

Biodiversity Assessment Report (Native Vegetation)
PSP 40: Wyndham Vale

July 2010



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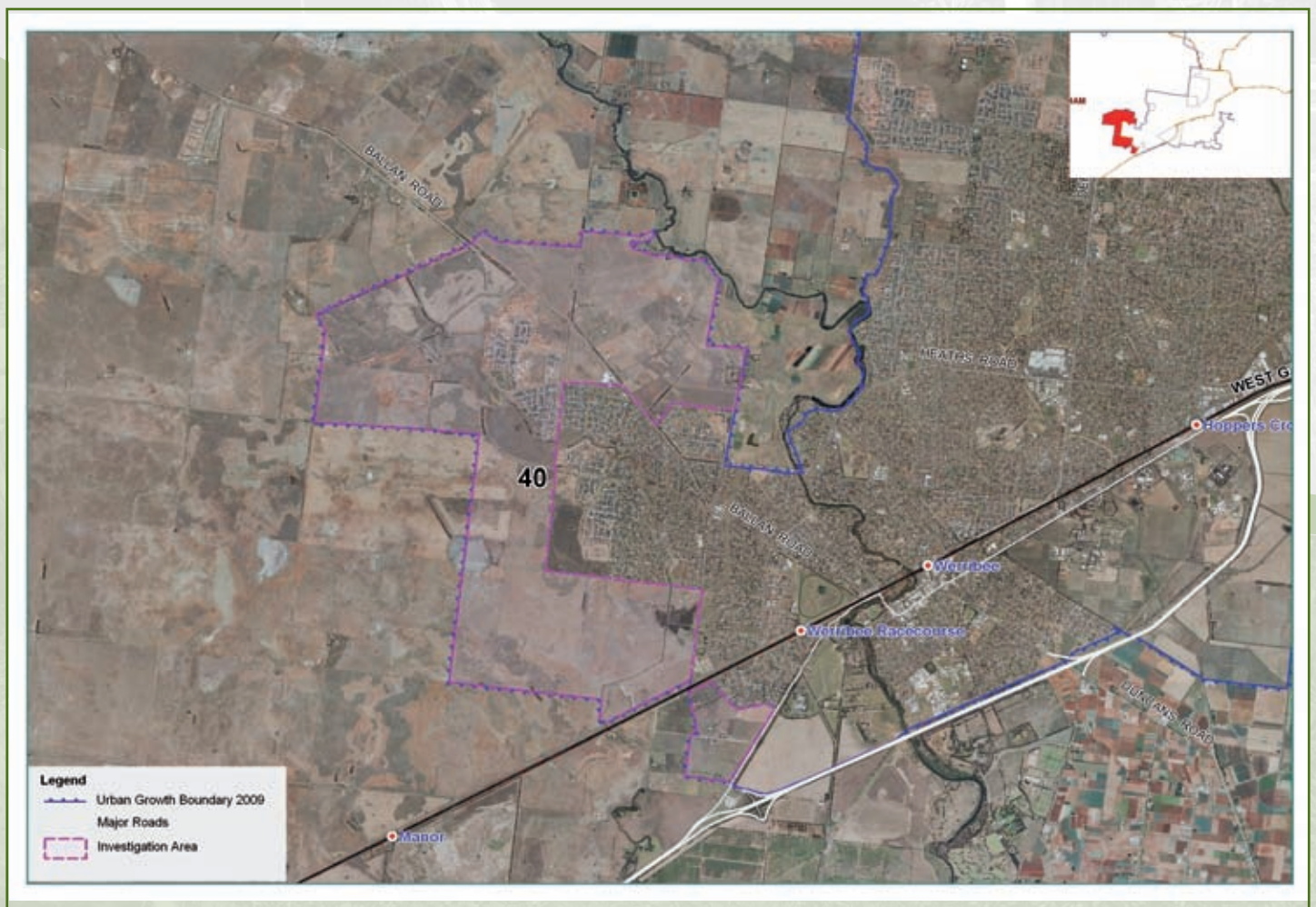
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Biodiversity Assessment Report (Native Vegetation) **PSP 40: Wyndham Vale**

Growth Areas Authority

April 2010



Biodiversity Assessment Project (Native Vegetation)
Quality Assurance - Verification Sheet
PSP 40: Wyndham Vale

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Vegetation Assessment Reporting

Wyndham Vale Precinct Structure Area 40

Prepared for
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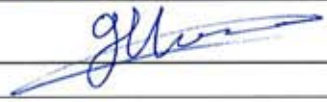

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Contents

Glossary and Acronyms.....	iii
Executive Summary.....	v
1.0 Introduction	1
1.1 Background	1
1.2 Purpose.....	1
1.3 Description of Wyndham Vale Precinct Area	1
2.0 Methodology	3
2.1 Mapping and Assessment Training.....	3
2.2 Data Collection	3
2.3 Desktop Assessment.....	3
2.4 Field Assessment.....	3
2.4.1 Vegetation Quality Assessment.....	3
2.4.2 Vegetation Mapping	5
2.4.3 Threatened Flora Searches	5
2.4.4 Threatened Fauna Searches	5
2.5 Limitations	6
2.5.1 Field Assessment and Access	6
3.0 Results	7
3.1 Remnant Patches	7
3.1.1 Ecological Vegetation Classes.....	7
3.1.2 Conservation Significance.....	11
3.1.3 Vegetation Quality.....	11
3.2 Scattered Trees	12
3.2.1 Ecological Vegetation Classes.....	12
3.2.2 Conservation Significance	12
3.2.3 Net Gain Offsets	13
3.3 Degraded Treeless Vegetation	13
3.4 Significant Flora Species and Ecological Communities	13
3.4.1 Ecological Communities	13
3.4.2 Protected Matters Search Tool	13
3.4.3 Victorian Flora Site Database Records	14
3.5 Drive-by Assessment Results	14
4.0 Environmental Legislation.....	17
5.0 Conclusion	19
6.0 References	21

List of Figures

Body Report

Figure i: Location and Overview Map	vii
Figure ii: Summary of Vegetation Assessment.....	viii

Figures Section

Figure 1: Context Map of Wyndham Vale Precinct Area
Figure 2A - 2O: Native Vegetation within the Study Area
Figure 3A - 3O: Vegetation Quality of Habitat Zones
Figure 4A - 4E: Conservation Significance of Habitat Zones
Figure 5A - 5E: National and State Significant Flora Species

List of Appendices

Appendix A Listed Flora Species Recorded Within 5 km of Wyndham Vale Precinct Area
Appendix B Result of Habitat Hectare Assessment for the Wyndham Vale Precinct Area
Appendix C Legislative Requirements

Glossary and Acronyms

EVC.....	Ecological Vegetation Class
GAA.....	Growth Area Authority
DSE.....	Department of Sustainability and Environment
DEWHA.....	Department of Environment, Water, Heritage and the Arts
VFSD.....	Victorian Flora Site Database
PDA.....	Personal Digital Assistant
GIS.....	Geographic Information System
EPBC Act.....	Environment Protection and Biodiversity Conservation Act
FFG Act.....	Flora and Fauna Guarantee Act
VROTS.....	Victorian, Rare or Threatened Species
CMA.....	Catchment Management Authority
CaLP Act.....	Catchment and Land Protection Act
VPP.....	Victoria Planning Provisions
VVP.....	Victoria Volcanic Plains

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Executive Summary

AECOM was engaged by the Growth Areas Authority to prepare a Vegetation Assessment Report for the Wyndham Vale Precinct Structure Area 40 for Task A.

AECOM completed a Vegetation and Mapping Assessment for the Wyndham Vale Precinct Area between 17 October 2008 and 27 April 2009. This Vegetation Assessment Report presents the results of the Vegetation and Mapping Assessment and incorporates the objectives of Victoria's Native Vegetation Management Framework.

The Wyndham Vale Precinct Area is located approximately 30 km south-west of the Melbourne CBD (see **Figure i**), and falls within the Victorian Volcanic Plains bioregion. The area is characterised by flat to undulating plains with vast areas of open grasslands, small patches of open woodland and stony rises. The area assessed by AECOM covers 1 766 ha and included 49 properties ranging in size from 429 ha to 5.5 ha, all of which were privately owned. The majority of properties have a history of agricultural landuse.

