

# Land Information Ontario Data Description

## OHN – 500K Watercourse

### ***Disclaimer***

This technical documentation has been prepared by the Ministry of Natural Resources (the “Ministry”), representing Her Majesty the Queen in right of Ontario. Although every effort has been made to verify the information, this document is presented as is, and the Ministry makes no guarantees, representations or warranties with respect to the information contained within this document, either express or implied, arising by law or otherwise, including but not limited to, effectiveness, completeness, accuracy, or fitness for purpose. The Ministry is not liable or responsible for any loss or harm of any kind arising from use of this information.

Some of the information in this document is nonconvertible or has not yet been made accessible and may not be compatible with assistive technologies. If you need any of the information in an alternate format, please contact LIO Support at [lio@ontario.ca](mailto:lio@ontario.ca) or (705) 755-1878.

# LIO Class Description

---

## OHN - 500K Watercourse

---

**Class Short Name:** OHN500WC

**Version Number:** 1

**Class Description:**

Watercourses are linear features (natural and manmade) that describe various realizations of flowing water. This class is derived from the OHN - Watercourse class and used for cartographic purposes and web mapping services.

**Abstract Class Name:** SPMLINE

**Abstract Class**

**Description:**

Spatial Multi-Line: An object is represented by ONE or MORE line segments. Line segments MAY be continuous and/or disjointed. Example: "Utility Line". Several line segments for a "Hydro Line" belonging to a particular grid may be interrupted by Utility Site "Hydro Stations".

**Metadata URL:**

**Tables in LIO Class:**  
**OHN - 500K Watercourse**

---

**OHN\_500K\_WATERCOURSE\_FT**

---

Watercourses are line features (natural and manmade) that describe various realizations of flowing water.

| Column Name  | Column Type   | Mandatory | Short Name | Valid Values  |
|--|---------------|-----------|------------|---|
| <b>OGF_ID</b>  | NUMBER(13,0)  | Yes       | OGF_ID     |   |
| A unique numeric provincial identifier assigned to each object.  |               |           |            |   |
| <b>WATERCOURSE_TYPE</b>  | VARCHAR2(20)  | Yes       | WCRS_TYPE  | Stream, Virtual Flow (See OHN_SS_WATERCOURSE_TYPE_LIST table)                           |
| The type of watercourse.   |               |           |            |   |
| <b>OFFICIAL_NAME_LABEL</b>   | VARCHAR2(100) | No        | OFF_NAME   |   |
| This field is a concatenation of the Geographic Named Extent Fields "Official Name" and "Alternate Name".  |               |           |            |   |
| <b>GEL_NAME_IDENT</b>  | VARCHAR2(32)  | No        | GEL_IDENT  |   |
| An identifier from the Geographic Named Extent Layer (GEL). This is a unique, 32 length, alpha-numeric identifier used to distinguish an object. |               |           |            |   |
| <b>POLITICAL_SUBDIVISION_CODE</b>  | VARCHAR2(5)   | No        | POL_SUBDIV | CA-AB, CA-BC, CA-MB, CA-NB, CA-NL, CA-NS, ...<br>(See POLITICAL_SUBDIVISION_LIST table) |
| ISO codes for the representation of countries and their sub-divisions.   |               |           |            |   |
| <b>LABEL_IND</b>   | VARCHAR2(3)   | Yes       | LABEL_IND  | Yes, No   |
| Used to identify if the feature is to be labelled Default = No   |               |           |            |   |
| <b>SYSTEM_CALCULATED_LENGTH</b>  | NUMBER(16,3)  | Yes       | SYS_LENGTH |   |
| The perimeter of a polygon or length of a line measured in metres.   |               |           |            |   |
| <b>GEOMETRY_UPDATE_DATETIME</b>  | DATE          | No        | GEO_UPD_DT |   |
| Date/time the geometry was created or last modified in the source database.  |               |           |            |   |
| <b>EFFECTIVE_DATETIME</b>  | DATE          | No        | EFF_DATE   |   |
| Date/time the record was created or last modified in the source database.  |               |           |            |   |
| <b>SHAPE</b>   | SDO_GEOMETRY  | No        | SHAPE      |   |
| Geometry attribute.  |               |           |            |   |

---

**OHN\_SS\_WATERCOURSE\_TYPE\_LIST**

---

The type of watercourse.

| Column Name                    | Column Type   | Mandatory | Short Name | Valid Values |
|--------------------------------|---------------|-----------|------------|--------------|
| <b>WATERCOURSE_TYPE</b>        | VARCHAR2(20)  | Yes       | WCRS_TYPE  |              |
| The type of watercourse.       |               |           |            |              |
| <b>DESCRIPTION</b>             | VARCHAR2(100) | Yes       | DESCR      |              |
| Describes the Watercourse Type |               |           |            |              |

---

**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.

---

## **POLITICAL\_SUBDIVISION\_LIST**

---

ISO code list for the countries and their sub-divisions.

| <b>Column Name</b> | <b>Column Type</b> | <b>Mandatory</b> | <b>Short Name</b> | <b>Valid Values</b> |
|--------------------|--------------------|------------------|-------------------|---------------------|
|--------------------|--------------------|------------------|-------------------|---------------------|

|                                   |                 |     |            |  |
|-----------------------------------|-----------------|-----|------------|--|
| <b>POLITICAL_SUBDIVISION_CODE</b> | VARCHAR2<br>(5) | Yes | POL_SUBDIV |  |
|-----------------------------------|-----------------|-----|------------|--|

