OS MasterMap Topography Layer Release Note – May 2023

Version	Change
1.0	Initial publication of this release note.

Introduction

This release note provides information about the latest release of OS MasterMap (OSMM) Topography Layer on 09 May 2023.

OSMM Topography Layer product count

The following table contains product counts for this release of OSMM Topography Layer data. The dates shown are extraction dates, not release dates.

OSMM Topography Layer	Count on 09/03/2023 (Previous release)	Count on 20/04/2023 (Current release)
Total Feature Count	**504 333 657**	**504 632 666**
Count of Topo Area	125 946 698	126 066 955
Count of Topo Line	347 693 432	347 868 793
Count of Topo Point	4 300 775	4 300 245
Count of Topo Bline	536 627	535 774
Count of Topo CartoSym	3 704 346	3 702 191
Count of Topo CartoTxt	22 151 779	22 158 708
Total Count of Deletes	**827 232**	**635 763**
Count of Topo Area deletions	125 275	100 181
Count of Topo Line deletions	602 273	511 108
Count of Topo Point deletions	1 766	2 405
Count of Topo Bline deletions	1 212	1 279
Count of Topo CartoSymcc deletions	3 945	4 543
Count of Topo CartoTxtcc deletions	92 761	16 247

OSMM Topography Layer	Count on 09/03/2023 (Previous release)	Count on 20/04/2023 (Current release)
Total Count of Inserts	**1 213 307**	**934 772**
Count of Topo Area inserts	269 176	220 438
Count of Topo Line inserts	838 596	686 469
Count of Topo Point inserts	1 652	1 875
Count of Topo Bline inserts	471	426
Count of Topo CartoSym inserts	2 281	2 388
Count of Topo CartoTxt inserts	101 131	23 176
Total Count of Modifications	**1 298 120**	**1 077 876**
Count of Topo Area Modifications	608 374	491 873
Count of Topo Line Modifications	672 817	571 421
Count of Topo Point Modifications	345	498
Count of Topo Bline Modifications	1 264	1 070
Count of Topo CartoSym Modifications	399	1 351
Count of Topo CartoTxt Modifications	14 921	11 663
COU Size (bytes)	**497 985 527**	**427 509 176**

New formats available

Alongside GML format, OSMM Topography Layer is also available in GeoPackage and vector tiles formats (from March 2023). Getting started guides for these formats are available on the product's 'Technical Information' page on the OS website (https://beta.ordnancesurvey.co.uk/products/os-mastermap-topography-layer#technical). The product is supplied as an online download. You can download data in its various formats from the OS Data Hub (https://osdatahub.os.uk/).

Discrepancies

- 8 minor errors were detected, which is down from 11 errors in the last refresh. Of these errors, only 1 has existed since the previous refresh – these are minor issues caused either by an editor bug or conflict (where the geometry of adjacent feature has not been updated to match), but there are no visible issues.

- An issue has been identified whereby post offices are being incorrectly attributed or deleted due to data misinterpretation. To date, we have noted over 1 100 reclassified / deleted post offices. This may result in the text disappearing from OSMM Topography Layer. A solution is currently being investigated for this issue and we aim to rectify it as soon as possible.

Land cover refinement changes

The land cover specification for rural geographies has been refined. The Mountain and Moorland refinement was completed in 2022.

The rural geography updates began capture in May 2022. The initial updates fed through to the July 2022 release of OSMM Topography Layer, with the multi class land cover polygons completed in December 2022. The single class land cover polygons will continue to feed through to product from April 2023.

The following two tables articulate this specification refinement:

Old land cover specification

Geographic area	Minimum area size for land cover	Minimum width
Urban	0.1hectares (ha) (1 000m²)	5m
Rural	0.1hectares (ha) (1 000m²)	10m
Mountain and moorland	1.0hectares (ha) (10 000m²)	10m

New land cover specification

Geographic area	Minimum area size for land cover	Minimum width
Urban	0.1hectares (ha) (1 000m²)	5m
Rural	0.1hectares (ha) (1 000m²)	5m*
Mountain and moorland	0.1hectares (ha) (1 000m²)*	5m*

Note: The asterisk symbol (*) shows which criteria have been refined.