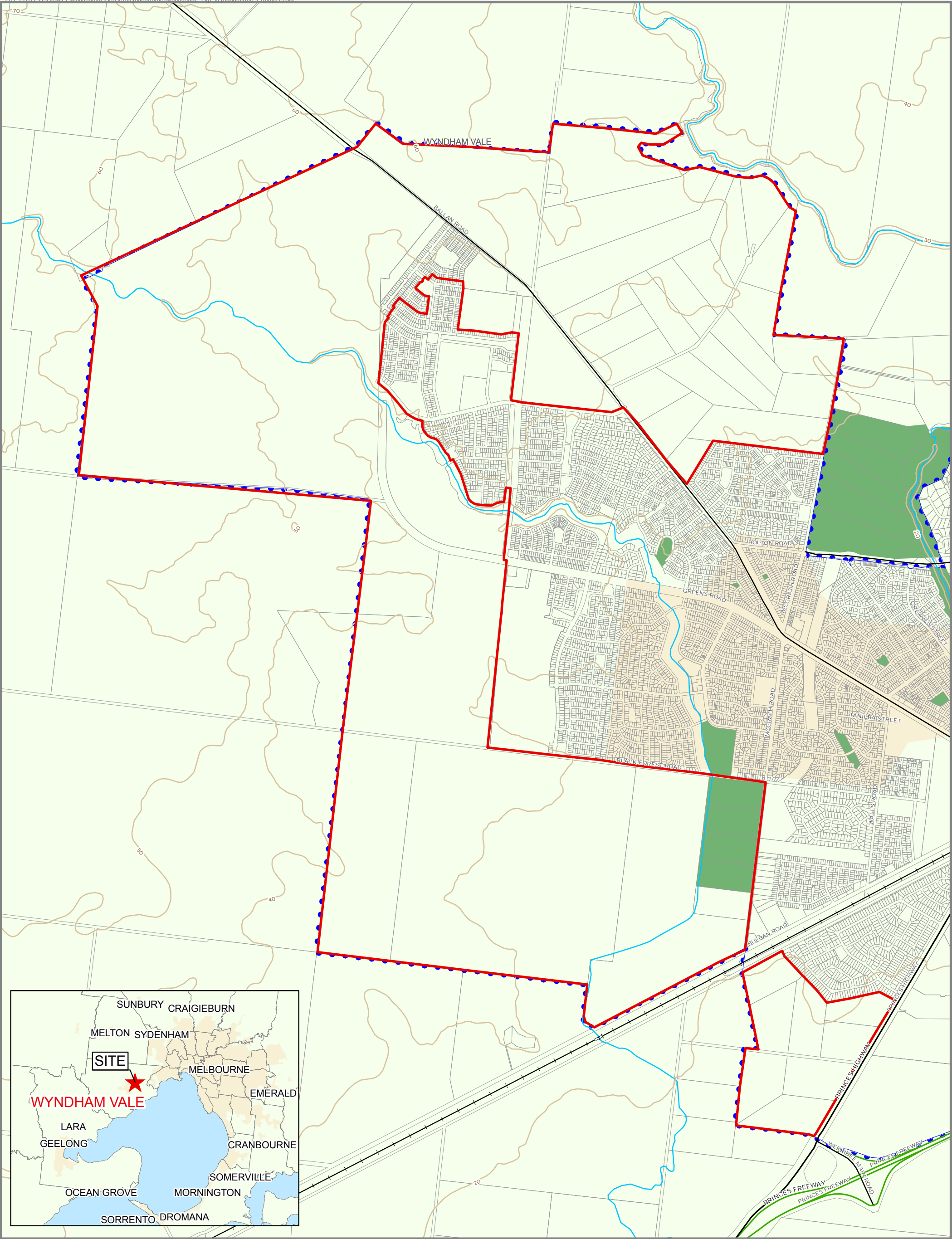
Field surveys were undertaken on 43 properties where access was obtained, with the remaining six properties surveyed by drive-by assessments. Field surveys included a Vegetation Quality Assessment (Habitat Hectares), vegetation found on each property mapped as either a remnant patch, scattered indigenous trees or degraded treeless vegetation. Results of the assessments include:

- A total of 130 remnant patches of native vegetation were recorded, covering 199 ha or 12% of the area.
- Seven Ecological Vegetation Class communities were recorded, all of which are listed as Endangered in Victoria.
- The total Habitat Hectares score for remnant patches was 44.55. The Net Gain offset required for the loss of all native vegetation within remnant patches is at least 1.5 times the calculated loss in Habitat Hectares. Therefore the required offset for the removal of all vegetation is 66.86 Habitat Hectares.
- Sixty-four scattered trees covering 4.6 ha were recorded on four properties. For trees the preferred offset option is 'protect and recruit' measures be used where possible.
- Degraded treeless vegetation was recorded on all properties, covering 1 453 ha or 88% of the Wyndham Vale Precinct Area.
- No threatened ecological communities were recorded during the field surveys.
- One State listed threatened species (Small Scurf-pea) was recorded in three separate locations during field surveys.

AECOM makes the following recommendation:

- a) Undertake targeted surveys within the Wyndham Vale Precinct Area for threatened species listed as possible occurrence, likely occurrence or highly likely occurrence (Appendix A).

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LEGEND

- Wyndham Vale Precinct Area
- Urban Growth Boundary
- Public Park and Recreation Zone
- Cadastre
- Elevation Contours
- Major Watercourses
- Freeway
- Highway
- Arterial Road
- Railway

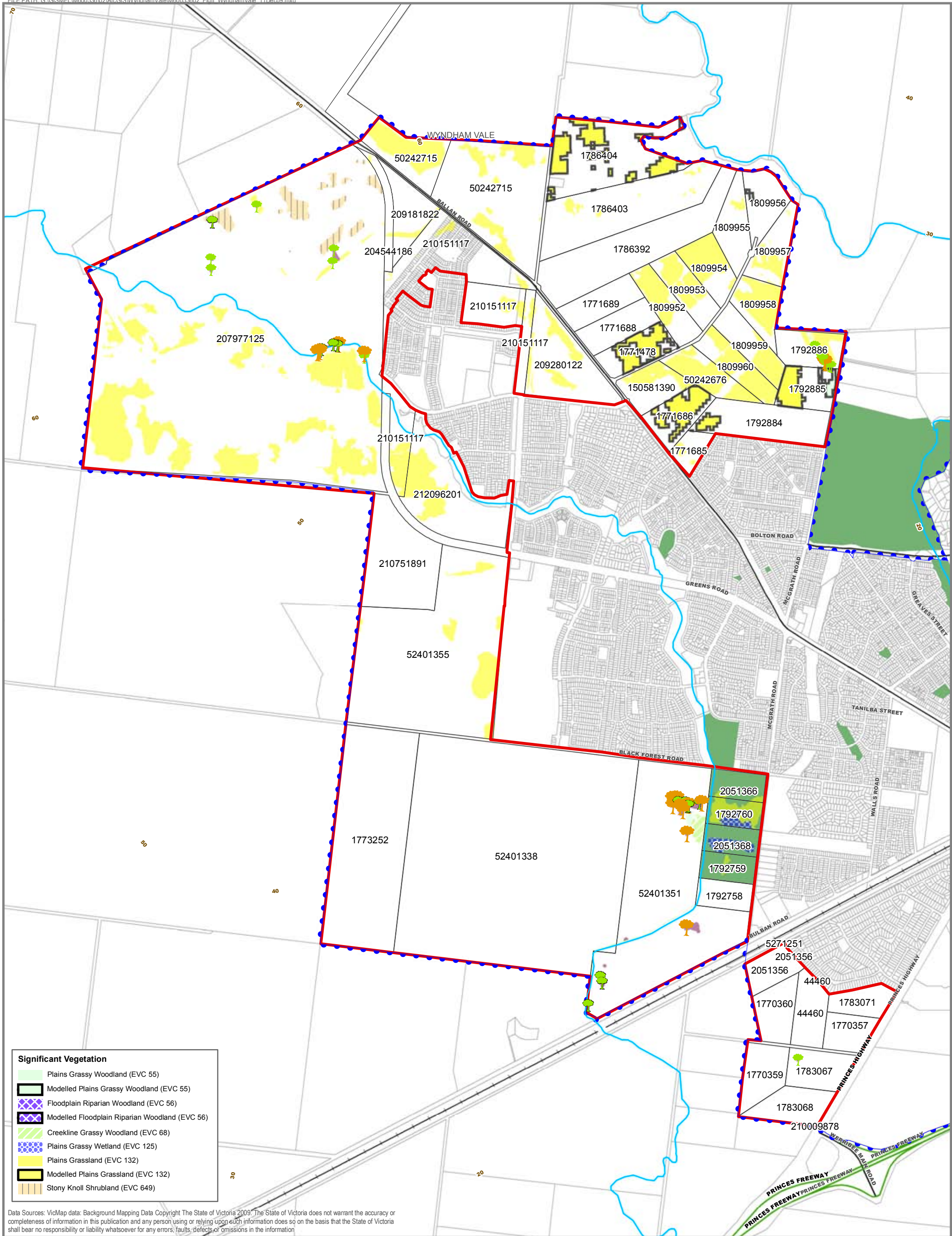
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LOCATION AND OVERVIEW MAP

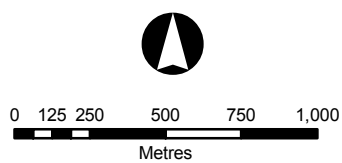
Growth Area Authority
Vegetation Assessment Report
Wyndham Vale, VIC

Figure

i



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LEGEND

- Urban Growth Area Boundary
- Wyndham Vale Precinct Area
- Property Boundaries
- 1790392 Property ID Number
- Major Watercourses
- Public Park and Recreation Zone

Scattered Trees

- Large Old Tree
- Very Large Old Tree
- Scattered Tree Polygons

SUMMARY OF VEGETATION ASSESSMENT

Growth Area Authority
Vegetation Assessment Report
Wyndham Vale, VIC

Figure

ii

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1.0 Introduction

1.1 Background

ENSR Australia Pty Ltd was engaged by the Growth Areas Authority (GAA) to prepare a Vegetation Assessment Report for the Wyndham Vale Precinct Structure Area 40 (Wyndham Vale Precinct Area), for Task A.

AECOM was initially engaged by GAA on 26 August 2008 to undertake a biodiversity and Mapping Assessment for the Wyndham Vale Precinct Area. The project aim was to map and assess native vegetation within the Wyndham Vale Precinct Area. Project field work was undertaken between 17 October 2008 and 27 April 2009.

The Vegetation Assessment Report presents the results of the Vegetation and Mapping Assessment for the Wyndham Vale Precinct Area, and incorporates the objectives of Victoria's Native Vegetation Management Framework. This report has been prepared in accordance with the GAA Precinct Structure Planning Guidelines and Department of Sustainability and Environment's (DSE) Biodiversity Assessment Template.

