

Unclassified

# Land Information Ontario Data Description

# Lot Fabric Improved

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## LIO Class Catalogue

Lot Fabric Improved	
Class Short Name:	LOTFABRC
Version Number:	3

### **Class Description:**

Land identifying a portion of a Concession within a Geographic Township. The townships, concessions and lots comprise the original township fabric of the Province. The spatial accuracy of the lot fabric for some townships has been improved through the Ontario Parcel, Township Realignment and Township Improvement projects. Improvements to the fabric may include: road allowance widths, spatial changes to better represent the location of lot boundaries, and more consistent concession names.

### 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.

### Tables in LIO Class:

### Lot Fabric Improved

### GEOGRAPHIC\_LOT\_FABRIC\_FT

LOCATION\_DESCR

A Lot is a surveyed area that is a subdivision within a geographic township. In many townships, lots lose area to road allowances.

Column Type	Mandatory	Short Name	Valid Values
NUMBER (13,0)	Yes	OGF_ID	
assigned to	each object.		
VARCHAR2 (75)	Yes	SUBTYPE	
DG_UNIT_TY	PE_NAME.		
NUMBER (7,0)	Yes	STYPE_NUM	
ginal GEOG_l	JNIT_TYPE_N	UM.	
VARCHAR2 (100)	No	LOT_IDENT	
VARCHAR2 (100)	No	CONCESSION	
VARCHAR2 (100)	Yes	GEOG_TWP	
VARCHAR2 (8)	No	ALLOW_STAT	Open, Unopened, Closed
VARCHAR2 (200)	No	REL_FEAT	
VARCHAR2 (25)	Yes	ACCURACY	Not Applicable, Over 10,000 metres, Within 1 metre, Within 10 metres, Within 10,000 metres, Within 100 metres, (See LOCATION_ACCURACY_LIST table)
s of a measu	rement withir	the database t	to its true value in the world.
	TypeNUMBER (13,0)assigned toVARCHAR2 (75)OG_UNIT_TYFNUMBER (7,0)ginal GEOG_UVARCHAR2 (100)VARCHAR2 (100)VARCHAR2 (100)VARCHAR2 (100)VARCHAR2 (200)VARCHAR2 (25)	TypeNUMBERYes(13,0)assigned to each object.VARCHAR2Yes(75)DG_UNIT_TYPE_NAME.NUMBERYes(7,0)ginal GEOG_UNIT_TYPE_NIVARCHAR2No(100)VARCHAR2No(100)VARCHAR2No(100)VARCHAR2No(200)VARCHAR2No(25)	TypeNUMBER (13,0)YesOGF_IDassigned to each object.VARCHAR2 YesSUBTYPEVARCHAR2 (75)YesSUBTYPE_NUMOG_UNIT_TYPE_NAME.NUMBER (7,0)YesSTYPE_NUMNUMBER (7,0)YesSTYPE_NUMVARCHAR2 (100)NoLOT_IDENT (100)VARCHAR2 (100)NoCONCESSIONVARCHAR2 (100)YesGEOG_TWPVARCHAR2 (8)NoALLOW_STAT (8)VARCHAR2 (200)NoREL_FEAT (200)VARCHAR2 (200)YesACCURACY

VARCHAR2 No

(2000)