The land cover specification refinement means that the rural land cover data within OSMM Topography Layer will become more granular, producing a more detailed view made up of smaller, more numerous polygons. This provides users with more accurate data that meets each individual's specific requirements. These changes are purely refinements and do not change the data attribution.

Annex A shows three examples of how the rural land cover refinement is being translated into OSMM Topography Layer.

Changed TOIDs

Numerous TOIDs (Topographic Identifiers) have changed since the last refresh, resulting in a visual difference in the data. The list below shows a sample of changed TOIDs and their locations that you can use as 'lookup samples' to validate that your latest supply has updated correctly:

TOID	Location (i.e. **XY** coordinates)
osgb1000002063064491	395890.295, 839038.83
osgb5000005292431904	336175.3, 415244.02
osgb5000005139586424	539598.796, 349804.491
osgb1000000301498194	228555.75, 674673.1
osgb1000000217887707	387803.7, 423204.75
osgb1000000017583558	535109.32, 351977.85

Next release

The next release of OS MasterMap Topography Layer is scheduled for 12 June 2023.

Annex A: Rural land cover specification refinement examples

Below are three real-world examples of how the rural land cover specification refinement has affected the data within OSMM Topography Layer. The examples showcase three areas in southern Scotland where the specification refinement has broken up one land polygon within the Topographic Area Feature Type into smaller, separate polygons.

Example one

Table 1:   Location of example one.

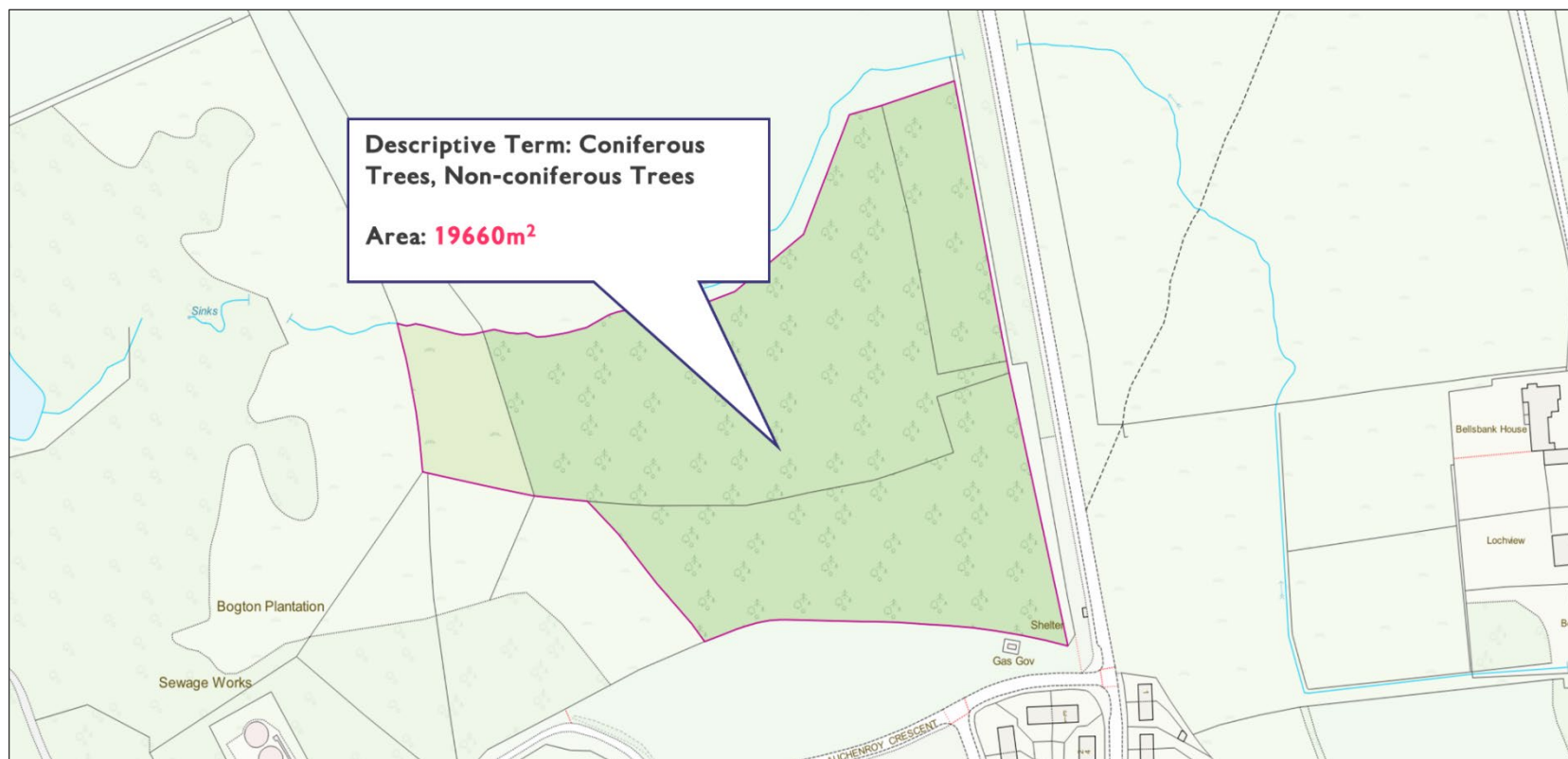| 5km tile	OS grid reference	Coordinates (OSGB36)
NS4505	NS 47825 05240	247790.7,605224.0