1.2 Purpose

The Vegetation Assessment Report is required to inform GAA, DSE and local Councils of existing site values and assist with informed landuse planning decisions. Information collected from each property is intended to be used for the preparation of Native Vegetation Precinct Plans / Precinct Structure Plans.

1.3 Description of Wyndham Vale Precinct Area

The Wyndham Vale Precinct Area is located approximately 30 km south-west of the Melbourne CBD (see **Figure 1**), and falls within the Victorian Volcanic Plains bioregion. Wyndham Vale Precinct Area is characterised by flat to undulating plains with vast areas of open grasslands, small patches of open woodland and stony rises. A number of minor, ephemeral creeklines bisect the area. Annual rainfall is between 500 and 700 mm (BOM, 2009).

The area assessed by AECOM within the Wyndham Vale Precinct Area covers 1766 ha and includes 49 properties ranging in size from 429 ha to 5.5 ha, all of which were privately owned. The majority of properties have a history of agricultural landuse, several of which are currently used for agriculture (i.e. livestock grazing and cropping). Surrounding landuse includes agriculture and residential development.

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2.0 Methodology

2.1 Mapping and Assessment Training

AECOM staff undertook training with GAA and DSE from 27 to 29 August 2008. Training focused specifically on vegetation assessment and mapping, practical field assessment, recording data, using equipment and assessment programs, downloading and processing data, data requirements and quality control.

2.2 Data Collection

Data from the Wyndham Vale Precinct Area was obtained through desktop review and field surveys. Each property was assigned an individual identification number. Properties that contained separate lots or parcels were also assigned parcel numbers. Data collection included the following stages:

- Stage 1: Property data collected on a hardcopy proforma
 - Included information obtained from each property relating to historic and current land management issues.
- Stage 2: Vegetation mapping and assessment
 - Remnant vegetation assessments (Habitat Hectares) and associated spatial data were collected digitally in GIS shapefile format using DSE's 'Habitat Hectares for ArcPad' software.
 - Scattered Tree Assessments were assessed and mapped in GIS shapefile format using DSE's 'Scattered Tree Assessment for ArcPad' software.
 - Sites defined as Degraded Treeless Vegetation were assessed and mapped using DSE's 'Habitat Hectares for ArcPad' software.
- Stage 3: Mapping rare and threatened flora
 - Rare and threatened flora observed during field surveys were identified and mapped as a point location in GIS shapefile format.

2.3 Desktop Assessment

The desktop assessment comprised a review of the following databases:

- The DSE Biodiversity Interactive Maps for the current and historical presence of Ecological Vegetation Classes (EVCs).
- The Department of Environment, Water, Heritage and the Arts (DEWHA 2008b) Protected Matters Search Tool for Matters of National Environmental Significance within 5 km of the Wyndham Vale Precinct Area.
- Victorian Flora Site Database (VFSD) (DSE, 2007b) for historical records of threatened flora species within 5 km of the Wyndham Vale Precinct Area.

2.4 Field Assessment

Of the 49 properties, AECOM was able to gain access and assess 43 properties. Each property was assessed on foot by a team of two AECOM ecologists. Teams used a TDS Nomad Personal Digital Assistant (PDA) unit, which including a Global Positioning System (GPS) (accuracy +/- 5 m). Features on each PDA unit included a colour aerial map and cadastral layers of each property. Hard copies of aerial photographs for each property were also taken into the field as a backup. Time spent undertaking each field assessment varied in accordance with the size of the property and the area of native vegetation.

2.4.1 Vegetation Quality Assessment

A Vegetation Quality Assessment (Habitat Hectares) was undertaken in accordance with the Vegetation Quality Assessment Manual Version 1.3. (DSE, 2004) and Field Assessment User Guide (DSE, 2008b). This involved each team undertaking an initial site reconnaissance to establish the presence and extent of native vegetation on the property. Assessments were undertaken in Ecological Vegetation Class (EVC) vegetation following the Habitat Hectares methodology (DSE, 2004) over a period of 19 days between November 2008 and April 2009 (see Table 1). Vegetation attributes assessed included:

- A remnant patch was defined as an area of vegetation where 25% of the understorey cover is indigenous; or a group of indigenous trees (i.e. three or more) where canopy cover is at least 20% (DSE, 2007a).
- Scattered indigenous trees were defined as canopy trees within an area where overall canopy cover for a group of trees is less than 20%.
- Degraded treeless vegetation was defined as areas containing less than 25% indigenous vegetation and dominated by exotic species. Degraded Treeless Vegetation did not require a Vegetation Quality Assessment (DSE, 2007a).

The Habitat Hectares assessment and associated spatial data was collected in GIS Shapefile format using DSE's Habitat Hectares for ArcPad software (7.1.1 – Version 6).

Table 1: Survey dates and conditions

Date	Site conditions	Properties assessed
November		
12/11/2008	Mainly fine and hot	1786392
		1786403
		1792758
		52401351
13/11/2008	Warm but overcast with northerly winds	204544186
		207977125
15/11/2008	Fine and mild	207977125
20/11/2008	Mild and cloudy with fresh wind. Light Rain at times	1809960
		150581390
28/11/2008	Mild and overcast	1809957
30/11/2008	Mild mainly sunny	207977125
December		
2/12/2008	Mild and partly cloudy	1783068
8/12/2008	Fine and mild	1773252
		52401338
		204544186
		207977125
		209181822
		210151117
18/12/2008	Mild and overcast	207977125
23/12/2008	Mild and mostly sunny	210151117
		210151117
		212096201
29/12/2008	Mainly fine and mild	1771689
		52401355
30/12/2008	Fine and mostly sunny	50242715
31/12/2008	Fine and mostly sunny	44460
		1770357
		1770359
		1770360
		1783067
		1783071
		1809955
		2051356
		209280122
		(NO ID)
January		
15/01/2009	Mainly fine and mild	1809952
		1809953
January		

Date	Site conditions	Properties assessed
15/01/2009	Mainly fine and mild	1809959
		50242676
		210751891
21/01/2009	Mainly fine and mild	1792759
		1792760
		1809958
		1809959
		2051356
		2051366
		2051368
		5271251
23/01/2009	Sunny and mild	50242676
		1809954
February		
11/02/2009	Cool and cloudy	207977125
17/02/2009	Fine and warm	1771685
		1771688
		1792886
		50242715
April		
30/04/2009	Cool and fine	52401355

2.4.2 Vegetation Mapping

Vegetation contained within each property was mapped as either a remnant patch, scattered indigenous trees or degraded treeless vegetation.

- Remnant Patches:
 - Polygons were mapped by establishing points along the boundary (or zone) of each remnant patch, showing the extent of vegetation. Each remnant patch was considered a separate habitat zone within the property and allocated a separate code.
- Scattered Indigenous Trees
 - Indigenous scattered trees were marked as point locations, and the number of trees in each size class was recorded according to the relevant EVC benchmark (DSE 2008a): Very Large Old Tree (VLOT); Large Old Tree (LOT); Medium Old Tree (MOT); Small Trees (ST).
- Degraded treeless vegetation:
 - Areas of Degraded Treeless Vegetation were mapped using polygons of the zone showing the extent of each area.

Additional information collected on the PDA unit included:

- Confirmation of EVC type.
- High threat weeds (including species and cover).

2.4.3 Threatened Flora Searches

The random meander technique (DEC, 2004) was used to search for threatened flora species considered likely to occur within each property, as this method allows for greater coverage. The technique involved each person traversing the site in no set pattern, searching for threatened flora. The location and identification of threatened species were mapped as a point location, along with the approximate population size. Searches for threatened flora were undertaken concurrently with vegetation quality assessments.

2.4.4 Threatened Fauna Searches

No targeted fauna surveys were undertaken as part of this contract.

2.5 Limitations

2.5.1 Field Assessment and Access

Spring is the preferred time of year to undertake flora and fauna assessments in Victoria. It is possible to undertake an assessment at other times of the year, however, the limitations of seasonal influence on the presence / absence of several species must be considered. AECOM was not able to commence field assessments until 10 October 2008 due to time delays with gaining access. As a result of ongoing issues with access, many properties within the Wyndham Vale Precinct Area were surveyed during summer, which is outside the main flowering period for many native species that occur in grassland vegetation.

Detailed flora surveys (i.e. transects) were not undertaken as this was beyond the scope of the assessment. Emphasis was placed on identifying the presence of remnant vegetation as well as determining the likely occurrence of threatened flora species. The assessment was limited to the sources of the desktop assessment and the field assessments. Notwithstanding the limitations outlined in this section, AECOM is of the opinion that the assessment methodology and the information obtained is sufficient to inform planning at the precinct scale and therefore can be relied upon for this purpose.

Of the 49 properties identified for survey, AECOM was only able to gain access to complete surveys for 43 of these properties.

3.0 Results

3.1 Remnant Patches

Remnant vegetation within the Wyndham Vale Precinct Area is restricted to small to medium (< 15 ha) patches of native grassland, grassy woodland and stony knolls within a matrix of agricultural land. Remnant vegetation was generally distributed in a non-uniform pattern with relatively poor connectivity to extant vegetation outside the precinct area. Some properties were found to support several distinct remnant patches while other properties contained no remnant vegetation.

The majority of properties within the Wyndham Vale Precinct Area have been subject to previous agricultural landuse, resulting in modification of the structure and composition of native vegetation. This has resulted in a reduction in native species diversity and cover, and an increase in the diversity and cover of introduced flora species. In general, long-term agricultural landuse has simplified the composition of native vegetation, and while remnant elements remain, few areas represent the original flora of the area.

