERENCE_IDENT	VARCHAR2 (50)	Yes	IDENT	

Identifier of a reference that is linked e.g. Land Use Permit Number, LIS Number, the FMF Object ID of a Concrete Class.

CLASS_SHORT_NAME	VARCHAR2 (8)	Yes	CLASS_NAME	

Static short name that will be used by for the concrete class.

| DATABASE_REFERENCE_DETAIL | VARCHAR2 (2000) | No | DETAIL | |

Details on the rationale, use, dependency, or comments on the database reference. If a dependence on other data class geometry exists, this can be identified in this field.

| RELATED_CLASS_SHORT_NAME | VARCHAR2 (8) | No | CLASS_NAME | |

The static short name that is used by the related concrete class.

| EXT_REF_TYPE_CODE | VARCHAR2 (8) | No | EXT_TYPE | |

The type of external database that the identifier pertains to e.g. LUPS, LIS, etc.

| TYPE_OTHER_DESCR | VARCHAR2 (60) | No | OTH_DESCR | |

A full description of the type when set to "other".

| EFFECTIVE_DATETIME | DATE | Yes | EFF_DATE | |

Date/time the record was created or last modified in the source database.

CLASS_JUSTIFICATION

The justification for the addition of or changes to a geographic feature.

Column Name	Column Type	Mandatory	Short Name	Valid Values
OGF_ID	NUMBER (13,0)	Yes	OGF_ID	

A unique numeric provincial identifier assigned to each object.

| JUSTIFICATION_REASON | VARCHAR2 (2000) | Yes | REASON | |

Reason for justification of the existence of a geographic feature.

| CLASS_SHORT_NAME | VARCHAR2 (8) | Yes | CLASS_NAME | |

System-generated column denoting the data class which this record is part of.

| JUSTIFICATION_DATE | DATE | Yes | JUSTIF_DT | |

Date that the geographic feature was justified.

| EFFECTIVE_DATETIME | DATE | Yes | EFF_DATE | |

Date/time the record was created or last modified in the source database.

CLASS_OTHER_INFORMATION

This table allows the NRVIS/LIO users to enter local-needs type of information, currently not captured in the NRVIS or LIO database. The table content will be analysed periodically to determine if the field(s) should be incorporated into the regular data class structure.

Column Name	Column Type	Mandatory	Short Name	Valid Values
OGF_ID	NUMBER (13,0)	Yes	OGF_ID	

A unique numeric provincial identifier assigned to each object.

Column Name	Column Type	Mandatory	Short Name	Valid Values
FIELD_NAME	VARCHAR2 (30)	Yes	FIELD_NAME	

The attribute name for the information.

CLASS_SHORT_NAME	VARCHAR2 (8)	Yes	CLASS_NAME	

System-generated column denoting the concrete class which this record is part of.

FIELD_TYPE	VARCHAR2 (8)	Yes	FIELD_TYPE	String, Integer, Double

The type of field.

FIELD_VALUE_STRING	VARCHAR2 (50)	No	VALUE_S	

A field used to store character strings.

FIELD_VALUE_INTEGER	NUMBER (5,0)	No	VALUE_I	

A field used to store integer values (small numbers).

FIELD_VALUE_DOUBLE	NUMBER (10,3)	No	VALUE_D	

A field used to store decimal data with up to two decimals.

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	

Date/time the record was created or last modified in the source database.

CLASS_PARTY_ROLE

A link to an external contact database.

Column Name	Column Type	Mandatory	Short Name	Valid Values
OGF_ID	NUMBER (13,0)	Yes	OGF_ID	

A unique numeric provincial identifier assigned to each object.

PARTY_IDENT	VARCHAR2 (25)	Yes	PARTY_ID	

An identifier for a party (group or individual). It should reference an identifier in an external database which would contain further information. The identifier should not contain personal information (i.e. Social Insurance Number, Outdoors Card Number, phone number, name etc.).