Table 2:   TOIDs for example one.

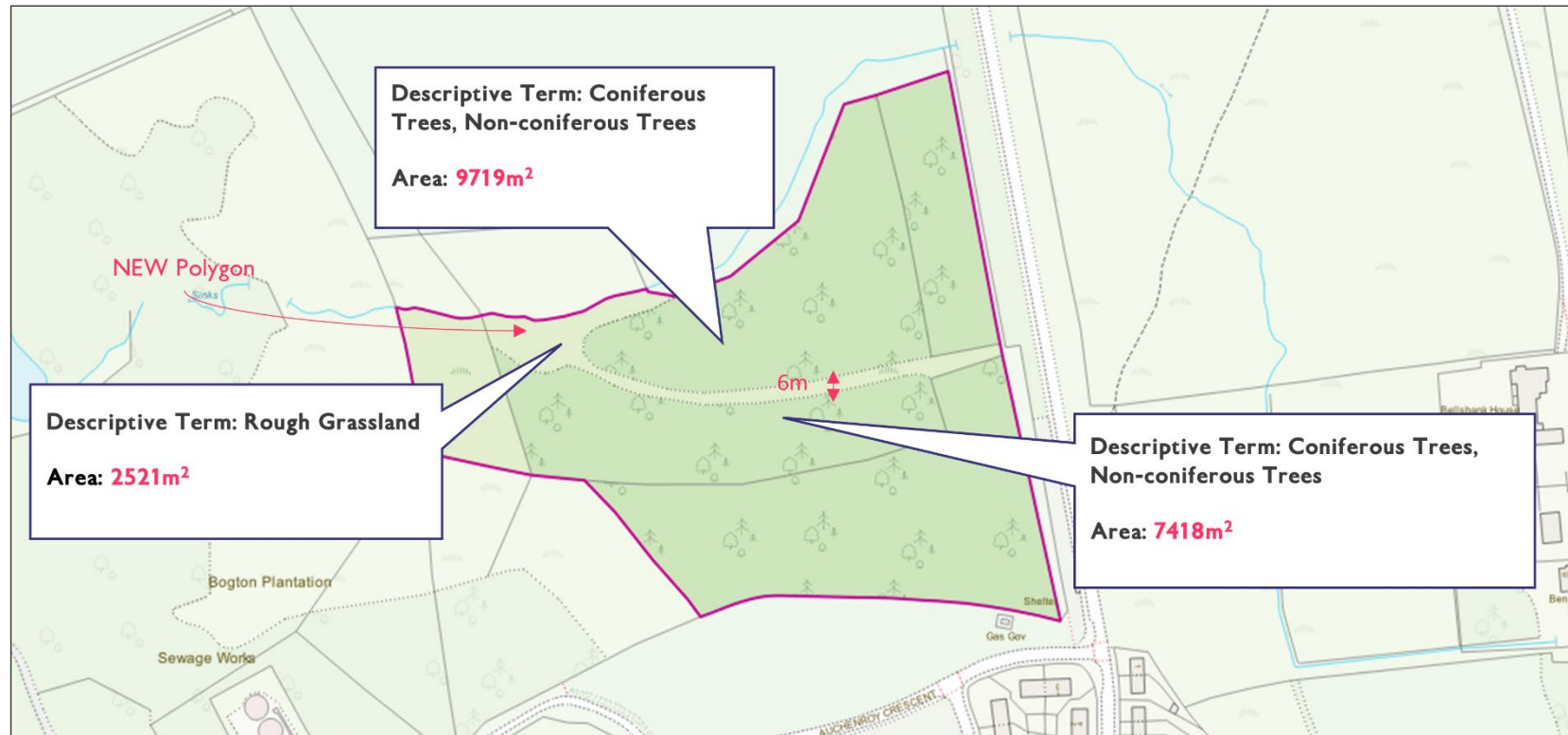| OSMM Topography Layer (July 2022)	OSMM Topography Layer (August 2022)
osgb1000000316775097	osgb5000005297485451
	osgb5000005297485455
	osgb5000005297485456