The field surveys recorded a total of 130 remnant patches, on 26 properties, in the Wyndham Vale Precinct Area, covering 199 ha or 12% of the assessed area. The most common remnant vegetation type within the Wyndham Vale Precinct Area was Plains Grassland EVC, covering 182 ha. Three different 'types' of Plains Grassland fall under this EVC category: Heavier-soils Plains Grassland (EVC 132_61), Lighter-soils Plains Grassland (EVC 132_62) and Low-rainfall Plains Grassland (EVC 132_63) (see **Table 2**).

The most common type of Plains Grassland recorded as remnant patches was Heavier-soils Plains Grassland (EVC 132_61), covering 137 ha (see **Table 2**). This vegetation was characterised by a dense, simplified cover of native Wallaby Grass *Austrodanthonia* spp. and Spear Grass *Austrostipa* spp., common species of native herbs and introduced pasture grasses.

3.1.1 Ecological Vegetation Classes

The DSE Biodiversity Interactive Map (2009) indicates that the pre-1750 EVC's within the Wyndham Vale Precinct Area and immediate surrounds consisted of:

- Plains Grassland (EVC 132)
- Plains Grassy Woodland (EVC 55)
- Plains Grassy Wetland (EVC 125)
- Floodplain Riparian Woodland (EVC 56).

Current EVC mapping by the DSE (2008) indicates that three EVC's are supported on or within the immediate vicinity of the Wyndham Vale Precinct Area:

- Plains Grassland (EVC 132), listed as Endangered in the Victorian Volcanic Plains Bioregion.
- Plains Grassy Woodland (EVC 55), listed as Endangered in the Victorian Volcanic Plains Bioregion.
- Plains Grassy Wetland (EVC 125), listed as Endangered in the Victorian Volcanic Plains Bioregion.

A total of seven EVC communities were recorded during field assessments. A description of these EVC's and their extent within the Wyndham Vale Precinct Area is outlined in **Table 2** and presented in **Figures 2A – 2O**.

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Table 2: Description and Extent of EVCs Recorded in the Wyndham Vale Precinct Area (DSE, 2008)

EVC Number	EVC Name	Bioregion	Bioregional Conservation Status	EVC Presence Pre-1750	EVC Presence 2005	Current Survey	Extent of EVC in Precinct Area (ha)	Habitat Hectares of EVC	Description
EVC 132_61*	Heavier-soils Plains Grassland	Victorian Volcanic Plain	Endangered	✓	✓	✓	137.6	30.88	Treeless vegetation mostly less than 1 m tall dominated by largely graminoid and herb life forms. Occupies fertile cracking basalt soils prone to seasonal waterlogging in areas receiving at least 500 mm annual rainfall.
EVC 132_62*	Lighter-soils Plains Grassland	Victorian Volcanic Plain	Endangered	✓	✓	✓	8.02	3.12	Treeless vegetation of less than 1 m tall dominated by largely graminoid and herb life forms but may have originally contained scattered woody plants. Occupies more freely draining red loamy basalt-derived soils and occasionally lighter sedimentary soils in areas receiving at least 500 mm annual rainfall.
EVC 132_63*	Low-rainfall Plains Grassland	Victorian Volcanic Plain	Endangered	✓	✓	✓	36.37	7.47	Treeless vegetation mostly less than 1 m tall and dominated by graminoid and herbaceous life forms. Occupies cracking basalt soils prone to seasonal waterlogging in areas receiving less than 500 mm annual rainfall.
EVC 55_61	Plains Grassy Woodland	Victorian Volcanic Plain	Endangered	✓	✓	✓	0.8	0.24	Open woodland with a canopy to 15 m, primarily comprising River Red Gums <i>Eucalyptus camaldulensis</i> . Occurs at low elevations on poorly-drained fertile soils. Supports a low cover of shrubs with a diverse ground layer of grasses and herbs.

EVC Number	EVC Name	Bioregion	Bioregional Conservation Status	EVC Presence Pre-1750	EVC Presence 2005	Current Survey	Extent of EVC in Precinct Area (ha)	Habitat Hectares of EVC	Description
EVC 125	Plains Grassy Wetland	Victorian Volcanic Plain	Endangered	✓	✓	✓	3.77	0.61	Treeless EVC, occasionally supporting scattered River Red Gums or Swamp Gums <i>E. ovata</i> . The ground layer is dominated by grasses, herbs and sedges, with a sparse shrub layer. Typically species-poor within close proximity to the more moist central areas, with diversity increasing with distance from water.
EVC 68	Creekline Grassy Woodland	Victorian Volcanic Plain	Endangered			✓	2.72	0.51	Eucalypt-dominated woodland to 15 m tall with occasional scattered shrub layer over a mostly grassy/sedgy to herbaceous ground-layer. Occurs on low-gradient ephemeral to intermittent drainage lines, typically on fertile colluvial/alluvial soils, on a wide range of suitably fertile geological substrates.
EVC 649	Stony Knoll Shrubland	Victorian Volcanic Plain	Endangered			✓	9.79	1.72	A shrubland to 3 m tall or low non-eucalypt woodland to 8 m tall with a grassy understorey. It occurs on low stony rises on basalt flows. The soils are fertile and well drained but shallow with out cropping rock, causing severe summer dryness.

* Mapped by DSE as EVC 132 Plains Grassland

3.1.2 Conservation Significance

The Bioregional Conservation Status (BCS) of all EVC's recorded within the Wyndham Vale Precinct Area is Endangered (DSE, 2008a). Under the Victoria's *Native Vegetation Management: A Framework for Action* (the Framework) (DNRE, 2002), the minimum conservation significance of Endangered EVC's is High. As all remnant patches recorded in the Wyndham Vale Precinct Area have a Habitat Hectares score of < 0.4, none qualify as vegetation of Very High conservation significance (Appendix 3 DNRE, 2002).

3.1.3 Vegetation Quality

Of the 130 remnant patches recorded within the Wyndham Vale Precinct Area the average habitat score for Plains Grassland was 0.19 (out of 1), which is well below the average habitat score of 0.45 for grasslands on private land in Victoria (DSE 2007a). The vegetation quality for other EVC's was also below the average habitat scores in Victoria (DSE 2007a), as the range of habitat scores for remnant patches varied from 0.10 to 0.39 (out of 1) (see **Table 3**). The vegetation quality of habitat zones within the Wyndham Vale Precinct Area is presented in **Figures 3A – 3O**.


Table 3: Summary of Remnant Vegetation Patches at Wyndham Vale Precinct Area

Property ID	EVC No.*	No. of Remnant Patches	Total Area of Patches (ha)	Habitat Score (Range, out of 100)	Habitat Hectares
1771685	VVP_0132_61	2	0.65	0.21	0.14
1786403	VVP_0132_63	7	0.42	0.16 – 0.26	0.08
	VVP_0132_61	4	1.03	0.18 – 0.20	0.20
	VVP_0055_61	1	0.17	0.20	0.03
1792759	VVP_0132_61	1	0.38	0.15	0.06
1792760	VVP_0132_61	1	4.60	0.24	1.10
	VVP_0125	1	1.63	0.15	0.25
1792886	VVP_0132_61	2	3.25	0.22 – 0.31	0.95
	VVP_0068	1	0.60	0.28	0.17
1809952	VVP_0132_61	1	6.28	0.19	1.19
1809953	VVP_0132_61	3	6.23	0.19 – 0.20	1.22
1809954	VVP_0132_62	1	8.00	0.39	3.12
	VVP_0132_61	1	0.25	0.23	0.06
1809955	VVP_0132_61	1	0.55	0.15	0.08
1809957	VVP_0132_61	7	2.64	0.16 – 0.25	0.60
1809958	VVP_0132_61	1	7.98	0.25	2.00
1809959	VVP_0132_61	1	4.30	0.23	0.99
1809960	VVP_0132_63	3	8.68	0.21 – 0.24	1.95
2051366	VVP_0132_61	2	0.62	0.24	0.15
2051368	VVP_0125	1	2.14	0.17	0.36
50242676	VVP_0132_61	3	9.45	0.16 – 0.26	2.33
50242715	VVP_0132_61	8	18.37	0.17 – 0.24	4.11
52401351	VVP_0068	2	2.12	0.12 – 0.18	0.34

Property ID	EVC No.*	No. of Remnant Patches	Total Area of Patches (ha)	Habitat Score (Range, out of 100)	Habitat Hectares
	VVP_0055_61	2	0.63	0.20 – 0.37	0.21
52401355	VVP_0132_61	6	8.82	0.20 – 0.23	1.97
150581390	VVP_0132_63	1	4.39	0.23	1.01
204544186	VVP_0132_61	3	0.23	0.10 – 0.19	0.03
207977125	VVP_0132_61	15	39.59	0.10 – 0.26	8.98
	VVP_0132_63	20	22.12	0.11 – 0.24	4.29
	VVP_0649	12	9.79	0.10 – 0.26	1.72
209181822	VVP_0132_61	1	0.97	0.19	0.18
209280122	VVP_0132_61	5	5.30	0.11 – 0.20	1.08
210151117	VVP_0132_63	1	0.76	0.19	0.14
	VVP_0132_62	1	0.02	0.18	0.00
	VVP_0132_61	7	6.82	0.11 – 0.28	1.32
212096201	VVP_0132_61	1	9.29	0.23	2.14
Total		130	199.07	0.10 - 0.39	44.55

* Ecological Vegetation Classes (EVC): VVP – Victorian Volcanic Plain Bioregion; 0132_61 – Heavier-soils Plains Grassland; 0132_62 – Lighter-soils Plains Grassland; 0132_63 – Low-rainfall Plains Grassland; 0649 – Stony Knoll Shrubland; 0125 – Plains Grassy Wetland; 068 – Creekline Grassy Woodland; 055_61 – Plains Grassy Woodland

** The bioregional conservation status of each EVC recorded is Endangered, with each patch having a conservation significance of High. Therefore a Net Gain multiplier of 1.5 applies to offsets for all remnant patches.