ISO codes for the representation of countries and their sub-divisions.

|                    |                   |     |       |  |
|--------------------|-------------------|-----|-------|--|
| <b>DESCRIPTION</b> | VARCHAR2<br>(100) | Yes | DESCR |  |
|--------------------|-------------------|-----|-------|--|

Describes the Subdivision Code

**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:**  
**OHN\_SS\_WATERCOURSE\_TYPE\_LIST**

| <b>WATERCOURSE<br/>TYPE</b> | <b>DESCRIPTION</b>  | <b>EXPIRY<br/>DATETIME</b> |
|-----------------------------|---|----------------------------|
| Stream                      | A natural body of water (such as a river, stream or creek) through which water flows. |                            |
| Virtual Flow                | An inferred watercourse feature needed to maintain the continuity of water flow.      |                            |

**LIO Lookup Table Values:**  
**POLITICAL\_SUBDIVISION\_LIST**

| <b>POLITICAL SUBDIVISION CODE</b> | <b>DESCRIPTION</b>                 | <b>EXPIRY DATETIME</b> |
|-----------------------------------|------------------------------------|------------------------|
| CA-AB                             | Canada - Alberta                   |                        |
| CA-BC                             | Canada - British Columbia          |                        |
| CA-MB                             | Canada - Manitoba                  |                        |
| CA-NB                             | Canada - New Brunswick             |                        |
| CA-NL                             | Canada - Newfoundland and Labrador |                        |
| CA-NS                             | Canada - Nova Scotia               |                        |
| CA-NT                             | Canada - Northwest Territories     |                        |
| CA-NU                             | Canada - Nunavut                   |                        |
| CA-ON                             | Canada - Ontario                   |                        |
| CA-PE                             | Canada - Prince Edward Island      |                        |
| CA-QC                             | Canada - Quebec                    |                        |
| CA-SK                             | Canada - Saskatchewan              |                        |
| CA-YT                             | Canada - Yukon Territory           |                        |
| US-AK                             | United States - Alaska             |                        |
| US-AL                             | United States - Alabama            |                        |
| US-AR                             | United States - Arkansas           |                        |
| US-AZ                             | United States - Arizona            |                        |
| US-CA                             | United States - California         |                        |
| US-CO                             | United States - Colorado           |                        |
| US-CT                             | United States - Connecticut        |                        |
| US-DE                             | United States - Delaware           |                        |
| US-FL                             | United States - Florida            |                        |
| US-GA                             | United States - Georgia            |                        |
| US-HI                             | United States - Hawaii             |                        |
| US-IA                             | United States - Iowa               |                        |
| US-ID                             | United States - Idaho              |                        |
| US-IL                             | United States - Illinois           |                        |
| US-IN                             | United States - Indiana            |                        |
|                                   |                                    |                        |

|       |                                |  |
|-------|--------------------------------|--|
| US-KS | United States - Kansas         |  |
| US-KY | United States - Kentucky       |  |
| US-LA | United States - Louisiana      |  |
| US-MA | United States - Massachusetts  |  |
| US-MD | United States - Maryland       |  |
| US-ME | United States - Maine          |  |
| US-MI | United States - Michigan       |  |
| US-MN | United States - Minnesota      |  |
| US-MO | United States - Missouri       |  |
| US-MS | United States - Mississippi    |  |
| US-MT | United States - Montana        |  |
| US-NC | United States - North Carolina |  |
| US-ND | United States - North Dakota   |  |
| US-NE | United States - Nebraska       |  |
| US-NH | United States - New Hampshire  |  |
| US-NJ | United States - New Jersey     |  |
| US-NM | United States - New Mexico     |  |
| US-NV | United States - Nevada         |  |
| US-NY | United States - New York       |  |
| US-OH | United States - Ohio           |  |
| US-OK | United States - Oklahoma       |  |
| US-OR | United States - Oregon         |  |
| US-PA | United States - Pennsylvania   |  |
| US-RI | United States - Rhode Island   |  |
| US-SC | United States - South Carolina |  |
| US-SD | United States - South Dakota   |  |
| US-TN | United States - Tennessee      |  |
| US-TX | United States - Texas          |  |
| US-UT | United States - Utah           |  |
| US-VA | United States - Virginia       |  |
| US-VT | United States - Vermont        |  |
| US-WA | United States - Washington     |  |
|       |                                |  |

|       |                               |  |
|-------|-------------------------------|--|
| US-WI | United States - Wisconsin     |  |
| US-WV | United States - West Virginia |  |
| US-WY | United States - Wyoming       |  |



**LIO Table Relationships for Class:**

**OHN - 500K Watercourse**

|                         |  |                              |
|-------------------------|--|------------------------------|
| OHN_500K_WATERCOURSE_FT | <p>←-----<br/>OHN_500K_WATERCOURSE_FT.WATERCOURSE_TYPE<br/>=<br/>OHN_SS_WATERCOURSE_TYPE_LIST.WATERCOURSE_TYPE</p>                   | OHN_SS_WATERCOURSE_TYPE_LIST |
|                         | <p>←-----<br/>OHN_500K_WATERCOURSE_FT.POLITICAL_SUBDIVISION_CODE<br/>=<br/>POLITICAL_SUBDIVISION_LIST.POLITICAL_SUBDIVISION_CODE</p> | POLITICAL_SUBDIVISION_LIST   |