

# LandXML – Landonline

## Enumeration Mappings applicable to Landonline

Surveyors and developers reference document

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## LandXML – Landonline Enumeration Mappings applicable to Landonline

This document has been prepared to help surveyors and LandXML developers identify the LINZ set of enumeration mappings applicable to Landonline when an XML file is imported into Landonline or when an XML file is extracted from Landonline.

Issue History			
Issue	Date	Section No.	Summary of Changes / Amendments
0.1	1-10-07	1.10, 2.10	Incorporating changes for LandXML Schema 1.1. Changes incorporated to Crown Subdivision, LT Subdivision and Statutory Easement/Right Plans only.
0.2	23/11/09	1.4, 1.10, 2.4, 2.11,	Incorporating changes to support the new Rules for Cadastral Survey 2010
1.0	1-3-10	1.2, 1.4, 1.5, 1.9, 1.10, 2.2, 2.4, 2.10	Incorporating final changes to support the new Rules for Cadastral Survey 2010
1.1	16-8-2011	1.5	Amending renewed/replaced Mark State from 'New' to 'Old'
1.2	14-1-2013	1.4, 2.4	Amending the Landonline Value from 'Boundary Accepted' to 'Accepted'

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## 1 Enumeration Mappings for LandXML to Landonline

This section identifies the mappings used by Landonline to resolve LandXML enumerations when importing a LandXML file.

The LandXML schema element and attribute mappings are interpreted by Landonline when the XML is imported.

LandXML schema enumeration → Landonline value → Landonline field

The LandXML schema enumeration gets changed to a Landonline value that is recognised and gets populated into the Landonline field upon import. This process is known as parsing.

LandXML schema has elements and attributes that the surveyor chooses from a set list and some elements and attributes that the surveyor can enter as free text values.

The following list of elements and attributes have set values from which the user selects one option:

- arc direction
- equipment
- monument condition
- monument purpose
- monument state
- monument type
- observation type
- parcel state type
- survey type
- parcel class.

The following list of elements and attributes can be entered as free text values by the surveyor and should adhere to Landonline conventions. Examples are:

- mark name
- mark description
- adopted bearing and adopted distance source
- bearing correction
- survey date.

All elements and attributes have a one-to-one mapping with Landonline values with the exception of Parcel Class. Parcel Class will map to two Landonline values that populate two Landonline fields.

LandXML schema enumeration → Landonline value → Landonline field  
→ Landonline value → Landonline field

Depending on the survey purpose of the *e-survey*, the parcel class will map to different Landonline Parcel Intent and Topology Classes.

There are instances when the Landonline value will not populate the Landonline field for Parcel Intent and Topology Class because there is more than one option that the values could populate. This forces the surveyor to make a decision and populate the field rather than Landonline populating it incorrectly.

### 1.1 Arc Direction

Indicates whether the arc of an arc observation is on the left (clockwise) or the right (counter clockwise) side of the arc chord.

LandXML Enumeration	Description	Landonline Value
cw	Clockwise	Left
ccw	Counter Clock Wise	Right

### 1.2 Equipment Type

Indicates the type of equipment used to make the measurement. Landonline does not require specific equipment type details, only the general type of equipment. Note that Landonline does not currently use "scale" and "other", therefore these values do not map to Landonline values.

LandXML Enumeration	Description	Landonline Value
GPS	Global Positioning was used to determine the measurement for the observation	GPS
theodolite tape	A Theodolite/Tape was used to determine the measurement for the observation.	Theodolite Band
theodolite EDM	A Theodolite/EDM was used to determine the measurement for the observation	Theodolite EDM
unknown	The equipment used to measure the observation is unknown	Unknown
scale	A scale was used to determine the measurement for the observation	Old Adopted
other	Another type of equipment was used to determine the measurement for the observation	Old Adopted
old adopted	The observation was adopted from a very old plan	Old Adopted

### 1.3 Monument Condition

Indicates the physical condition of the monument/mark.

LandXML Enumeration	Description	Landonline Value
destroyed	The mark was destroyed	Destroyed
damaged	The mark was damaged	Damaged
disturbed	The mark has been disturbed from its original position	Moved
not accessible	The mark was not accessible	Not Accessible
not found	The mark could not be found	Not Found
not specified	The condition of the mark was not determined while the survey was being conducted	Not Specified
reliable	The mark is in good condition and is suitable for survey purposes	Reliably Placed/Found
removed	The mark was removed when the survey was conducted	Removed
submerged	The mark was submerged	Submerged
temporary	The mark used during the survey was only a temporary mark	Temporary
threatened	The mark was in a position where it may become damaged or destroyed in future e.g. the mark is on the edge of a subsiding cliff	Threatened
unstable	The mark was in an unstable position	Unstable

### 1.4 Monument Purpose

Indicates the purpose of the monument/mark for the survey. Note that the MonumentPurpose enumeration is a list, and that one monument/mark can have more than one monument purpose on a given survey e.g. "witness boundary".

LandXML Enumeration	Description	Landonline Value
boundary defined by survey	The boundary mark was defined by survey in the survey	Boundary Defined by Survey
boundary defined by adoption	The boundary point was defined by adoption in the survey	Boundary Defined by Adoption
boundary accepted	The boundary point was accepted in the survey	Accepted
prm	The mark was used as a PRM in the survey	PRM
non boundary	The mark was used as a non boundary mark in the survey	Non Boundary
witness	The mark was used as a witness mark in the survey	Witness

The following table identifies the combinations of the MonumentPurpose enumeration that Landonline recognises. Note that the order of the enumeration values is not important e.g. Landonline will recognise both "prm boundary" and "boundary prm" as "PRM Boundary".

<b>LandXML List Enumeration</b>	<b>Description</b>	<b>Landonline Value</b>
prm boundary	The mark was used as a PRM and as a boundary mark in the survey	PRM/Boundary
witness boundary	The mark was used as a witness mark and as a boundary mark in the survey	Witness/Boundary

### **1.5 Monument State**

Indicates the state of the monument/mark as used on the survey.