 Habitat Score of 0.25 or greater

3.2 Scattered Trees

Sixty-four scattered trees covering 4.3 ha were recorded on four properties within the Wyndham Vale Precinct Area (see **Appendix C**). Scattered trees comprised of 57 River Red Gums and seven She-oaks *Allocasuarina* spp. The size categories of these scattered trees were:

- Medium Old Trees (75-100% DBH of EVC benchmark): 20 trees
- Large Old Trees (100-150% DBH of EVC benchmark): 28 trees
- Very Large Old Trees (>150% DBH of EVC benchmark): 16 trees (PPWPCMA 2006).

3.2.1 Ecological Vegetation Classes

Three EVC's within the Wyndham Vale Precinct Area contained scattered trees. 57 River Red Gums were recorded in Plains Grassy Woodland and Creekline Grassy Woodland EVC's. The seven She-oaks were recorded in Plains Grassy Woodland and Stony Knoll Shrubland (see **Appendix C**).

3.2.2 Conservation Significance

The BCS of all EVC's supporting scattered trees is Endangered (DSE, 2008a). Under the Framework, the minimum conservation significance of Endangered EVC's is High (DNRE, 2002).

3.2.3 Net Gain Offsets

Sixty-four scattered trees covering 4.3 ha were recorded on four properties within the Wyndham Vale Precinct Area, across three EVC communities. The BCS of all EVC's containing scattered trees within the Wyndham Vale Precinct Area is Endangered (DSE, 2008a).

The Framework states that offsets can be achieved through one of two options; 'protect and recruit' or 'recruit only' (DNRE, 2002) (note that a combination of these options can be used to achieve an offset). All offsets are required to be 'secure and ongoing' (PPWCMA, 2006). Note that trees are considered protected if their security can be permanently increased by conservation agreements, reservation of the land or other restriction of future clearing (PPWCMA, 2006).

For trees the preferred option is that 'protect and recruit' measures be used where possible (PPWCMA, 2006). The remnant vegetation or trees to be offset must belong to the same vegetation/habitat type (EVC) as those to be cleared or to vegetation/habitat of Very High conservation significance in the same bioregion (PPWCMA, 2006).

3.3 Degraded Treeless Vegetation

Degraded treeless vegetation was recorded on all properties, covering 1453 ha or 88% of the Wyndham Vale Precinct Area assessed by field surveys (see **Appendix B**). Degraded treeless vegetation within the area is dominated by introduced grass and herb species, including Perennial Rye-grass *Lolium perenne*, Onion Grass *Romulea rosea*, Sweet Vernal Grass *Anthoxanthum odoratum*, Barley Grass *Hordeum leporinum*, Wild Oat *Avena fatua*, Cat's Ear *Hypochoeris radicata*, Ribwort *Plantago lanceolata* and Capeweed *Arctotheca calendula*.

Several weeds listed as noxious under the CaLP Act were also recorded in this vegetation including Serrated Tussock *Nassella trichotoma*, Chilean Needle Grass *Nassella neesiana*, Artichoke Thistle *Cynara cardunculus*, and African Boxthorn *Lycium ferocissimum*.

Degraded treeless vegetation also included areas of 'native' but not indigenous vegetation such as Sugar Gum *Eucalyptus cladocalyx*, which has been widely planted on properties throughout the Wyndham Vale Precinct Area.

3.4 Significant Flora Species and Ecological Communities

The following section summarises ecological values for the Wyndham Vale Precinct Area identified through a review of the information identified in the desktop assessment. Threatened species recorded during field assessments are also described. The conservation significance of habitat zones the Wyndham Vale Precinct Area are presented in **Figures 4A – 4E**.

3.4.1 Ecological Communities

No threatened ecological communities were recorded during the assessment. One Commonwealth listed community Natural Temperate Grassland of the Victorian Volcanic Plain (DEWHA 2008a), listed as Critically Endangered under the EPBC Act, is listed as likely to occur within the Wyndham Vale Precinct Area (DEWHA, 2008b). No vegetation communities listed as Threatened under the FFG Act were recorded or are known to occur within the Wyndham Vale Precinct Area.

3.4.2 Protected Matters Search Tool

The Protected Matters Search Tool (DEWHA, 2008b) indicates that six threatened flora species and one threatened ecological community may potentially occur, or their habitat is predicted to occur within a 5 km radius of the Wyndham Vale Precinct Area (see **Appendix A**). No threatened species or communities were recorded within the Wyndham Vale Precinct Area during field assessments. The likelihood of threatened ecological communities or species occurring within the Wyndham Vale Precinct Area is assessed in **Appendix A**.

3.4.3 Victorian Flora Site Database Records

The VFSD (DSE, 2007b) contains records of 630 flora species within 5 km of the Wyndham Vale Precinct Area, comprising 346 indigenous species, 11 non-indigenous native species and 273 exotic species. The VFSD contains records of the following listed threatened flora species within 5 km of the area (see **Appendix A**).

- Large-headed Fireweed *Senecio macrocarpus* listed as Vulnerable under the EPBC Act and Threatened under the FFG Act.
- Spiny Rice-flower *Pimelea spinescens* subsp. *spinescens* listed as Endangered under the EPBC Act and Threatened under the FFG Act.
- Small Milkwort *Comesperma polygaloides* listed as Threatened under the FFG Act.
- Small Scurf-pea *Cullen parvum* listed as Threatened under the FFG Act.
- Buloke *Allocasuarina luehmannii* listed as Threatened under the FFG Act.
- Fragrant Leek-orchid *Prasophyllum suaveolens* listed as Endangered under the EPBC Act and Threatened under the FFG Act.
- Clover Glycine *Glycine latrobeana* listed as Vulnerable under the EPBC Act and Threatened under the FFG Act.
- Button Wrinklewort *Rutidosis leptorhynchoides* listed as Endangered under the EPBC Act and Threatened under the FFG Act.

One State listed threatened species (Small Scurf-pea) was recorded in three separate locations during field assessments (see **Appendix A**). The locations of National and State listed flora recorded with the Wyndham Vale Precinct Area is presented in **Figures 5A – 5E**.

3.5 Drive-by Assessment Results

Drive-by assessments were undertaken on 20 May, 2009 of the six remaining properties within the Wyndham Vale Precinct Area where access could not be obtained during field assessments. Drive-by assessments were completed by an AECOM ecologist assessing visible vegetation on each property from the roadside. Further review of aerial photography was undertaken to ascertain the likely presence / absence of native vegetation on each property.

The decision-making criteria for interpreting field observations was based on the minimum requirement for undertaking a Vegetation Quality Assessment (DSE, 2004):

- Highly Likely Native Vegetation – grassy (>25% native cover)
- Highly Likely Native Vegetation – structurally modified (loss of vegetative structure)
- Highly Likely Native Vegetation – woody (scattered indigenous trees or shrubs)
- Possible Native Vegetation (native species present with ≤ 25% native cover)
- Wetland habitat (area containing a waterway or wetland species)
- No native vegetation (no discernable native cover present).

Polygons for each identified zone were developed in GIS shapefile format.

Results of the drive-by assessment found four properties were highly likely to contain native vegetation; one property which possibly supported native vegetation and one property likely to support no native vegetation (see **Table 4**). The locations of drive-by assessments are presented in **Figures 2A – 2O** and **3A – 3O**.

Table 4: Results of Drive-by Assessment within the Wyndham Vale Precinct Area

Property	Zone	Area (ha)
1771478	Highly likely native vegetation - grassy	2.28
	No native vegetation	9.86
	Total	12.15
1771686	Possible native vegetation	8.59
	No native vegetation	3.62
	Total	12.21
1786404	Highly likely native vegetation - grassy	27.37
	No native vegetation	13.33
	Total	40.71
1792884	Highly likely native vegetation - grassy	14.54
	No native vegetation	9.57
	Total	24.11
1792885	Highly likely native vegetation - grassy	3.26
	No native vegetation	8.99
	Total	12.25
1809956	No native vegetation	12.20

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4.0 Environmental Legislation

The desktop assessment identified a number Commonwealth listed flora species and one ecological community within five km of the Wyndham Vale Precinct Area; however, none were recorded during the field assessment. One species (Small Scurf-pea) listed as Threatened under the FFG Act was recorded within the Wyndham Vale Precinct Area. Relevant legislation and policies for flora and ecological communities within the Wyndham Vale Precinct Area includes:

- EPBC Act 1999.
- FFG Act 1988.
- Planning and Environment Act 1987.
- Local Government Town Planning Schemes.
- Victorian Native Vegetation Management Framework (the Framework).
- Wildlife Act 1975.
- Port Phillip and Westernport CMA Native Vegetation Plan.
- Water Act 1989.
- Environment Protection Act 1970: State Environmental Protection Policy (Waters of Victoria) 2003.
- Port Phillip and Western Port Regional Catchment Strategy.
- Port Phillip and Western Port Regional River Health Strategy.

Native vegetation is principally addressed during the structure planning and rezoning process (Planning and Environment Act) and subsequent planning permits to subdivide and clear native vegetation are also required pursuant to the Planning and Environment Act. These approvals also satisfy requirements under the FFG Act and the Framework where referral to DSE is required. However, under the Precinct Structure Plan process, there is a requirement for a Native Vegetation Precinct Plan (NVPP) which negates the need for a permit under Clause 52.17 if removal of native vegetation is in line with the approved NVPP.