PARTY_DATABASE	VARCHAR2 (100)	Yes	PARTY_DB	

The database that contains the party information.

ROLE_TYPE	VARCHAR2 (50)	Yes	ROLE_TYPE	Affiliated With, Approver, Authority Holder, Claim Holder, Contact, Contractor, … (See ROLE_TYPE_LIST table)

The role that an organization or an individual plays.

CLASS_SHORT_NAME	VARCHAR2 (8)	Yes	CLASS_NAME	

System-generated column denoting the concrete class which this record is part of.

ROLE_DETAIL	VARCHAR2 (200)	No	DETAIL

Additional details about the role.

START_DATE	DATE	No	START_DATE

The date when a Party starts to play a Role.

END_DATE	DATE	No	END_DATE

The date when a Party ceases to play a Role.

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE

Date/time the record was created or last modified in the source database.

CLASS_SOURCE

Intersection table between the data class and Source List table.

CLASS_SUPPORTING_MATERIAL

Material (document/file/picture) that provides more information on a geographic feature.

Column Name	Column Type	Mandatory	Short Name	Valid Values
OGF_ID	NUMBER (13,0)	Yes	OGF_ID	

A unique numeric provincial identifier assigned to each object.

MATERIAL_NAME	VARCHAR2 (200)	Yes	NAME	

A name or brief description of the material.

MATERIAL_LOCATION	VARCHAR2 (200)	Yes	LOCATION	

The location where the supporting material is stored. This may be a physical location or a link to a storage location.

CLASS_SHORT_NAME	VARCHAR2 (8)	Yes	CLASS_NAME	

System-generated column denoting the concrete class which this record is part of.

URL_ENG	VARCHAR2 (500)	No	URL_ENG	

The address of a computer or a document in English on the Internet that consists of a communications protocol followed by a colon and two slashes (as http://), the identifier of a computer (as www.m-w.com) and usually a path through a directory to a file -- called also universal resource locator.

URL_FRE	VARCHAR2 (500)	No	URL_FRE	

The address of a computer or a document in French on the Internet that consists of a communications protocol followed by a colon and two slashes (as http://), the identifier of a computer (as www.m-w.com) and usually a path through a directory to a file -- called also universal resource locator.

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	

Date/time the record was created or last modified in the source database.

EXTERNAL_REF_TYPE_LIST

List of valid EXTERNAL_REFERENCE_TYPE codes.

PROTECTED_AREA_STATUS_LIST

Lookup table to describe the status of the protected area in terms of the regulation process or degree of protection.

Column Name	Column Type	Mandatory	Short Name	Valid Values
STATUS_ENG	VARCHAR2 (75)	Yes	STATUS_ENG	

An indication of the status as it pertains to the regulation process. An area can have interim protection, meaning it has been withdrawn from mining or forestry, but not yet regulated. CARTS Description: The state of the protected area in terms of its movement towards protection, including interim protection (where provisions of protected area Acts apply), fully protected and gazetted (regulated) sites.

Column Name	Column Type	Mandatory	Short Name	Valid Values
STATUS_FR	VARCHAR2 (75)	Yes	STATUS_FR	

An indication of the status as it pertains to the regulation process. An area can have interim protection, meaning it has been withdrawn from mining or forestry, but not yet regulated. CARTS Description: The state of the protected area in terms of its movement towards protection, including interim protection (where provisions of protected area Acts apply), fully protected and gazetted (regulated) sites. Describe in french language.

Column Name	Column Type	Mandatory	Short Name	Valid Values
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	

Date/time the record was created or last modified in the source database.

Column Name	Column Type	Mandatory	Short Name	Valid Values
EXPIRY_DATETIME	DATE	No	EXP_DATE	

Date/time that the record was expired from use.

PROTECTED_AREA_TYPE_LIST

Lookup table to describe protected area types.