<b>LandXML Enumeration</b>	<b>Description</b>	<b>Landonline Value</b>
adopted	The mark existed before the survey was conducted and was adopted from a previous survey. i.e. It was not surveyed for this survey	Adopted
disturbed	The mark has been disturbed, hence has a new coordinated position. Note that an additional flag is set in Landonline to indicate that the mark has been disturbed	New
original	The mark existed before the survey was conducted and the mark was surveyed as part of this survey	Old
new	The mark was created by this survey	New
replaced	The mark replaces an existing mark. Note that an additional flag is set in Landonline to indicate that the mark has renewed another mark	Old
renewed	The mark replaces an existing mark. Note that an additional flag is set in Landonline to indicate that the mark has renewed another mark	Old

### 1.6 Monument Type

Indicates the physical type of the monument / mark.

LandXML Enumeration	Description	Landonline Value
disk	The monument is a disk	Disk
nail	The monument is a nail	Nail
not monumented	The mark does not have a physical monument identifying its position.	Unmarked
other	The monument type is other	Other
peg	The monument is a peg	Peg
pin	The monument is a pin	Pin
plaque	The monument is a plaque, including bronze plaque (BP)	Plaque
plug	The monument is a plug, including lead plug (LP)	Lead Plug
post	The monument is a post	Post, including nail in post
spike	The monument is a spike, including iron spike (IS)	Spike, Bar, Bolt, Rod, Dog
tube	The monument is a tube, including iron tube (IT)	Tube
Unknown	The type of monument is not known	Unknown

### 1.7 Observation Type

Indicates the method used to obtain the observation dimensions.

LandXML Enumeration	Description	Landonline Value
adopted	The dimensions of the observation where adopted from a previous survey where the dimensions had been measured	Adopted
calculated	The dimensions of the observation where calculated	Calculated
measured	The dimensions of the observation were measured when the survey was conducted	Measured
scaled	The dimensions of the observation were scaled from a graphical plot	Calculated

### 1.8 Parcel State Type

Indicates how the survey affects the parcel.

LandXML Enumeration	Description	Landonline Value
affected	The parcel must be amalgamated with one or more parcels created by the survey when the survey is deposited	Affected
created	The parcel is being created by the survey	Created
encroached	The parcel has been subject to natural erosion and/or accretion and the definition of the parcel has been/should be updated. Relevant where the parcel affected by the accretion/erosion is not extinguished by the survey	Encroached
existing	The parcel is referenced by the survey	Referenced
extinguished	The parcel is being replaced by one or more parcels created by the survey	Extinguished
referenced	The parcel is referenced by the survey	Referenced
proposed	The parcel is introduced on the survey but has not actually been 'created'. This will generally only apply to parcels such as Future Development Units (FDU) on a Proposed Unit Development plan (PUD). The parcel will be created in a subsequent plan, e.g. Stage 1 of the Unit Development	Proposed

### 1.9 Survey Type

Indicates the primary method used to obtain the survey dataset information

LandXML Enumeration	Description	Landonline Value
surveyed	The survey was conducted in the field to obtain the survey information	Survey
parcels without survey info	The survey creates parcels but does not include non-boundary marks or vectors	Parcels without survey info



### 1.10 Parcel Class

LandXML schema requires a parcel entry in the XML file for it to import into Landonline.

The majority of surveys will have created parcels and extinguished parcels in the *e-survey*. Some *e-surveys* may only have referenced parcels. A small percentage of surveys will not require any parcel to be listed in Landonline.

To abide to the LandXML rule that requires a parcel in the XML file, some *e-surveys* will have parcel entries that will require deleting from Landonline. An example of this would be an *e-survey* with the survey purpose of Survey Information.

A slightly different example would be an *e-survey* with the survey purpose of Redefinition, where the referenced parcel is not included in the XML file. Landonline will populate a created parcel in the parcel list. This parcel will have to be deleted and the referenced parcel captured.

All elements and attributes have a one-to-one mapping with Landonline values with the exception of Parcel Class. Parcel Class will map to two Landonline values that populate two Landonline fields.

LandXML schema enumeration → Landonline value → Landonline field → Landonline value → Landonline field
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Depending on the survey purpose of the *e-survey*, the parcel class will map to different Landonline Parcel Intent and Topology Classes.

There are instances when the Landonline value will not populate the Landonline field for Parcel Intent and Topology Class because there is more than one option that the values could populate. This forces the surveyor to make a decision and populate the field rather than Landonline populating it incorrectly.

The effect of the Landonline fields not populating means that the observation layers for the parcel will not map. This is because parcel topology could not be determined. Landonline will default all observation layers to the traverse layer when the observations should map to 'Primary' or 'Non-primary' or combinations thereof.

Examples of XML parcel class mappings to Landonline values based on survey purpose are shown in the table below:

<b>Landonline Survey Purpose</b>	<b>LandXML Enumeration</b>	<b>Landonline Parcel Intent</b>	<b>Landonline Topology Class</b>
LT Subdivision	allotment	Fee Simple Title	Primary
LT Subdivision	easement	Easement	Secondary
LT Subdivision	cross parcel easement	Easement	Tertiary
LT Subdivision	marginal Strip	Marginal Strip	Tertiary
LT Subdivision	esplanade Strip	Esplanade Strip	Tertiary
Complete Stage Unit Plan	accessory building	Accessory Unit	No Topology
Complete Stage Unit Plan	building	Principal Unit	No Topology
Complete Stage Unit Plan	covenant	Common Property	No Topology

**Table 2 – XML parcel class mappings to Landonline values based on survey purpose**

Example: An XML file with a parcel with parcel class 'allotment' will map to different parcel intents based on survey purpose as shown in the table below:

<b>Landonline Survey Purpose</b>	<b>LandXML Enumeration</b>	<b>Landonline Parcel Intent</b>	<b>Landonline Topology Class</b>
LT Subdivision	Allotment	Fee Simple Title	Primary
Amalgamation	Allotment	Maori	Primary
Parliamentary	Allotment	Statutory	Primary

**Table 3 – XML parcel class 'Allotment' mappings to Landonline values based on survey purpose**

Indicates the use of the parcel. Landonline uses this information in combination with the survey purpose to derive the parcel intent as well as the topology class (e.g. Primary, Secondary, etc) of the parcel.