Where development is likely to have a significant impact on a matter listed under the EPBC Act a referral and possible assessment and approval is required from the Commonwealth Minister for the Environment. Referral may not be required depending on the outcome of the strategic environmental assessment currently being undertaken by the GAA for land within the urban growth boundary.

The retention and enhancement of waterways and the establishment of water sensitive design will need to comply with the requirements of Melbourne Water and the Water Act.

An overview of environmental legislation relevant to the Wyndham Vale Precinct Area is provided in **Appendix D**.

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5.0 Conclusion

The assessment of the Wyndham Vale Precinct Area revealed a highly modified and fragmented landscape. In general, long-term agricultural landuse has removed and simplified the composition of native vegetation, and while remnant elements remain, few areas represent the original flora of the area.

There is a need to consider all the remnant patches in a larger landscape context and what opportunities and constraints exist and how they might relate to regional open space networks, landform, topography, urban water management and community amenity and recreation needs.

AECOM makes the following recommendation:

- a) Undertake targeted surveys within the Windham Vale Precinct Area for threatened species listed as possible occurrence, likely occurrence or highly likely occurrence (Appendix A).

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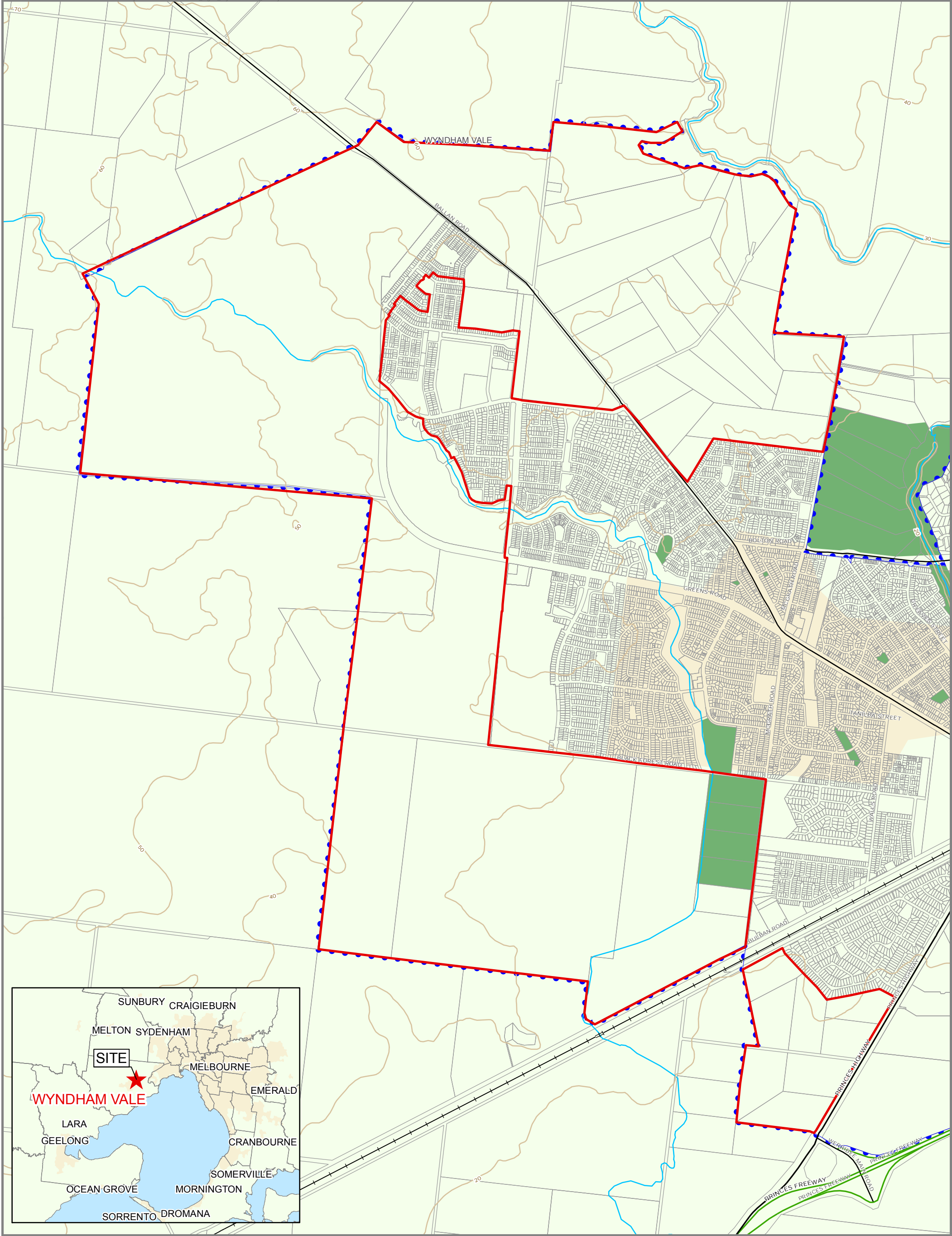
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Figures

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LEGEND

- Wyndham Vale Precinct Area
- Urban Growth Boundary
- Public Park and Recreation Zone
- Cadastre
- Elevation Contours
- Major Watercourses
- Freeway
- Highway
- Arterial Road
- Railway

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CONTEXT MAP OF WYNDHAM VALE PRECINCT AREA

Growth Area Authority
Vegetation Assessment Report
Wyndham Vale, VIC

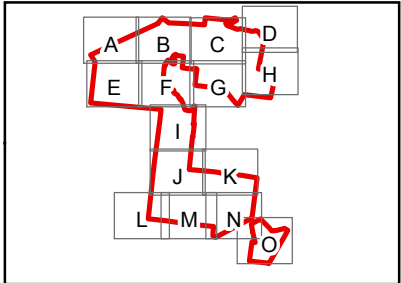
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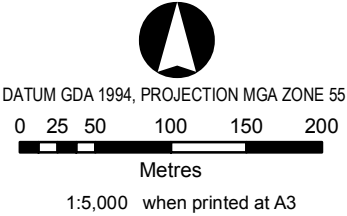


LEGEND

- Wyndham Vale Precinct Area
- Property Boundaries
- 1790392 Property ID Number
- Areas Not Assessed (Drive-by/modelled)
- Multi-use Corridor 20m from Creek
- Multi-use Corridor 50m from Creek
- Scattered Trees**
 - Large Old Tree
 - Very Large Old Tree
 - Scattered Tree Polygons
- Vegetation Communities**
 - Degraded Treeless Vegetation
 - Plains Grassy Woodland (EVC 55)
 - Creekline Grassy Woodland (EVC 68)
 - Plains Grassland (EVC 132)
 - Plains Grassy Wetland (EVC 125)
 - Stony Knoll Shrubland (EVC 649)
- Habitat Zone ID**
Habitat Area (Ha)
1A 0.68 Ha
- DSE Modelled Native Vegetation**
 - Plains Grassy Woodland (EVC 55)
 - Floodplain Riparian Woodland (EVC 56)
 - Plains Grassland (EVC 132)
- DSE Supplied EVC Areas for properties assessed by drive-by
0.68 Ha



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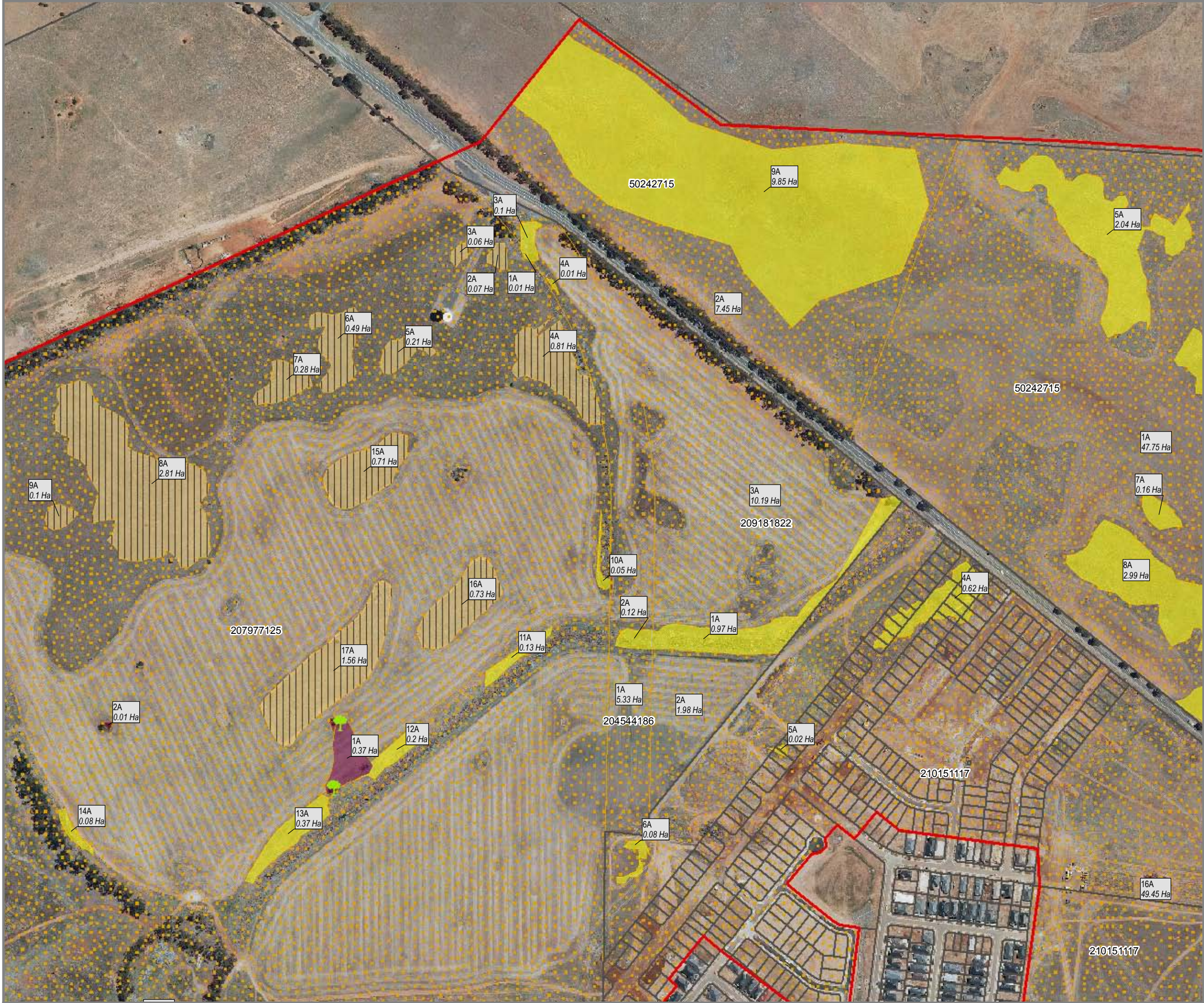