LOC\_DES

VERIFICATION_STATUS_FLG An indication as to whether a quali VERIFICATION_STATUS_DATE	VARCHAR2			
	(10)	2 NO	VERISTT_FL	
'ERIFICATION STATUS DATE	ified employee	has verified	the existence o	f the geographic unit.
	DATE	No	VERISTT_DT	
Date that the geographic unit was	verified/valida	ited.		
SYSTEM_CALCULATED_AREA	NUMBER (16,3)	No	SYS_AREA	
The area of a polygon measured in	n square metre	s by the syst	em.	
JSER_CALCULATED_METRIC	NUMBER (16,3)	No	USER_CALC	
The length, perimeter or area of an user.	n object in met	tres or square	e metres as me	asured or provided by
GENERAL_COMMENTS	VARCHAR2 (2000)	2 No	GNL_CMT	
General comments.				
GEOMETRY_UPDATE_DATETIME	E DATE	No	GEO_UPD_D	Т
Date/time the geometry was creat	ed or last mod	lified in the so	ource database	
FFECTIVE_DATETIME	DATE	Yes	EFF_DATE	
Date/time the record was created	or last modifie	d in the sour	ce database.	
LASS_DATABASE_REFEREN	ICE			
link to an external database or a	n internal obje	ct in the sam	e database.	
	n internal obje Column Type		e database. Short Name	Valid Values
link to an external database or a	Column			Valid Values
A link to an external database or a	Column Type NUMBER (13,0)	Mandatory Yes	Short Name	Valid Values
Column Name	Column Type NUMBER (13,0)	Mandatory Yes b each object	Short Name	Valid Values Internal, External
A link to an external database or a Column Name DGF_ID A unique numeric provincial identif	Column Type NUMBER (13,0) fier assigned to VARCHAR2 (10)	Mandatory Yes each object Yes	Short Name OGF_ID INT_EXT	Internal, External
A link to an external database or a Column Name DGF_ID A unique numeric provincial identif	Column Type NUMBER (13,0) fier assigned to VARCHAR2 (10) eing referenced	Mandatory Yes each object Yes i is internal (I	Short Name OGF_ID INT_EXT	Internal, External
A link to an external database or a Column Name DGF_ID A unique numeric provincial identif NTERNAL_EXTERNAL_FLG A flag indicating if the database be	Column Type NUMBER (13,0) fier assigned to VARCHAR2 (10) eing referenced VARCHAR2 (50)	Mandatory Yes each object Yes is internal (I Yes	Short Name OGF_ID INT_EXT NRVIS/LIO) or o IDENT	Internal, External external.
A link to an external database or a Column Name DGF_ID A unique numeric provincial identif NTERNAL_EXTERNAL_FLG A flag indicating if the database be DATABASE_REFERENCE_IDENT dentifier of a reference that is link	Column Type NUMBER (13,0) fier assigned to VARCHAR2 (10) eing referenced VARCHAR2 (50)	Mandatory Yes Deach object Yes H is internal (I Yes Use Permit Nu	Short Name OGF_ID INT_EXT NRVIS/LIO) or o IDENT	Internal, External external.
A link to an external database or a Column Name DGF_ID A unique numeric provincial identif NTERNAL_EXTERNAL_FLG A flag indicating if the database be DATABASE_REFERENCE_IDENT dentifier of a reference that is link D of a Concrete Class.	Column Type NUMBER (13,0) fier assigned to VARCHAR2 (10) eing referenced VARCHAR2 (50) ced e.g. Land U VARCHAR2 (8)	Mandatory Yes Deach object Yes His internal (I Yes Jse Permit Nu Yes	Short Name OGF_ID INT_EXT NRVIS/LIO) or o IDENT umber, LIS Nun	Internal, External external.
A link to an external database or a Column Name DGF_ID A unique numeric provincial identif NTERNAL_EXTERNAL_FLG A flag indicating if the database be DATABASE_REFERENCE_IDENT dentifier of a reference that is link D of a Concrete Class.	Column Type NUMBER (13,0) fier assigned to VARCHAR2 (10) eing referenced VARCHAR2 (50) ked e.g. Land L VARCHAR2	Mandatory Yes Deach object Yes H is internal (I Yes Use Permit Nu	Short Name OGF_ID INT_EXT NRVIS/LIO) or o IDENT umber, LIS Nun	Internal, External external.