<b>LandXML Enumeration</b>	<b>Description</b>
accessory building	The parcel is an accessory building
allotment	The parcel defines an allotment of land that can be subject to ownership rights
building	The parcel is a building
covenant	The parcel is subject to a land use restriction
cross parcel easement	Easement parcel that crosses more than one parcel – (only where it is the balance of an existing cross parcel easement)
cross parcel easement centerline	Centerline easement parcel that crosses more than one parcel (only where it is the balance of an existing cross parcel easement centerline)
easement	Easement parcel that does not cross more than one parcel
easement centerline	Centerline easement parcel that does not cross more than one parcel
erosion	The parcel has resulted from natural erosion
hydrography	The parcel defines an area of water
lease	The parcel defines an area of land subject to lease
legalisation	The parcel defines an area of land subject to

	legalisation
other	The parcel class is other
railway	The parcel is used for rail
reclamation	The parcel defines an area of reclaimed land
reserve	The parcel defines an area of land that is subject to reserve
road	The parcel is used for road
strata	The parcel exists as strata information and has vertical limitations, e.g. tunnel
marginal strip	This parcel defines an area of land subject to a Marginal Strip
esplanade strip	This parcel defines an area of land subject to an Esplanade Strip
restrictive area	Areas subject to a Consent Notice that are not otherwise described as Covenants.
residue parcel	The portion of a parcel not being claimed and which remains after part of that primary parcel is removed

The following table identifies the Landonline Parcel Intent and Topology Class values assigned to a parcel given its LandXML Parcel Class enumeration and survey purpose. Note that not every Parcel Class enumeration has a Landonline mapping for every survey purpose. This is either because the Parcel Class is not pertinent to surveys of that purpose, or because more than one Parcel Class enumeration maps to the same combination of Landonline Parcel Intent and Topology Class values (these can be seen by comparing these mappings with the Landonline export mappings).

For any values not specified in the table below, the Parcel Intent and the Topology Class will be left unpopulated on import (for subsequent entry using Landonline). The values shown as N/A will be left unpopulated on import (for subsequent entry using Landonline).

<b>Landonline Survey Purpose</b>	<b>LandXML Enumeration</b>	<b>Landonline Parcel Intent</b>	<b>Landonline Topology Class</b>
Amalgamations	allotment	Maori	Primary
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
	strata	Maori	Strata
Application	allotment	Fee Simple Title	Primary
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
	hydrography	Hydro	Primary
	restrictive area	Restrictive Area	Secondary
	road	Road	Primary
strata	Fee Simple Title	Strata	
Complete Stage Unit Plan	accessory building	Accessory Unit	No Topology
	building	Principal Unit	No Topology

<b>Landonline Survey Purpose</b>	<b>LandXML Enumeration</b>	<b>Landonline Parcel Intent</b>	<b>Landonline Topology Class</b>
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
<b>Complete Stage Unit Plan with Survey Sheet</b>			
	accessory building	Accessory Unit	No Topology
	building	Principal Unit	No Topology
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	esplanade strip	Esplanade Strip	Tertiary
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
<b>Consolidations</b>			
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
	hydrography	Hydro	Primary
	road	Road	Primary
	strata	Maori	Strata
<b>Crown Subdivision</b>			
	allotment	Fee Simple Title	Primary
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
	marginal strip	Marginal Strip	Tertiary
	esplanade strip	Esplanade Strip	Tertiary
	hydrography	Hydro	Primary
	reserve	N/A	Primary
	road	Road	Primary
	strata	Fee Simple Title	Strata
<b>Customary Entitlement</b>			
	covenant	Customary Entitlement	Tertiary
<b>Easement</b>			
	covenant	Land Covenant	Tertiary
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
	restrictive area	Restrictive Area	Secondary

<b>Landonline Survey Purpose</b>	<b>LandXML Enumeration</b>	<b>Landonline Parcel Intent</b>	<b>Landonline Topology Class</b>
First Stage Unit Plan	accessory building	Accessory Unit	No Topology
	building	Principal Unit	No Topology
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
	First Stage Unit Plan with Survey Sheet	accessory building	Accessory Unit
building		Principal Unit	No Topology
covenant		Common Property	No Topology
cross parcel easement		Easement	Tertiary
cross parcel easement centerline		Easement	Tertiary Centreline
esplanade strip		Esplanade Strip	Tertiary
easement		Easement	Secondary
easement centerline		Easement	Secondary Centreline
Flat plan/Cross-lease	accessory building	Cross lease Subsidiary Building	No Topology
	building	Cross Lease Building	No Topology
	covenant	Right of Use Area	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
Flat plan/Cross-lease with Survey Sheet	accessory building	Cross lease Subsidiary Building	No Topology
	building	Cross Lease Building	No Topology
	covenant	Right of Use Area	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	esplanade strip	Esplanade Strip	Tertiary
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
Graphical Description	No mappings for Graphical Description		
Lease	covenant	Land Covenant	Tertiary
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary Centreline
	easement centerline	Easement	Secondary
	lease	Lease	Tertiary
Legalisation	allotment	Fee Simple Title	Primary