**SIGNIFICANT VEGETATION
- KEY AREAS LIKELY
FOR RETENTION**

Growth Area Authority
*Opportunities for Vegetation
Retention and Biodiversity
Management*
Wyndham Vale, VIC

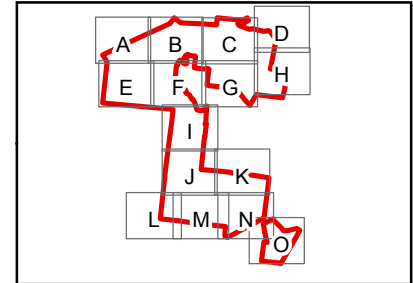
Figure

1A



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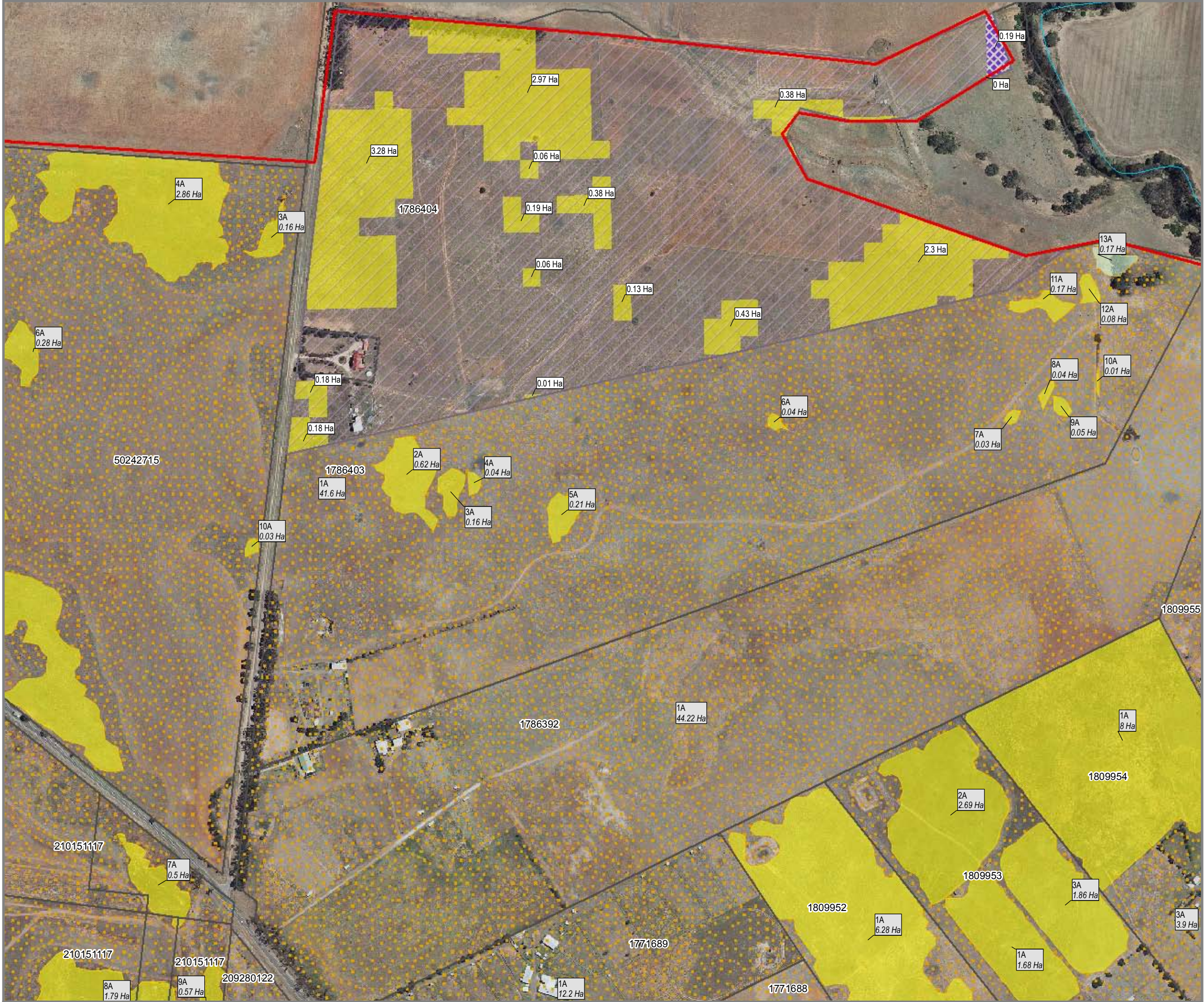
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Wyndham Vale, VIC

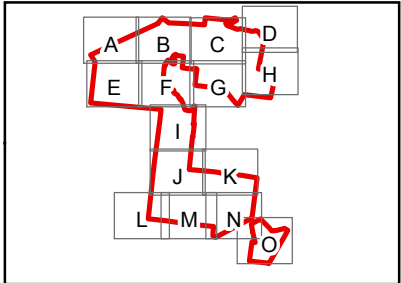
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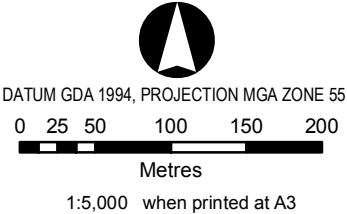


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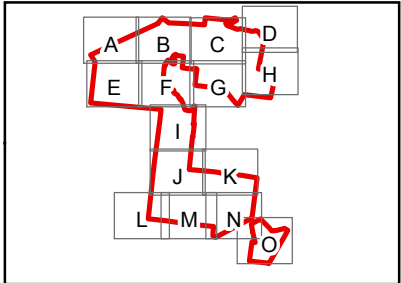
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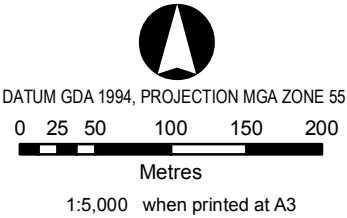


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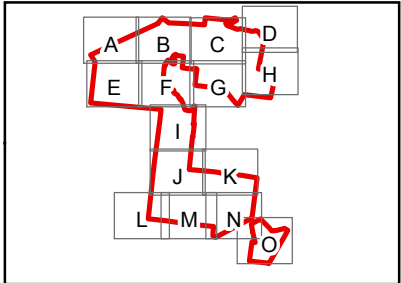
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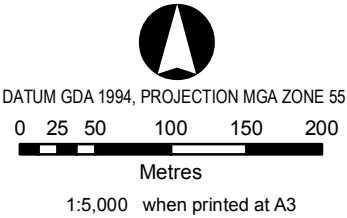