dependence on other data cl	ass geometry	y exists	, this ca	an be io	dentified in this field.
RELATED_CLASS_SHORT_	NAME VAR (8)	CHAR2	No		CLASS_NAME
The static short name that is	s used by the	related	d concre	ete clas	S.
EXT_REF_TYPE_CODE	VAR (8)	CHAR2	No		EXT_TYPE
The type of external databas	e that the id	entifier	pertain	s to e.ç	g. LUPS, LIS, etc.
TYPE_OTHER_DESCR	VAR (60)	CHAR2	No		OTH_DESCR
A full description of the type	when set to	"other"	•		
EFFECTIVE_DATETIME	DAT	E	Yes		EFF_DATE
Date/time the record was cre	eated or last	modifie	ed in the	e sourc	e database.
CLASS_JUSTIFICATION					
The justification for the addit	tion of or cha	•			
Column Name	Column Type	Man	datory	Short	Name Valid Values
OGF_ID	NUMBER (13,0)	Yes		OGF_I	ID
A unique numeric provincial	identifier ass	igned t	o each	object.	
JUSTIFICATION_REASON	VARCHAR2 (2000)	Yes		REAS	N
Reason for justification of th	e existence c	of a geo	graphic	featur	e.
CLASS_SHORT_NAME	VARCHAR2 (8)	Yes		CLASS	S_NAME
System-generated column d	enoting the c	lata cla	ss whic	h this r	record is part of.
JUSTIFICATION_DATE	DATE	Yes		JUSTI	F_DT
Date that the geographic fea	iture was jus	tified.			
EFFECTIVE_DATETIME	DATE	Yes		EFF_C	DATE
Date/time the record was cr	eated or last	modifie	ed in the	e sourc	e database.
CLASS_OTHER_INFORM	IATION				
This table allows the NRVIS/ captured in the NRVIS or LIC determine if the field(s) show	) database. T	he tabl	e conte	nt will	

Column Name	Column Type	Mandatory	Short Name Valid Values
OGF_ID	NUMBER (13,0)	Yes	OGF_ID
A unique numeric provinci	ial identifier as	signed to each	n object.
FIELD_NAME	VARCHAR2	Yes	FIELD_NAME

(30)The attribute name for the information. CLASS\_SHORT\_NAME VARCHAR2 CLASS\_NAME Yes (8) System-generated column denoting the concrete class which this record is part of. FIELD\_TYPE VARCHAR2 Yes FIELD\_TYPE String, Integer, Double (8)The type of field. FIELD\_VALUE\_STRING VARCHAR2 No VALUE\_S (50)A field used to store character strings. FIELD\_VALUE\_INTEGER NUMBER No VALUE\_I (5,0)A field used to store integer values (small numbers). FIELD\_VALUE\_DOUBLE NUMBER No VALUE\_D (10, 3)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
	(23)		

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 conta	ins the party in	formation.		
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.

(8)

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 s	tarts to play a	Role.				
END_DATE	DATE	No	END_DATE			
The date when a Party of	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.

Column Name	Column Type	Mandatory	Short Name	Valid Values
OGF_ID	NUMBER (13,0)	Yes	OGF_ID	
A unique numeric provincia	l identifier assi	igned to each	object.	
SOURCE_NAME	VARCHAR2 (100)	Yes	SOURCE_NAM	AFFM Provincial Administrative Maps, Aerial Photography, Aerial Survey, Book/Publication, CIR Photograpy, City of Ottawa Borehole Database, (See SOURCE_LIST table)

The name of the source.

SOURCE_DETAIL	VARCHAR2	Yes	SOURCE_DET
	(254)		

What part of the source pertains to the feature. Examples: Summary data from a data base, pages in a book or atlas, figure number and page from a publication, a section of a map, record in a database.