Source imagery of example area one for comparative purposes:

Data before the rural land cover specification refinement update (OSMM Topography Layer – July 2022):

Descriptive Term: Coniferous Trees, Non-coniferous Trees

Area: 19660m^2

Data after the rural land cover specification refinement update (OSMM Topography Layer – August 2022):

Descriptive Term: Coniferous Trees, Non-coniferous Trees

Area: **9719m²**

NEW Polygon

Descriptive Term: Rough Grassland

Area: **2521m²**

6m

Descriptive Term: Coniferous Trees, Non-coniferous Trees

Area: **7418m²**

Bogton Plantation

Sewage Works

Example two

5km tile	OS grid reference	Coordinates (OSGB36)
NX3540	NX 37464 41871	237419, 541979

OSMM Topography Layer (August 2022)	OSMM Topography Layer (October 2022)
osgb1000000318639911	osgb1000000318639911
	osgb5000005298080383
	osgb5000005298080465

Source imagery of example area two for comparative purposes:
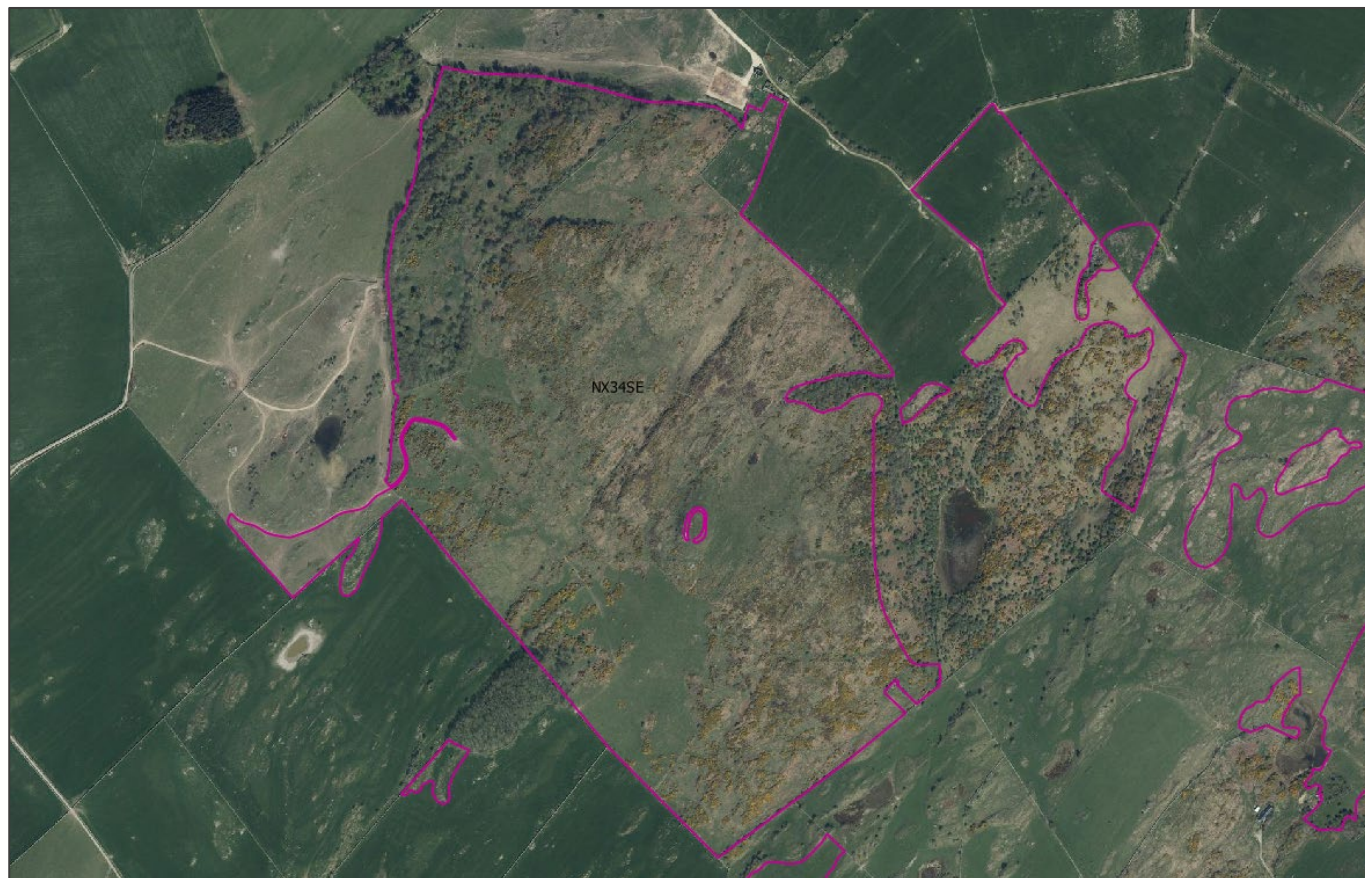
Data before the rural land cover specification refinement update (OSMM Topography Layer – August 2022):

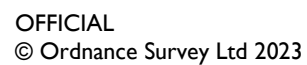**Descriptive Term:** Nonconiferous Trees (Scattered), Rough Grassland, Scrub
Area: 72,840m²

Data after the rural land cover specification refinement update (OSMM Topography Layer – October 2022):