Column Name	Column Type	Mandatory	Short Name	Valid Values
TYPE_ENG	VARCHAR2 (100)	Yes	TYPE_ENG	

The kind of area that has been given (or is proposed to be given) some level of protection from development and human activity, either through regulation or through the charter of a private land owner such as a conservation authority or NGO. CARTS Description: The type of protected area that is assigned by the source agency. Examples include ecological reserve, national park, private land holding, provincial park, prairie farm rehabilitation area and migratory bird sanctuary. These will often be included in the Protected Area Name field as well. Each jurisdiction will have its own types in the permissible values. The types may include sites with interim protection but will NOT include proposed protected areas.

Column Name	Column Type	Mandatory	Short Name	Valid Values
TYPE_FR	VARCHAR2 (100)	Yes	TYPE_FR	

The kind of area that has been given (or is proposed to be given) some level of protection from development and human activity, either through regulation or through the charter of a private land owner such as a conservation authority or NGO. CARTS Description: The type of protected area that is assigned by the source agency. Examples include ecological reserve, national park, private land holding, provincial park, prairie farm rehabilitation area and migratory bird sanctuary. These will often be included in the NAME field as well. Each jurisdiction will have its own types in the permissible values. The types may include sites with interim protection but will NOT include proposed protected areas.

Column Name	Column Type	Mandatory	Short Name	Valid Values
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	

Date/time the record was created or last modified in the source database.

Column Name	Column Type	Mandatory	Short Name	Valid Values
EXPIRY_DATETIME	DATE	No	EXP_DATE	

Date/time that the record was expired from use.

PROV_PARK_CLASS_LIST

List of valid Provincial Park Classes.

Column Name	Column Type	Mandatory	Short Name	Valid Values
PROVINCIAL_PARK_CLASS_ENG	VARCHAR2 (20)	Yes	CLASS_ENG	

A classification system arising from the formal recognition that different types of parks are necessary to protect different types of resources and environments, and to provide different types of recreational experiences.

Column Name	Column Type	Mandatory	Short Name	Valid Values
PROVINCIAL_PARK_CLASS_FR	VARCHAR2 (50)	Yes	CLASS_FR	

A classification system based on the resource type. May provide for protection of different types of resources, environments, and to provide various types of recreational experiences. French language translation.

Column Name	Column Type	Mandatory	Short Name	Valid Values
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	

Date/time the record was created or last modified in the source database.

Column Name	Column Type	Mandatory	Short Name	Valid Values
EXPIRY_DATETIME	DATE	No	EXP_DATE	

Date/time that the record was expired from use.

ROLE_TYPE_LIST

List of valid party role types.

Column Name	Column Type	Mandatory	Short Name	Valid Values
ROLE_TYPE	VARCHAR2 (50)	Yes	ROLE_TYPE	

The role that an organization or an individual plays.

Column Name	Column Type	Mandatory	Short Name	Valid Values
ROLE_TYPE_DESCR	VARCHAR2 (2000)	Yes	DESCR	

Description of Role Type.

Column Name	Column Type	Mandatory	Short Name	Valid Values
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	

Date/time the record was created or last modified in the source database.

Column Name	Column Type	Mandatory	Short Name	Valid Values
EXPIRY_DATETIME	DATE	No	EXP_DATE	

Date/time that the record was expired from use.

SOURCE_LIST

A description of the source information that is the basis for creating or changing information about a geographic feature. In may be an observation, possibly resulting from a field survey or an adhoc report or a reference to a published or unpublished document.

Column Name	Column Type	Mandatory	Short Name	Valid Values
SOURCE_NAME	VARCHAR2 (100)	Yes	NAME	

The name of the source.

SOURCE_DATE	VARCHAR2 (50)	No	SRC_DATE

The date of the source.