<b>Landonline Survey Purpose</b>	<b>LandXML Enumeration</b>	<b>Landonline Parcel Intent</b>	<b>Landonline Topology Class</b>
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
	hydrography	Hydro	Primary
	legalisation	Legalisation	Primary
	railway	Railway	Primary
	road	Road	Primary
	strata	N/A	Strata
<b>Limited Title</b>	accretion	Accretion	Primary
	allotment	Fee Simple Title	Primary
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
	erosion	Hydro	Primary
	hydrography	Hydro	Primary
	residue parcel	Residue Parcel	Primary
	strata	Fee Simple Title	Strata
<b>LT Subdivision</b>	accretion	Accretion	Primary
	allotment	Fee Simple Title	Primary
	covenant	Land Covenant	Tertiary
	marginal strip	Marginal Strip	Tertiary
	esplanade strip	Esplanade Strip	Tertiary
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
	erosion	Hydro	Primary
	hydrography	Hydro	Primary
	restrictive area	Restrictive Area	Secondary
	strata	Fee Simple Title	Strata
<b>Mining</b>	covenant	Covenant Area	Tertiary
<b>Nohoanga (Campsite)</b>	covenant	Nohoanga (Campsite) Entitlements	Tertiary
<b>Parliamentary</b>	allotment	Statutory	Primary
	cross parcel easement	Statutory	Tertiary
	cross parcel easement centerline	Statutory	Tertiary Centreline
	easement	Statutory	Secondary
	easement centerline	Statutory	Secondary Centreline
	strata	Statutory	Strata
<b>Partition</b>	allotment	Maori	Primary
	cross parcel easement	Easement	Tertiary
	cross parcel	Easement	Tertiary Centreline

<b>Landonline Survey Purpose</b>	<b>LandXML Enumeration</b>	<b>Landonline Parcel Intent</b>	<b>Landonline Topology Class</b>
	easement centerline		
	esplanade strip	Esplanade Strip	Tertiary
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
	road	Road	Primary
Proposed Unit Development	accessory building	Accessory Unit	No Topology
	building	Principal Unit	No Topology
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
Proposed Unit Development with Survey Sheet	accessory building	Accessory Unit	No Topology
	building	Principal Unit	No Topology
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	esplanade strip	Esplanade Strip	Tertiary
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
Reclamation	reclamation	Reclamation Area	Primary
	hydrography	Hydro	Primary
Redevelopment Unit Plan	accessory building	Accessory Unit	No Topology
	building	Principal Unit	No Topology
Redevelopment Unit Plan with Survey Sheet	accessory building	Accessory Unit	No Topology
	building	Principal Unit	No Topology
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	esplanade strip	Esplanade Strip	Tertiary
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centerline
Revesting	allotment	In Lieu of a Reserve	Primary
Roadway	road	Road	Primary
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline

<b>Landonline Survey Purpose</b>	<b>LandXML Enumeration</b>	<b>Landonline Parcel Intent</b>	<b>Landonline Topology Class</b>
	strata	Road Strata	Strata
Stage Unit Plan	accessory building	Accessory Unit	No Topology
	building	Principal Unit	No Topology
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
Stage Unit Plan with Survey Sheet	accessory building	Accessory Unit	No Topology
	building	Principal Unit	No Topology
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	esplanade strip	Esplanade Strip	Tertiary
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
Standard Unit Plan	accessory building	Accessory Unit	No Topology
	building	Principal Unit	No Topology
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
Standard Unit Plan with Survey Sheet	accessory building	Accessory Unit	No Topology
	building	Principal Unit	No Topology
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	esplanade strip	Esplanade Strip	Tertiary
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
Statutory Easement/Right	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	marginal strip	Marginal Strip	Tertiary
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
Statutory Vesting	allotment	Fee Simple Title	Primary
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline



<b>Landonline Survey Purpose</b>	<b>LandXML Enumeration</b>	<b>Landonline Parcel Intent</b>	<b>Landonline Topology Class</b>
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
	strata	Fee Simple Title	Strata
Substituted Proposed Unit Development	accessory building	Accessory Unit	No Topology
	building	Principal Unit	No Topology
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
Substituted Proposed Unit Development with Survey Sheet	accessory building	Accessory Unit	No Topology
	building	Principal Unit	No Topology
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	esplanade strip	Esplanade Strip	Tertiary
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
Units Plan in Substitution	accessory building	Accessory Unit	No Topology
	building	Principal Unit	No Topology
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centreline
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline
Units Plan in Substitution with Survey Sheet	accessory building	Accessory Unit	No Topology
	building	Principal Unit	No Topology
	covenant	Common Property	No Topology
	cross parcel easement	Easement	Tertiary
	cross parcel easement centerline	Easement	Tertiary Centerline
	esplanade strip	Esplanade Strip	Tertiary
	easement	Easement	Secondary
	easement centerline	Easement	Secondary Centreline

## 2 Enumeration Mappings for Landonline to LandXML

This section identifies the mappings used by Landonline to identify LandXML enumerations when exporting a LandXML file.

### 2.1 Arc Direction

Indicates whether the arc of an arc observation is on the left (clockwise) or right (counter clockwise) side of the arc chord.

Landonline Value	Description	LandXML Enumeration
Left	Arc is on the left side of the chord	cw
Right	Arc is on the right side of the chord	ccw

### 2.2 Equipment Type

Indicates the type of equipment used to make the measurement. Landonline does not require specific equipment type details, only the general type of equipment.

Landonline Value	Description	LandXML Enumeration
GPS	Global Positioning was used to determine the measurement for the observation	GPS
Theodolite Band	A Theodolite/Tape was used to determine the measurement for the observation.	theodolite tape
Theodolite EDM	A Theodolite/EDM was used to determine the measurement for the observation	theodolite EDM
Unknown	The equipment used to measure the observation is unknown	Unknown
Old Adopted	The observation was adopted from a very old plan	old adopted

### 2.3 Monument Condition

Indicates the physical condition of the monument/mark as found on the survey.