Descriptive Term: Rough Grassland
Area: 4,232m²

NEW Polygons

Descriptive Term: Rough Grassland
Area: 2,292m²

Descriptive Term: Nonconiferous Trees, Scrub
Area: 66,224m²
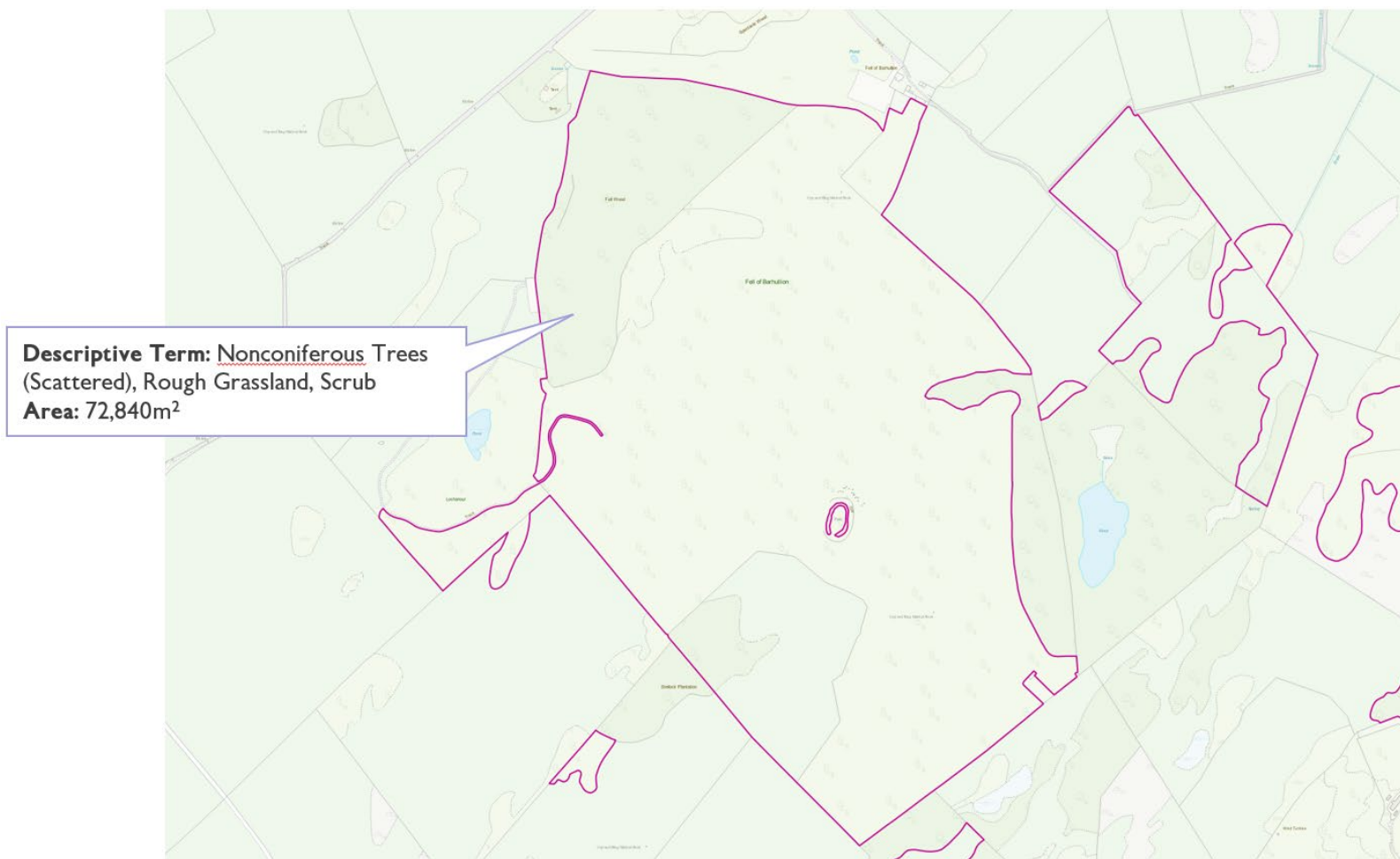
Example three

Location of example three.

5km tile	OS grid reference	Coordinates (OSGB36)
NX6550	NX 68975 51146	268968, 551139

Table 6: TOIDs for example three.

OSMM Topography Layer (August 2022)	OSMM Topography Layer (October 2022)
osgb1000000319079420	osgb1000000319079420
	osgb5000005298106224

Source imagery of example area three for comparative purposes:

Data before the rural land cover specification refinement update (OSMM Topography Layer – August 2022):

Bell Hill

Angel Hill

Descriptive Term: Nonconiferous Trees (Scattered), Scrub
Area: 5174m²

27.1m

Data after the rural land cover specification refinement update (OSMM Topography Layer – October 2022):

Bell Hill

Descriptive Term: Nonconiferous Trees (Scattered), Scrub
Area: 4286m²

NEW Polygon

Angel Hill

6m

Descriptive Term: General Surface
Area: 898m²

27.1m