SOURCE_ORIGINATOR	VARCHAR2 (75)	No	ORIGINATOR

The originator or author of the source. Includes the author(s) of a book; the originator(s) of a survey or project, etc.Examples: Smith, J. Smith, J. and Jones, K. Smith, J., Jones, K. and White, T. Anon. (where no author identified) OMNR (where authorship is corporate) Northwest District (lead and delivered the data collection project)

SOURCE_SCALE	VARCHAR2 (15)	No	SCALE

The scale of the vector base or aerial photography, the cell resolution of a grid, or the pixel resolution of an image used to record the location of the feature. Examples: For a vector source or aerial photography: 1:10,000 1:20,000 1:250,000. For a grid or imagery source: 1 km, 10 m, 15 seconds.

HORIZONTAL_DATUM	VARCHAR2 (10)	No	H_DATUM

Identifies the reference system used for defining the coordinates of points. There are three common horizontal datum systems used in Ontario: NAD83, NAD27, NAD27 with 1974 adjustment. The datum models the shape of the earth.

VERTICAL_DATUM	VARCHAR2 (30)	No	V_DATUM

The zero surface to which elevations or heights are referred is called a vertical datum. Traditionally, surveyors and mapmakers have tried to simplify the task by using the average (or mean) sea level as the definition of zero elevation, because the sea surface is available worldwide. MSL is a close approximation to another surface, defined by gravity, called the geoid, which is the true zero surface for measuring elevations. Example: WGS-84 EGM96 Geoid.

SOURCE_PROJECTION	VARCHAR2 (40)	No	PROJECTION

The name of a systematic representation of all or part of the surface of the Earth on a plane or developable surface.

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE

Date/time the record was created or last modified in the source database.

EXPIRY_DATETIME	DATE	No	EXP_DATE

Date/time that the record was expired from use.

LIO Lookup Table Values:

EXTERNAL_REF_TYPE_LIST

EXT REF TYPE CODE	EXT REF TYPE DESCR	EXPIRY DATETIME
ALPS	Aggregate Licence Permit Database	
AMIS	Abandoned Mines Database	
ARFIS	Algonquin Region Forest Database	
BCD	Biological and Conservation Database	
DTDB	Digital Topographic Database	
FISHARC	Fisheries Data Archive	
FISHLIB	Fisheries Information Library	
FRI	Forest Resources Inventory Database	
IF	Internal Filing	
LIS	Land Index System	
LUP	Land Use Permit	
NADB	Natural Areas Database	
NTDB	National Topographic Database	
NWEIMS	Wetland Evaluation Information Management Database (North)	
OBM	Ontario Base Map Database	
OFIS	Ontario Fisheries Information Database	
OLI	Ontario Land Inventory	
OPDS	Ontario Petroleum Database	
OTHER	Other External Reference	
PER	Permit	
RBT	Resource Based Tourism Licence	
SFMM	Sustainable Forest Management Model	
WEIMS	Wetland Evaluation Information Management Database (South)	
^	NRVIS 2.0 Data Conversion	1999-11-05

LIO Lookup Table Values:

PROTECTED_AREA_STATUS_LIST

STATUS ENG	STATUS FR	EXPIRY DATETIME
Forest Reserve	Réserve forestière	
Proposed Conservation Reserve	Réserve de conservation proposée	
Proposed Protected Area	Zone proposée aux fins de protection	
Proposed Provincial Park	Parc provincial proposé	
Recommended Protected Area	Zone recommandée aux fins de protection	
Regulated Addition	Ajout réglementé	
Regulated Conservation Reserve	Réserve de conservation réglementé	
Regulated Provincial Park	Parc provincial réglementé	
Regulated Wilderness Area	Région sauvage réglementé	

LIO Lookup Table Values:

PROTECTED_AREA_TYPE_LIST

TYPE ENG	TYPE FR	EXPIRY DATETIME
Conservation Reserve	Réserve de conservation	
Forest Reserve	Réserve forestière	
Proposed Protected Area	Zone recommandée aux fins de protection	
Provincial Park	Parc provincial	
Recommended Conservation Reserve	Réserve de conservation recommandée	
Recommended Protected Area	Zone recommandée aux fins de protection	
Recommended Provincial Park	Parc provincial recommandé	
Regulated Addition	Ajout réglementé	
Wilderness Area	Région sauvage	