CLASS_SHORT_NAME	VARCHAR2 (8)	Yes	CLASS_NAME			
Unique abbreviation of the	Unique abbreviation of the concrete class name (primary key)					
SOURCE_DESCR	VARCHAR2 (2000)	No	SOURCE_DES			
Text providing details about the source.						
METHOD_DESCR	VARCHAR2 (2000)	No	METHOD			

The type of method, tools, and techniques used in observing/collecting/recording the Source. It may also include a URL where users could get further information on the method used.

## SOURCE\_APPLICABILITY VARCHAR2 No APPLICABIL (20)

How the source contributes to the feature's definition.

EFFECTIVE\_DATETIME DATE Yes EFF\_DATE

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

### 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 provinc	cial identifier as	ssigned to eac	h object.
MATERIAL_NAME	VARCHAR2 (200)	Yes	NAME
A name or brief description	on of the mate	rial.	
MATERIAL_LOCATION	VARCHAR2 (200)	Yes	LOCATION
The location where the su storage location.	upporting mate	erial is stored.	This may be a physical location or a link to a
CLASS_SHORT_NAME	VARCHAR2 (8)	Yes	CLASS_NAME
System-generated colum	in denoting the	concrete clas	s which this record is part of.
URL_ENG	VARCHAR2 (500)	No	URL_ENG
communications protocol	followed by a com) and usua	colon and two	on the Internet that consists of a slashes (as http://), the identifier of a bugh a directory to a file called also
URL_FRE	VARCHAR2 (500)	No	URL_FRE
communications protocol	followed by a com) and usua	colon and two	on the Internet that consists of a slashes (as http://), the identifier of a bugh a directory to a file called also
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
Date/time the record was	s created or las	st modified in	the source database.
EXTERNAL_REF_TYP	E_LIST		
List of valid EXTERNAL_R	EFERENCE_TYF	PE codes.	
Column Name	Column Type	Mandatory	Short Name Valid Values
EXT_REF_TYPE_CODE	VARCHAR2 (8)	Yes	EXT_REF_TY

