Unclassified

Land Information Ontario
Data Description

Source Protection Area Generalized

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LIO Class Catalogue

Source Protection Area Generalized

Class Short Name: SPAGEN

Version Number: 1

Class Description:

The area of land and water governed by a Source Protection Authority which defines the watershed area within which the terms of reference, assessment reports and source protection plans must be developed. The Source Protection Area Generalized (SPAGEN) data class is a generalized version of the official Source Protection Planning Boundary (SPPB) owned by the Ontario Ministry of Environment (MOE), which is tied to Regulation 284/07 of the Clean Water Act (CWA). The official version of the boundary is only available to MOE, MNR, Source Protection Authorities and Municipalities recognized under the CWA. This boundary is used in the management of watershed-based source protection plans, and provides the best science-based definition available where possible. Polygons are based on primary, secondary, tertiary and quaternary watershed boundaries with possible modifications by Source Protection Authorities and Municipalities where better terrain modeling data and expert local knowledge exists. A Source Protection Area (SPA) may be made up of multiple individual polygons each with its own landform, such as island, Watershed, Lake/River. A Source Protection Authority is the agency, person or body responsible for developing a Source Protection Plan. "Generally, the source protection authority follows the same structure as the conservation authority boards, which are made up of members appointed by municipal councils."

Abstract Class Name: SPSNTPOLY

Abstract Class Description:

Abstract Spatial Single-Non-Tessellating-Polygon User Object. One and only one polygon forms a single object. Polygons may NOT overlap. However, holes, gaps and islands are allowed. Examples of this are sub classes that may fall under this class are lakes wetlands, ANSIs, etc.

Tables in LIO Class:

Source Protection Area Generalized

SOURCE_PROT_AREA_GEN_FT

The Source Protection Area Generalized (SPAGEN) data class is a smoothed version of the technical Source Protection Planning Boundary (SPPB) owned by the Ontario Ministry of Environment (MOE).This data set (SPAGEN) directly supports Regulation 284/07 of the Clean Water Act (CWA) and is available to the public for general mapping and GIS applications. Under O.Reg 284/07 section 3, the Minister shall ensure that the boundary data and maps that show the approximate boundaries are available to the public on the Internet. This boundary is used in the management of watershed-based source protection plans, and provides the best science-based definition available where possible. Polygons are based on primary, secondary, tertiary and quaternary watershed boundaries with possible modifications by Source Protection Authorities and Municipalities where better terrain modeling data and expert local knowledge exists. A Source Protection Area (SPA) may be made up of multiple individual polygons each with its own landform, such as Island, Watershed, Lake/River. A Source Protection Area (SPA) is an area of land and water governed by a Source Protection Authority which defines the watershed area within which the terms of reference, assessment reports and source protection plans must be developed. A Source Protection Authority is the agency, person or body responsible for developing a Source Protection Plan. "Generally, the source protection authority follows the same structure as the conservation authority boards, which are made up of members appointed by municipal councils."

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.				
SPP_ID	NUMBER(5,0)	Yes	SPP_ID	0, 10, 11, 12, 13, 14, ... (See SOURCE_PROT_AREA_LIST table)
SPR_ID	NUMBER(3,0)	Yes	SPR_ID	10, 11, 12, 13, 14, 15, ... (See SOURCE_PROT_REGION_LIST table)
The numeric identifier used to uniquely identify each Source Protection Region (SPR).				
LEAD_SPA	VARCHAR2(3)	Yes	LEAD_SPA	Yes,No
Indicates if the Source Protection Authority, identified in the Source Protection Area name field, is the lead Authority for the Source Protection Region. The Source Protection Area polygon in which the Lead Source Protection Authority resides will be designated a value of "Yes". The Lead Authority is designated for administrative purposes. It establishes a source protection planning committee and coordinates technical experts across the region.				
FTYPE	VARCHAR2(50)	Yes	FTYPE	
The type of feature represented by the source protection polygon. Example: Shoreline or Island, Watershed, Lake/River Jurisdiction. A Source Protection Area can be made up of one or more individual polygons each with its own Boundary Type.				
UTM_ZONE	NUMBER(2,0)	Yes	UTM_ZONE	
A geographic reference zone within the province. Ontario is divided into 4 UTM zones.				
AREA_LAMBERT_KM	NUMBER(8,0)	Yes	AREA_KM	

The area of the Source Protection Area (in Lambert Conformal Projection) measured in square kilometers.