LIO Lookup Table Values:

PROV_PARK_CLASS_LIST

PROVINCIAL PARK CLASS ENG	PROVINCIAL PARK CLASS FR	EXPIRY DATETIME
Historical	Historique	
Natural Environment	Environnement naturel	
Nature Reserve	Réserve naturelle	
Recreation	Loisirs	
Unclassified	Non classée	
Waterway	Voie navigable	
Wilderness	Région sauvage	

LIO Lookup Table Values:

ROLE_TYPE_LIST

ROLE TYPE	ROLE TYPE DESCR	EXPIRY DATETIME
Affiliated With	This role type indicates that the related "from" Party (Individual or Group) has a relationship with the related "to" Party that is not more explicitly covered by another role type.	
Approver	This role type indicates that the related Party (Individual or Group) is one that has approved action associated with the related item. For example, if the related item is an Authority (License, permit, etc.) this would indicate the Party that approved the issuance of the Authority; if the related item is a Recommended Action this would indicate the Party that approved the initiation of the action; etc.	
Authority Holder	This role type indicates that the related Party (Individual or Group) is the one to which the Ministry has issued the related Authority (license, permit, etc.).	
Claim Holder	This role type indicates that the related Party (Individual or Group) is the one that is the registered owner of the related Mining Claim (area).	
Contact	This role type indicates that the related "from" Party (Individual or Group) is the designated point of contact for communication with the related "to" Party.	
Contractor	N/A	
Custodian	This role type indicates that the related Party (Individual or Group) is responsible for the care of the related Geographic Unit.	
Data Provider	This role type indicates that the related Party (Individual or Group) is the provider of a data source about the related Geographic Unit.	
Employee	This role type indicates that the related "from" Party (an Individual) is employed by the related "to" Party (a Group).	
Evaluator	This role type indicates that the related Party (Individual or Group) is the one who has evaluated the related Geographic Unit.	
Group Member	This role type indicates that the related "from" Party (Individual or Group) is a member of the related "to" Party (a Group). This could include membership in a Local Citizens Committee or a designated interest group.	
Information Holding Custodian	This role type indicates that the related Party (Individual or Group) is responsible for the storage and protection of the related Information Holding.	
Interested Party	This role type indicates that the related Party (Individual or Group) has a stated interest in a related Issue; or has a stated interest in plans and activities involving the related Geographic Unit.	
Issuer	This role type indicates that the related Party (Individual or Group)	

	is one that has issued the related Authority (license, permit, etc.).	
Lease Holder	This role type indicates that the related Party (Individual or Group) has occupancy rights to the related Geographic Unit for the period and according to the terms of a lease agreement.	
Manager	This role type indicates that the related "from" Party (Individual or Group) manages or directs the activities of the related "to" Party (the "to" Party reports to or is accountable to the "from" Party); or manages the operation of the related Geographic Unit (e.g., a Tourism Establishment).	
Metadata Custodian	This role type indicates that the related Party (Individual or Group) is responsible for the storage and protection of the information ABOUT the related Information Holding. Note: There is a separate role type for the custodian of the information holding itself.	
Observer	This role type indicates that the related Party (Individual or Group) is the one who made the observations in the related Information Source.	
Operator	This role type indicates that the related Party (Individual or Group) operates the related Geographic Unit facility (e.g., Tourism Establishment, Mill).	
Owner	This role type indicates that the related Party (Individual or Group) owns the related Geographic Unit (e.g., Tourism Establishment).	
Partner	This role type indicates that the related "from" Party (Individual or Group) has a partnership arrangement with the related "to" Party.	
Steward	This role type indicates that the related "from" Party (Individual or Group) is responsible for assisting the Ministry with respect to the management of resources within the related Geographic Unit.	
Supervisor	This role type indicates that the related "from Party (Individual or Group) supervises the activities of the related "to" Party.	
Verifier	N/A	