Landonline Value	Description	LandXML Enumeration
Destroyed	The mark was destroyed	destroyed
Damaged	The mark was damaged	damaged
Moved	The mark has been disturbed from its original position	disturbed
Not Accessible	The mark was not accessible	not accessible
Not Found	The mark could not be found	not found
Not Specified	The condition of the mark was not determined while the survey was being conducted	not specified
Reliably Placed/Found	The mark is in good condition and is suitable for survey purposes	reliable
Removed	The mark was removed when the	removed

	survey was conducted	
Submerged	The mark was submerged	submerged
Temporary	The mark used during the survey was only a temporary mark	temporary
Threatened	The mark was in a position where it may become damaged or destroyed in future e.g. the mark is on the edge of a subsiding cliff	threatened
Unstable	The mark was in an unstable position	unstable
Conversion	The mark was converted	not specified
Dangerous	The mark is in a dangerous	not accessible
Emplaced	A new mark was placed	reliable
Mark Found	The mark was found to be stable.	Reliable

## 2.4 Monument Purpose

Indicates the purpose of the monument/mark for the survey. Note that a mark can have more than one purpose in a survey and the LandXML MonumentPurpose enumeration allows for a list of values to accommodate this.

Landonline Value	Description	LandXML Enumeration/s
Boundary	The mark was used as a boundary mark in the survey	boundary
Boundary Defined by Survey	The boundary mark was defined by survey in the survey	boundary defined by survey
Boundary Defined by Adoption	The boundary point was defined by adoption in the survey	boundary defined by adoption
Accepted	The boundary point was accepted in the survey	boundary accepted
Traverse	The mark was used as a traverse mark in the survey	traverse
Non Boundary	The mark was used as a non boundary mark in the survey	non boundary
Witness	The mark was used as a witness mark in the survey	witness
PRM	The mark was used as a PRM in the survey	prm
PRM/Boundary	The mark was used as a PRM and as a boundary mark in the survey	prm boundary
Origin	The mark was used as an origin in the survey	origin
Origin/Boundary	The mark was used as an origin and as a boundary mark in the survey	origin boundary
Origin/Witness	The mark was used as an origin and as a witness mark in the survey	origin witness
Origin/Witness/Boundary	The mark was used as an origin as well as a witness mark and a boundary mark in the survey	origin witness boundary
Witness/Boundary	The mark was used as a witness mark and as a boundary mark in the survey	witness boundary

## 2.5 Monument State

Indicates the state of the monument/mark in relation to the survey

<b>Landonline Value</b>	<b>Description</b>	<b>LandXML Enumeration</b>
Adopted	The mark existed before the survey was conducted and was adopted from a previous survey. i.e. It was not surveyed for this survey	adopted
New	The mark was created by this survey	new
Old	The mark existed before the survey was conducted and the mark was surveyed as part of this survey	original
System Added	The mark was automatically added to the survey by Landonline during Plan Capture to resolve topology differences between the survey and the underlying cadastral network.	original

## 2.6 Monument Type

Indicates the physical type of the monument / mark.

<b>Landonline Value</b>	<b>Description</b>	<b>LandXML Enumeration</b>
Disk	The monument is a disk	disk
Nail	The monument is a nail	nail
Unmarked	The mark does not have a physical monument identifying its position.	not monumented
Other	The monument type is other	other
Peg	The monument is a peg	peg
Pin	The monument is a pin	pin
Plaque	The monument is a plaque, including bronze plaque (BP)	plaque
Lead Plug	The monument is a plug, including lead plug (LP)	plug
Post, including nail in post	The monument is a post	post
Spike, Bar, Bolt, Rod, Dog	The monument is a spike, including iron spike (IS)	spike
Tube	The monument is a tube, including iron tube (IT)	tube
Unknown	The type of monument is not known	unknown
DCDB	The mark record was created from DCDB.	Unknown

## 2.7 Observation Type

Indicates the method used to determine the observation dimensions

<b>Landonline Value</b>	<b>Description</b>	<b>LandXML Enumeration</b>
Adopted	The dimensions of the observation where adopted from a previous survey where the dimensions had been measured	adopted
Calculated	The dimensions of the observation where calculated	calculated
Measured	The dimensions of the observation were measured when the survey was conducted	measured
Pseudo	The dimensions of the observation were calculated by Landonline from the coordinates of the local and remote setup's	calculated

## 2.8 Parcel State Type

Indicates how the survey will affect the parcel

<b>Landonline Value</b>	<b>Description</b>	<b>LandXML Enumeration</b>
Affected	The parcel was amalgamated with one or more parcels created by the survey when the survey was deposited	affected
Created	The parcel was created by the survey	created
Encroached	The parcel has been subject to natural erosion and/or accretion and the definition of the parcel has been/should have been updated. Relevant where the parcel affected by the accretion/erosion was not extinguished by the survey	encroached
Extinguished	The parcel was replaced by one or more parcels created by the survey	extinguished
Referenced	The parcel is referenced by the survey	referenced
Proposed	The parcel was introduced on the survey but may not have actually been 'created'. This will generally only apply to parcels such as Future Development Units (FDU) on a Proposed Unit Development plan (PUD). The parcel will be created in a subsequent plan, e.g. Stage 1 of the Unit Development	proposed

## 2.9 Survey Type

Indicates the primary method used to obtain the survey dataset information

<b>Landonline Value</b>	<b>Description</b>	<b>LandXML Enumeration</b>
Compiled	The survey was compiled from existing survey information	compiled
Computed	The survey was computed from existing survey information	computed
Survey	The survey was conducted in the field to obtain the survey information	surveyed
Parcels without survey info	The survey creates parcels but does not include non-boundary marks or vectors	parcels without survey information

## 2.10 Parcel Class

Landonline uses the Parcel Intent, Parcel Topology Class and the purpose of the survey that originally created the parcel to determine a parcel's LandXML ParcelClass. If some of this information is not available, or Landonline cannot determine an appropriate LandXML ParcelClass using this information, then Landonline defaults the ParcelClass to "other"

The following table identifies the Parcel Intent, Topology Class and Survey Purpose to LandXML ParcelClass mappings Landonline uses when exporting survey information.