COMMENTS	VARCHAR2 (2000)	No	COMMENTS	
Unstructured description, additional notes, or further explanation.				
LOCATION_ACCURACY	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)
The degree of conformity or closeness of a measurement within the database to its true value in the world.				
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.				
SHAPE	SDO_GEOMETRY	No	SHAPE	
Geometry attribute.				

LOCATION_ACCURACY_LIST

List of valid LOCATION_ACCURACYs.

Column Name	Column Type	Mandatory	Short Name	Valid Values
LOCATION_ACCURACY	VARCHAR2 (25)	Yes	ACCURACY	
The accuracy of the location of the feature at an OBM scale. The degree of conformity or closeness of a measurement to the true value.				
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.				

SOURCE_PROT_AREA_LIST

A list of valid Source Protection Areas. The SPP_ID attribute within the table is also known as "SPA ID", or Source Protection Areas Identifier. For all intents and purposes, these terms should be regarded as equivalent.

Column Name	Column Type	Mandatory	Short Name	Valid Values
SPP_ID	NUMBER (5,0)	Yes	SPP_ID	
The numeric identifier used in Source Protection Planning (SPP). The SPP_ID attribute is also known as 'SPA ID', or Source Protection Areas Identifier. For all intents and purposes, these terms should be regarded as equivalent. This is a unique identifier assigned to a source protection area which will contain one or more polygons. Example: Source Protection Region: Lakehead; Source Protection Area Name: Lakehead; Source Protection Planning Ident: 24 for three different				

polygons (Watershed, Lake/River Jurisdiction, Shoreline or Island).

SPA_NAME	VARCHAR2 (50)	Yes	SPA_NAME	
The name of the Source Protection Area. Example: Mattagami.				
SPR_ID	NUMBER (3,0)	Yes	SPR_ID	10, 11, 12, 13, 14, 15, ... (See SOURCE_PROT_REGION_LIST table)
The numeric identifier used to uniquely identify each Source Protection Region (SPR).				
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.				

SOURCE_PROT_REGION_LIST

A list of valid Source Protection Regions (SPR).

Column Name	Column Type	Mandatory	Short Name	Valid Values
SPR_ID	NUMBER (3,0)	Yes	SPR_ID	
The numeric identifier used to uniquely identify each Source Protection Region (SPR).				
SPR_NAME	VARCHAR2 (50)	Yes	SPR_NAME	
The name of the Source Protection Region (SPR). Example: Mattagami. An SPR will contain one or more Source Protection Areas.				
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:

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

LIO Lookup Table Values:

SOURCE_PROT_AREA_LIST

SPP ID	SPA NAME	SPR ID	EXPIRY DATETIME
0	Undetermined/No Official Name	99	
10	Ausable Bayfield	10	
11	Cataraqui	12	
12	Catfish Creek	15	
13	Central Lake Ontario	11	
14	Halton	14	
15	Credit Valley	11	
16	Crowe Valley	28	
17	Essex	13	
18	Ganaraska Region	28	
19	Grand River	15	
20	Grey Sauble	23	
21	Hamilton	14	
22	Kawartha-Haliburton	28	
23	Kettle Creek	15	
24	Lakehead	16	
25	Lakes Simcoe and Couchiching/Black River	25	
26	Long Point	15	
27	Lower Thames Valley	27	
28	Lower Trent	28	
29	Maitland Valley	10	
30	Mattagami	17	
31	Mississippi Valley	18	
32	Niagara Peninsula	19	
33	Nickel District	26	
34	North Bay-Mattawa	20	
35	Nottawasaga Valley	25	
36	Otonabee-Peterborough	28	

37	Quinte	21	
38	Raisin Region	22	
39	Rideau Valley	18	
40	Saugeen Valley	23	
41	Sault Ste Marie	24	
42	South Nation	22	
43	St. Clair Region	27	
44	Toronto	11	
45	Upper Thames River	27	
46	Severn Sound	25	
48	Northern Bruce Peninsula	23	

LIO Lookup Table Values:

SOURCE_PROT_REGION_LIST

SPR ID	SPR NAME	EXPIRY DATETIME
10	Ausable Bayfield Maitland Valley	
11	CTC	
12	Cataraqui	
13	Essex	
14	Halton-Hamilton	
15	Lake Erie	
16	Lakehead	
17	Mattagami	
18	Mississippi-Rideau	
19	Niagara Peninsula	
20	North Bay-Mattawa	
21	Quinte	
22	Raisin Region South Nation	
23	Saugeen, Grey Sauble, Northern Bruce Peninsula	
24	Sault Ste Marie	
25	South Georgian Bay Lake Simcoe	
26	Sudbury	
27	Thames, Sydenham and Region	
28	Trent Conservation Coalition	
99	Undetermined	