LIO Lookup Table Values:

SOURCE_LIST

SOURCE NAME	SOURCE DATE	SOURCE ORIGINATOR	SOURCE SCALE	HORIZONTAL DATUM	VERTICAL DATUM	SOURCE PROJECTION	EXPIRY DATETIME
AFFM Provincial Administrative Maps		Ministry of Natural Resources	600000				
Aerial Photography		Ministry of Natural Resources	15840				
Aerial Survey							
Book/Publication							
CIR Photograpy		Ministry of Natural Resources					
City of Ottawa Borehole Database	1883 - 2006	City of Ottawa	Varies		Mean Average Sea Level	Geodetic and UTM	
Digital File							
Digital Map							
Field Survey\Site Visit							
File System/Filing Cabinet Information							
Forest Resources Inventory		Ministry of Natural Resources		NAD27		UTM	
GPS Data Collection							
Hard Copy/Paper Map							
IKONOS Multispectral		Ministry of Natural Resources					
IKONOS Panchromatic		Ministry of Natural Resources					
IRS Multispectral		Ministry of Natural Resources					
IRS Panchromatic		Ministry of Natural Resources					
IRS Pansharpened		Ministry of Natural Resources					

Landsat-1,2,3 MSS		Ministry of Natural Resources					
Landsat-4,5 MSS		Ministry of Natural Resources					
Landsat-7 ETM		Ministry of Natural Resources					
Local Borehole Drilling Program Results	2006	Ministry of Northern Development and Mines			Mean Average Sea Level		
Local Knowledge							
MNDM Assesment File							
MNDM Client/Company Information							
MNR Based Observation							
MTO Engineering Reports	Varies	Ministry of Transportation	Varies		Mean Average Sea Level		
NRCan - CanVec	2008	Natural Resources Canada	50000	NAD83			
NRCan - National Hydro Network	2008	Natural Resources Canada	50000	NAD83			
NTS Map 1:250000	1970 to 2003	Department of Natural Reosurces	250000	NAD27			
NTS Map 1:50000	1970 to 2003	Department of Natural Resources	50000	NAD27			
Ontario Base Map 1:10000	1978 to 1995	Ministry of Natural Resources	10000	NAD27		UTM	
Ontario Base Map 1:20000	1978 to 1995	Ministry of Natural Resources	20000	NAD27		UTM	
Ontario Geological Survey Fieldwork Mapping	Varies to 2004	Ontario Geological Survey	1:50,000	NAD83	Mean Average Sea Level	Universal Transvers Mercator	
Ontario Parcel				NAD83			
OrthoImagery		Ministry of Natural Resources					
Public Observation							

Quaternary Geology Study	Varies	Ministry of Northern Development and Mines			Mean Average Sea Level		
Unknown	11-12-02						
Urban Geology Automated Information System (UGAIS)	1956-1972	Geological Survey of Canada	Varies	NAD27	Mean Average Sea Level	Universal Transverse Mercator	
Water Well Data Improvement Project	2006	Ministry of Natural Resources, Water Resources Information Program	Varies	NAD83	Mean Average Sea Level	Geodetic	
Water Well Information System (WWIS)	1899 - 2003	Ministry of the Environment, Environmental Monitoring and Reporting Branch	Varies	NAD27	Mean Average Sea Level	Universal Transverse Mercator	
Waterloo Area Geology Automated Information System (WAGAIS)	1900 - 1977	Geological Survey of Canada	Varies	NAD27	Mean Average Sea Level	Universal Traverse Mercator	
External Source from NRVIS 2							2007-01-12
Internal Source from NRVIS 2							2007-01-12
Material Source from NRVIS 2							2007-01-12
Ontario Base Map	1978 to 1995	Ministry of Natural Resources		NAD27		UTM	2007-01-12
Source Observation from NRVIS 2							2007-01-12
Unknown Imagery							2007-01-12