<b>Landonline Survey Purpose</b>	<b>Landonline Parcel Intent</b>	<b>Landonline Topology Class</b>	<b>LandXML Enumeration</b>
Amalgamations	Easement	Secondary	easement
		Secondary Centreline	easement centerline
		Tertiary	cross parcel easement
		Tertiary Centreline	cross parcel easement centerline
	Maori	Primary	allotment
		Strata	strata
Application	Easement	Secondary	easement
		Secondary Centreline	easement centerline
		Tertiary	cross parcel easement
		Tertiary Centreline	cross parcel easement centerline
	Fee Simple Title	Primary	allotment
		Strata	strata
	Hydro	Primary	hydrography
	Restrictive Area	Secondary	easement
	Road	Primary	road
Complete Stage Unit Plan	Accessory Unit	No Topology	accessory building
	Common Property	No Topology	covenant
	Easement	Secondary	easement
		Secondary Centreline	easement centerline
		Tertiary	cross parcel easement
		Tertiary Centreline	cross parcel easement

<b>Landonline Survey Purpose</b>	<b>Landonline Parcel Intent</b>	<b>Landonline Topology Class</b>	<b>LandXML Enumeration</b>
			centerline
	Principal Unit	No Topology	building
Complete Stage Unit Plan with Survey Sheet	Accessory Unit	No Topology	accessory building
	Common Property	No Topology	covenant
	Esplanade Strip	Tertiary	esplanade strip
	Easement	Secondary	easement
		Secondary Centreline	easement centerline
		Tertiary	cross parcel easement
		Tertiary Centreline	cross parcel easement centerline
	Principal Unit	No Topology	building
	Road	Primary	road
Consolidations	Easement	Secondary	easement
		Secondary Centreline	easement centerline
		Tertiary	cross parcel easement
		Tertiary Centreline	cross parcel easement centerline
	Fee Simple Title	Primary	allotment
	Hydro	Primary	hydrography
	Maori	Primary	allotment
		Strata	strata
	Road	Primary	road
Crown Forest Lease	Forestry Right	Secondary	lease
		Tertiary	lease
	Lease 20 years or More	Primary	lease
		Secondary	lease
		Tertiary	lease
	Lease Less than 20 years	Secondary	lease
		Tertiary	lease
Crown Subdivision	Easement	Secondary	easement
		Secondary Centreline	easement centerline
		Tertiary	cross parcel easement
		Tertiary Centreline	cross parcel easement centerline
	Fee Simple Title	Primary	allotment
		Strata	strata
	Marginal Strip	Tertiary	marginal strip
	Esplanade Strip	Tertiary	esplanade strip
	Hydro	Primary	hydrography
	Land Covenant	Secondary	covenant
		Tertiary	covenant
	Road	Primary	road
	Road	Primary	road
Customary Entitlement	Customary Entitlement	Secondary	covenant
	Nohoanga (Campsite) Entitlements	Secondary	covenant
Easement	Easement	Secondary	easement
		Secondary	easement centerline

<b>Landonline Survey Purpose</b>	<b>Landonline Parcel Intent</b>	<b>Landonline Topology Class</b>	<b>LandXML Enumeration</b>
		Centreline	
		Tertiary	cross parcel easement
		Tertiary Centreline	cross parcel easement centerline
	Restrictive Area	Secondary	easement
	Walkway Centreline	Secondary Centreline	easement centerline
		Tertiary Centreline	cross parcel easement centerline
<b>First Stage Unit Plan</b>	<b>Accessory Unit</b>	<b>No Topology</b>	<b>accessory building</b>
	Common Property	No Topology	covenant
	Easement	Secondary	easement
		Secondary Centreline	easement centerline
		Tertiary	cross parcel easement
		Tertiary Centreline	cross parcel easement centerline
	Future Development Unit	No Topology	building
	Principal Unit	No Topology	building
<b>First Stage Unit Plan with Survey Sheet</b>	<b>Accessory Unit</b>	<b>No Topology</b>	<b>accessory building</b>
	Common Property	No Topology	covenant
	Esplanade Strip	Tertiary	esplanade strip
	Easement	Secondary	easement
		Secondary Centreline	easement centerline
		Tertiary	cross parcel easement
		Tertiary Centreline	cross parcel easement centerline
	Future Development Unit	No Topology	building
	Principal Unit	No Topology	building
<b>Flat plan/Cross-lease</b>	<b>Cross Lease Building</b>	<b>No Topology</b>	<b>building</b>
	Cross lease Subsidiary Building	No Topology	accessory building
	Easement	Secondary	easement
		Secondary Centreline	easement centerline
		Tertiary	cross parcel easement
		Tertiary Centreline	cross parcel easement centerline
	Right of Use Area	No Topology	covenant
<b>Flat plan/Cross-lease with Survey Sheet</b>	<b>Cross Lease Building</b>	<b>No Topology</b>	<b>building</b>
	Cross lease Subsidiary Building	No Topology	accessory building
	Esplanade Strip	Tertiary	esplanade strip
	Easement	Secondary	easement
		Secondary Centreline	easement centerline
		Tertiary	cross parcel easement
		Tertiary Centreline	cross parcel easement centerline