The type of external data	base that the id	dentifier perta	ins to e.g. LUPS, LIS, Other.
EXT_REF_TYPE_DESCR	VARCHAR2 (60)	Yes	EXT_REF_TY
Description of the type of	external refere	ence.	
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
Date/time the record was	created or last	t modified in t	the source database.
EXPIRY_DATETIME	DATE	No	EXP_DATE
Date/time that the record	l was expired fr	om use.	
LOCATION_ACCURAC	Y_LIST		
List of valid LOCATION_A	CCURACYs.		
Column Name	Column Type	Mandatory	Short Name Valid Values
LOCATION_ACCURACY	VARCHAR2 (25)	Yes	ACCURACY
The accuracy of the locat of a measurement to the		re at an OBM	scale. The degree of conformity or closeness
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
Date/time the record was	created or last	t modified in t	the source database.
EXPIRY_DATETIME	DATE	No	EXP_DATE
Date/time that the record	I was expired fr	om use.	
ROLE_TYPE_LIST			
List of valid party role typ	es.		
Column Name	Column Type	Mandatory	Short Name Valid Values
ROLE_TYPE	VARCHAR2 (50)	Yes	ROLE_TYPE
The role that an organiza	tion or an indiv	idual plays.	
ROLE_TYPE_DESCR	VARCHAR2 (2000)	Yes	DESCR
Description of Role Type.			
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
Date/time the record was	created or last	t modified in t	the source database.
EXPIRY_DATETIME	DATE	No	EXP_DATE
Date/time that the record	l was expired fr	om 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	
	mples: Smith, r identified) ON	J. Smith, J. a /INR (where a	nd Jones, K. Sn	ok; the originator(s) of a nith, J., Jones, K. and White porate) Northwest District
SOURCE_SCALE	VARCHAR2 (15)	No	SCALE	
	ed to record th	e location of t	he feature. Exa	n of a grid, or the pixel mples: For a vector source gery source: 1 km, 10 m, 1
HORIZONTAL_DATUM	VARCHAR2 (10)	No	H_DATUM	
Identifies the reference s common horizontal datum adjustment. The datum m	n systems used	in Ontario: N	IAD83, NAD27,	
VERTICAL_DATUM	VARCHAR2 (30)	No	V_DATUM	
mean) sea level as the de	nd mapmakers finition of zero tion to another	have tried to elevation, be surface, defir	simplify the tas cause the sea s ned by gravity, o	sk by using the average (or urface is available worldwid called the geoid, which is th
Traditionally, surveyors a mean) sea level as the de MSL is a close approximation	nd mapmakers finition of zero tion to another suring elevation	have tried to elevation, be surface, defir	simplify the tas cause the sea s ned by gravity, o	sk by using the average (or urface is available worldwid called the geoid, which is th
Traditionally, surveyors a mean) sea level as the de MSL is a close approximative true zero surface for mea	nd mapmakers finition of zero tion to another suring elevation VARCHAR2 (40)	have tried to elevation, be surface, defir ns. Example: No	simplify the tas cause the sea s ned by gravity, o WGS-84 EGM96 PROJECTION	sk by using the average (or urface is available worldwid called the geoid, which is th
Traditionally, surveyors a mean) sea level as the de MSL is a close approximative true zero surface for mean SOURCE_PROJECTION The name of a systematic	nd mapmakers finition of zero tion to another suring elevation VARCHAR2 (40) representation	have tried to elevation, be surface, defir ns. Example: No	simplify the tas cause the sea s ned by gravity, o WGS-84 EGM96 PROJECTION	sk by using the average (or urface is available worldwid called the geoid, which is th 5 Geoid.
Traditionally, surveyors a mean) sea level as the de MSL is a close approximat true zero surface for mea <b>SOURCE_PROJECTION</b> The name of a systematic developable surface.	nd mapmakers finition of zero tion to another suring elevation VARCHAR2 (40) representation	have tried to elevation, be surface, defir ns. Example: No n of all or part Yes	simplify the tas cause the sea s ned by gravity, o WGS-84 EGM96 PROJECTION tof the surface EFF_DATE	sk by using the average (or urface is available worldwid called the geoid, which is th 6 Geoid. of the Earth on a plane or
Traditionally, surveyors a mean) sea level as the de MSL is a close approximat true zero surface for mea <b>SOURCE_PROJECTION</b> The name of a systematic developable surface. <b>EFFECTIVE_DATETIME</b>	nd mapmakers finition of zero tion to another suring elevation VARCHAR2 (40) representation	have tried to elevation, be surface, defir ns. Example: No n of all or part Yes	simplify the tas cause the sea s ned by gravity, o WGS-84 EGM96 PROJECTION tof the surface EFF_DATE	sk by using the average (or urface is available worldwid called the geoid, which is th 6 Geoid. of the Earth on a plane or

## EXTERNAL\_REF\_TYPE\_LIST

EXT REF TYPE CODE			
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)		
ОВМ	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	

## LOCATION\_ACCURACY\_LIST

LOCATION ACCURACY	EXPIRY DATETIME
Not Applicable	
Over 10,000 metres	
Within 1 metre	
Within 10 metres	
Within 10,000 metres	
Within 100 metres	
Within 1000 metres	
Within 2 metres	
Within 20 metres	
Within 200 metres	
Within 2000 metres	
Within 5 metres	
Within 50 metres	
Within 500 metres	
Within 5000 metres	
AC Accurate (to 10m)	2007-01-12
AP Approximate (to 500m)	2007-01-12
GE General (to 10,000m)	2007-01-12
MO Moderate (to 1000m)	2007-01-12
RE Reliable (to 100m)	2007-01-12
VA Very Accurate (to 2m)	2007-01-12
VG Vague (to 100,000m)	2007-01-12
^ Data Load	2007-01-12

## ROLE\_TYPE\_LIST

ROLE TYPE	ROLE TYPE DESCR						
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	

### 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