<b>Landonline Survey Purpose</b>	<b>Landonline Parcel Intent</b>	<b>Landonline Topology Class</b>	<b>LandXML Enumeration</b>	
	Right of Use Area	No Topology	covenant	
Graphical Description	Fee Simple Title	Primary	allotment	
	Statutory	No Topology	allotment	
		Secondary	easement	
		Secondary Centreline	easement centerline	
		Tertiary	cross parcel easement	
		Tertiary Centreline	cross parcel easement centerline	
Land Transfer Plan Land Covenant	Land Covenant	Secondary	covenant	
		Tertiary	covenant	
Lease	Easement	Secondary	easement	
		Secondary Centreline	easement centerline	
		Tertiary	cross parcel easement	
		Tertiary Centreline	cross parcel easement centerline	
	Lease 20 years or More	Primary	lease	
		Secondary	lease	
		Tertiary	lease	
	Lease Less than 20 years	Secondary	lease	
		Tertiary	lease	
		Railway Leased	Secondary	lease
		Tertiary	lease	
Legalisation	Easement	Secondary	easement	
		Secondary Centreline	easement centerline	
		Tertiary	cross parcel easement	
		Tertiary Centreline	cross parcel easement centerline	
		Fee Simple Title	Primary	allotment
		Strata	strata	
	Hydro	Primary	hydrography	
	Legalisation	Primary	legalisation	
	Railway	Primary	railway	
		Strata	strata	
	Railway Leased	Secondary	lease	
		Tertiary	lease	
	Road	Primary	road	
		Strata	strata	
	Limited Title	Accessway	Primary	road
		Accretion	Primary	accretion
		Easement	Secondary	easement
			Secondary Centreline	easement centerline
			Tertiary	cross parcel easement
		Tertiary Centreline	cross parcel easement centerline	
Erosion		Primary	erosion	
Fee Simple Title		Primary	allotment	
		Strata	strata	
Government Purpose Reserve		Primary	reserve	
Historic Reserve	Primary	reserve		

<b>Landonline Survey Purpose</b>	<b>Landonline Parcel Intent</b>	<b>Landonline Topology Class</b>	<b>LandXML Enumeration</b>
	Hydro	Primary	hydrography
	In Lieu of a Reserve	Primary	allotment
	Land Covenant	Secondary	covenant
		Tertiary	covenant
	Lease 20 years or More	Primary	lease
		Secondary	lease
		Tertiary	lease
	Lease Less than 20 years	Secondary	lease
		Tertiary	lease
	Licence/Permit	Secondary	lease
		Tertiary	lease
	Local Purpose Reserve ( )	Primary	reserve
	Nature Reserve	Primary	reserve
	Residue Parcel	Primary	fee simple
	Recreation Reserve	Primary	reserve
	Road	Primary	road
	Scenic Reserve	Primary	reserve
	Scientific Reserve	Primary	reserve
	Sec 237A RM Act	Primary	reserve
	Service Lane	Primary	road
	State Highway	Primary	road
LT Subdivision	Accessway	Primary	road
	Accretion	Primary	accretion
	Easement	Secondary	easement
		Secondary Centreline	easement centerline
		Tertiary	cross parcel easement
		Tertiary Centreline	cross parcel easement centerline
	Marginal Strip	Tertiary	marginal strip
	Esplanade Strip	Tertiary	esplanade strip
	Erosion	Primary	erosion
	Fee Simple Title	Primary	allotment
		Strata	strata
	Government Purpose Reserve	Primary	reserve
	Historic Reserve	Primary	reserve
	Hydro	Primary	hydrography
	In Lieu of a Reserve	Primary	allotment
	Land Covenant	Secondary	covenant
		Tertiary	covenant
	Lease 20 years or More	Primary	lease
		Secondary	lease
		Tertiary	lease
	Lease Less than 20 years	Secondary	lease
		Tertiary	lease
	Licence/Permit	Secondary	lease
		Tertiary	lease
	Local Purpose Reserve ( )	Primary	reserve

<b>Landonline Survey Purpose</b>	<b>Landonline Parcel Intent</b>	<b>Landonline Topology Class</b>	<b>LandXML Enumeration</b>
	Nature Reserve	Primary	reserve
	Recreation Reserve	Primary	reserve
	Restrictive Area	Secondary	easement
	Road	Primary	road
	Scenic Reserve	Primary	reserve
	Scientific Reserve	Primary	reserve
	Sec 237A RM Act	Primary	reserve
	Service Lane	Primary	road
	State Highway	Primary	road
Marine Farming	Lease 20 years or More	Primary	lease
		Secondary	lease
		Tertiary	lease
	Lease Less than 20 years	Secondary	lease
		Tertiary	lease
		Licence/Permit	lease
Mining	Covenant Area	No Topology	covenant
		Secondary	lease
		Tertiary	lease
Nohoanga (Campsite)	Nohoanga (Campsite) Entitlements	Secondary	covenant
Parliamentary	Statutory	Primary	allotment
		Secondary	easement
		Secondary Centreline	easement centerline
		Strata	strata
		Tertiary	cross parcel easement
		Tertiary Centreline	cross parcel easement centerline
Partition	Easement	Secondary	easement
		Secondary Centreline	easement centerline
		Tertiary	cross parcel easement
		Tertiary Centreline	cross parcel easement centerline
		Esplanade Strip	esplanade strip
		Fee Simple Title	allotment
		Strata	strata
		Maori	allotment
		Strata	strata
Proposed Unit Development	Accessory Unit	No Topology	accessory building
		No Topology	covenant
		Secondary	easement
		Secondary Centreline	easement centerline
		Tertiary	cross parcel easement
		Tertiary Centreline	cross parcel easement centerline
		Principal Unit	building
		Road	road
Proposed Unit Development with Survey Sheet	Accessory Unit	No Topology	accessory building

<b>Landonline Survey Purpose</b>	<b>Landonline Parcel Intent</b>	<b>Landonline Topology Class</b>	<b>LandXML Enumeration</b>
	Common Property	No Topology	covenant
	Esplanade Strip	Tertiary	esplanade strip
	Easement	Secondary	easement
		Secondary Centreline	easement centerline
		Tertiary	cross parcel easement
		Tertiary Centreline	cross parcel easement centerline
	Principal Unit	No Topology	building
	Road	Primary	road
Reclamation	Reclamation Area	Primary	reclamation
	Hydro	Primary	hydrography
Redevelopment Unit Plan	Accessory Unit	No Topology	accessory building
	Common Property	No Topology	covenant
	Easement	Secondary	easement
		Secondary Centreline	easement centerline
		Tertiary	cross parcel easement
		Tertiary Centreline	cross parcel easement centerline
	Future Development Unit	No Topology	building
	Principal Unit	No Topology	building
	Road	Primary	road
Redevelopment Unit Plan with Survey Sheet	Accessory Unit	No Topology	accessory building
	Common Property	No Topology	covenant
	Esplanade Strip	Tertiary	esplanade strip
	Easement	Secondary	easement
		Secondary Centreline	easement centerline
		Tertiary	cross parcel easement
		Tertiary Centreline	cross parcel easement centerline
	Future Development Unit	No Topology	building
	Principal Unit	No Topology	building
	Road	Primary	road
Revesting	Accessway	Primary	road
	Government Purpose Reserve	Primary	reserve
	Historic Reserve	Primary	reserve
	In Lieu of a Reserve	Primary	allotment
	Local Purpose Reserve ()	Primary	reserve
	Nature Reserve	Primary	reserve
	Recreation Reserve	Primary	reserve
	Road	Primary	road
	Scenic Reserve	Primary	reserve
	Scientific Reserve	Primary	reserve
	Sec 237A RM Act	Primary	reserve
	Service Lane	Primary	road
	State Highway	Primary	road
Roadway	Road	Primary	road

<b>Landonline Survey Purpose</b>	<b>Landonline Parcel Intent</b>	<b>Landonline Topology Class</b>	<b>LandXML Enumeration</b>	
		Strata	strata	
Stage Unit Plan	Accessory Unit	No Topology	accessory building	
	Common Property	No Topology	covenant	
	Easement	Secondary	easement	
		Secondary Centreline	easement centerline	
		Tertiary	cross parcel easement	
		Tertiary Centreline	cross parcel easement centerline	
		Future Development Unit	No Topology	building
	Principal Unit	No Topology	building	
	Road	Primary	road	
Stage Unit Plan with Survey Sheet	Accessory Unit	No Topology	accessory building	
	Common Property	No Topology	covenant	
	Esplanade Strip	Tertiary	esplanade strip	
	Easement	Secondary	easement	
		Secondary Centreline	easement centerline	
		Tertiary	cross parcel easement	
		Tertiary Centreline	cross parcel easement centerline	
		Future Development Unit	No Topology	building
		Principal Unit	No Topology	building
	Standard Unit Plan	Accessory Unit	No Topology	accessory building
Common Property		No Topology	covenant	
Easement		Secondary	easement	
		Secondary Centreline	easement centerline	
		Tertiary	cross parcel easement	
		Tertiary Centreline	cross parcel easement centerline	
		Principal Unit	No Topology	building
Standard Unit Plan with Survey Sheet	Accessory Unit	No Topology	accessory building	
	Common Property	No Topology	covenant	
	Esplanade Strip	Tertiary	esplanade strip	
	Easement	Secondary	easement	
		Secondary Centreline	easement centerline	
		Tertiary	cross parcel easement	
		Tertiary Centreline	cross parcel easement centerline	
		Future Development Unit	No Topology	building
		Principal Unit	No Topology	building
		Road	Primary	road
Statutory Easement/Right	Easement	Secondary	easement	
		Secondary Centreline	easement centerline	
		Tertiary	cross parcel easement	
		Tertiary Centreline	cross parcel easement centerline	
		Marginal Strip	Tertiary	marginal strip
Statutory Vesting		Secondary	easement	

<b>Landonline Survey Purpose</b>	<b>Landonline Parcel Intent</b>	<b>Landonline Topology Class</b>	<b>LandXML Enumeration</b>
		Secondary Centreline	easement centerline
		Tertiary	cross parcel easement
		Tertiary Centreline	cross parcel easement centerline
	Fee Simple Title	Primary	allotment
		Strata	strata
	Land Covenant	Secondary	covenant
		Tertiary	covenant
	Lease 20 years or More	Primary	lease
		Secondary	lease
		Tertiary	lease
	Lease Less than 20 years	Secondary	lease
		Tertiary	lease
	Licence/Permit	Secondary	lease
		Tertiary	lease
<b>Substituted Proposed Unit Development</b>	<b>Accessory Unit</b>	<b>No Topology</b>	<b>accessory building</b>
	Common Property	No Topology	covenant
	Easement	Secondary	easement
		Secondary Centreline	easement centerline
		Tertiary	cross parcel easement
		Tertiary Centreline	cross parcel easement centerline
	Principal Unit	No Topology	building
	Road	Primary	road
<b>Substituted Proposed Unit Development with Survey Sheet</b>	<b>Accessory Unit</b>	<b>No Topology</b>	<b>accessory building</b>
	Common Property	No Topology	covenant
	Esplanade Strip	Tertiary	esplanade strip
	Easement	Secondary	easement
		Secondary Centreline	easement centerline
		Tertiary	cross parcel easement
		Tertiary Centreline	cross parcel easement centerline
	Principal Unit	No Topology	building
	Road	Primary	road
<b>Survey Office Plan Land Covenant</b>	<b>Land Covenant</b>	<b>Secondary</b>	<b>covenant</b>
		Tertiary	covenant
<b>Units Plan in Substitution</b>	<b>Accessory Unit</b>	<b>No Topology</b>	<b>accessory building</b>
	Common Property	No Topology	covenant
	Easement	Secondary	easement
		Secondary Centreline	easement centerline
		Tertiary	cross parcel easement
		Tertiary Centreline	cross parcel easement centerline
	Principal Unit	No Topology	building
	Road	Primary	road

<b>Landonline Survey Purpose</b>	<b>Landonline Parcel Intent</b>	<b>Landonline Topology Class</b>	<b>LandXML Enumeration</b>
Units Plan in Substitution with Survey Sheet	Accessory Unit	No Topology	accessory building
	Common Property	No Topology	covenant
	Esplanade Strip	Tertiary	esplanade strip
	Easement	Secondary	easement
		Secondary Centreline	easement centerline
		Tertiary	cross parcel easement
		Tertiary Centreline	cross parcel easement centerline
	Principal Unit	No Topology	building
	Road	Primary	road