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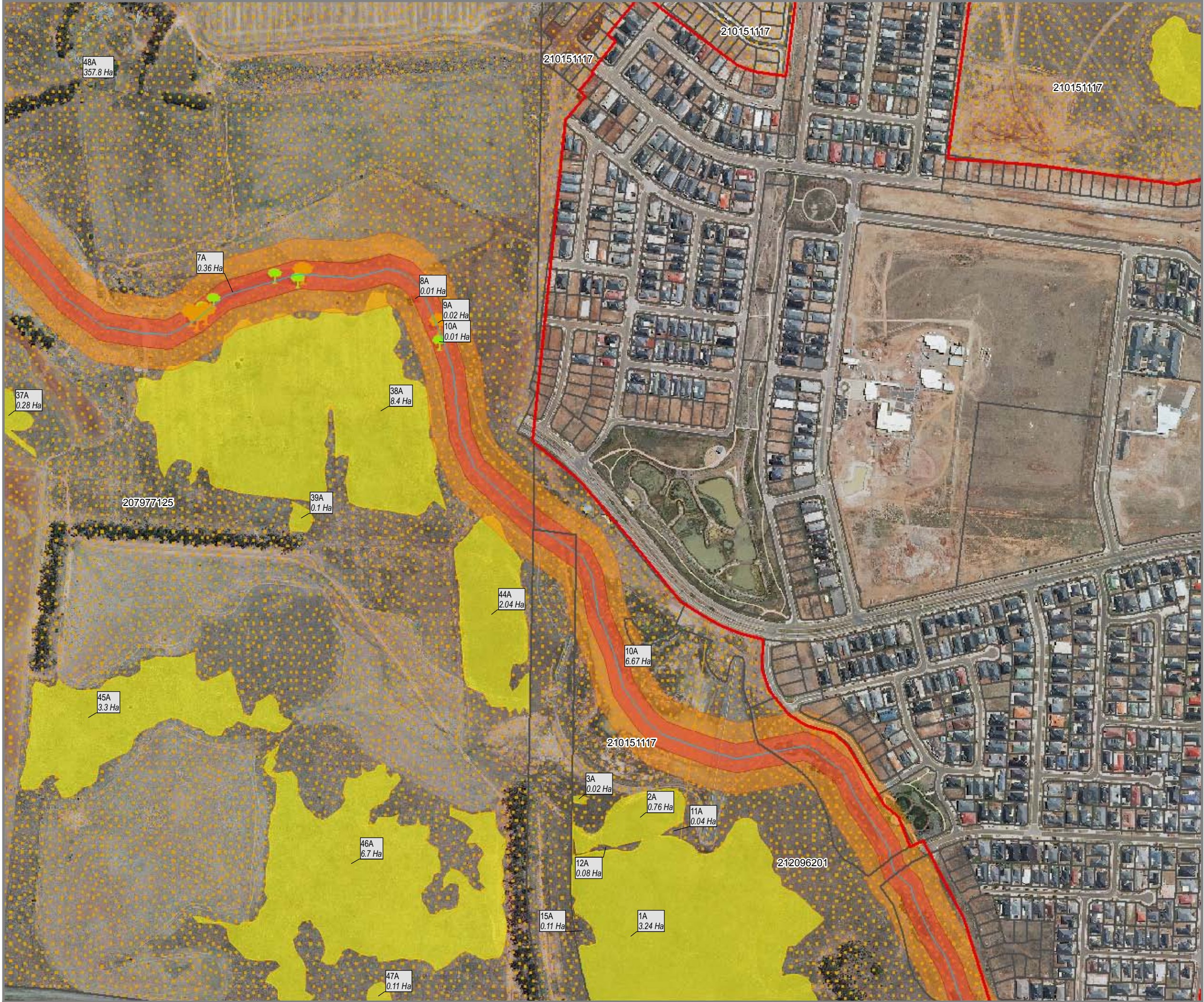


SIGNIFICANT VEGETATION
- KEY AREAS LIKELY
FOR RETENTION

Growth Area Authority
*Opportunities for Vegetation
Retention and Biodiversity
Management*
Wyndham Vale, VIC

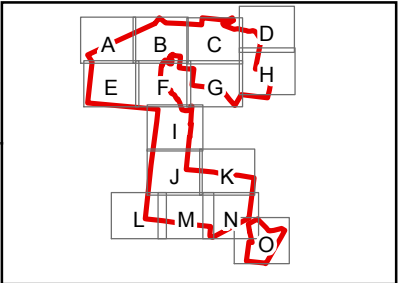
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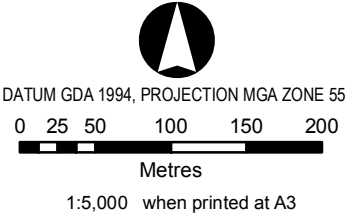


LEGEND

- Wyndham Vale Precinct Area
- Property Boundaries
- Property ID Number
- Areas Not Assessed (Drive-by/modelled)
- Multi-use Corridor 20m from Creek
- Multi-use Corridor 50m from Creek
- Scattered Trees**
 - Large Old Tree
 - Very Large Old Tree
 - Scattered Tree Polygons
- Vegetation Communities**
 - Degraded Treeless Vegetation
 - Plains Grassy Woodland (EVC 55)
 - Creekline Grassy Woodland (EVC 68)
 - Plains Grassland (EVC 132)
 - Plains Grassy Wetland (EVC 125)
 - Stony Knoll Shrubland (EVC 649)
- Habitat Zone ID**
 - Habitat Area (Ha)
- DSE Modelled Native Vegetation**
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Growth Area Authority
Opportunities for Vegetation
Retention and Biodiversity
Management
Wyndham Vale, VIC

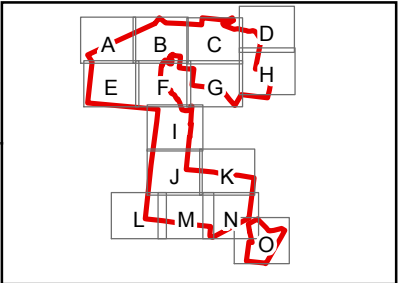
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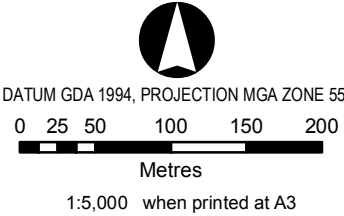


LEGEND

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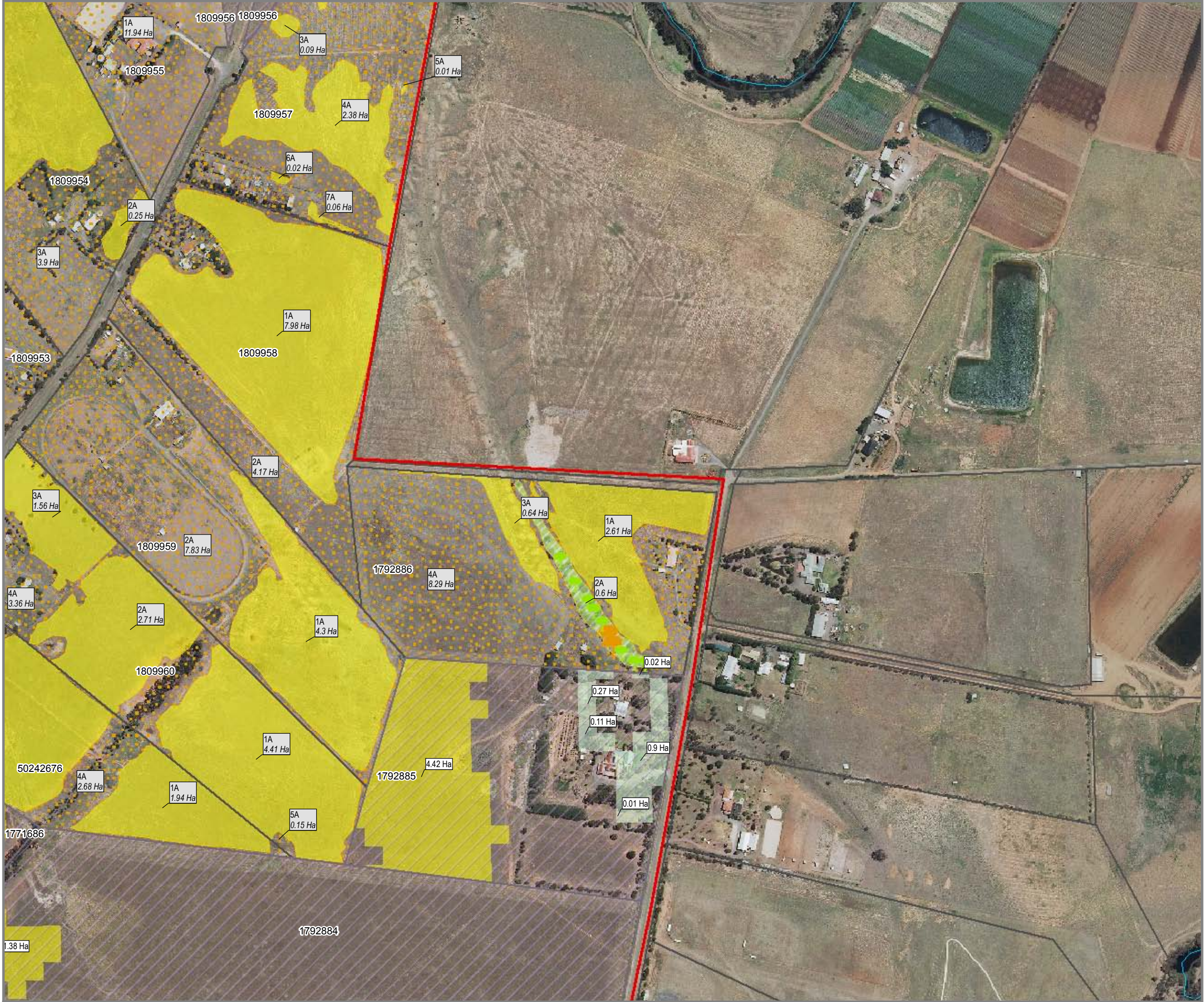


SIGNIFICANT VEGETATION
- KEY AREAS LIKELY
FOR RETENTION

Growth Area Authority
Opportunities for Vegetation
Retention and Biodiversity
Management
Wyndham Vale, VIC

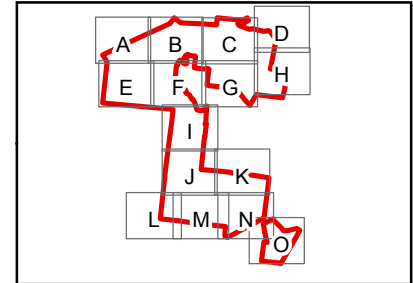
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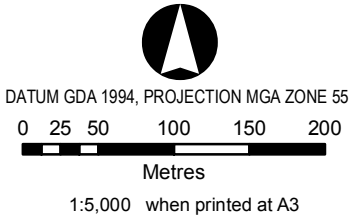


LEGEND

- Wyndham Vale Precinct Area
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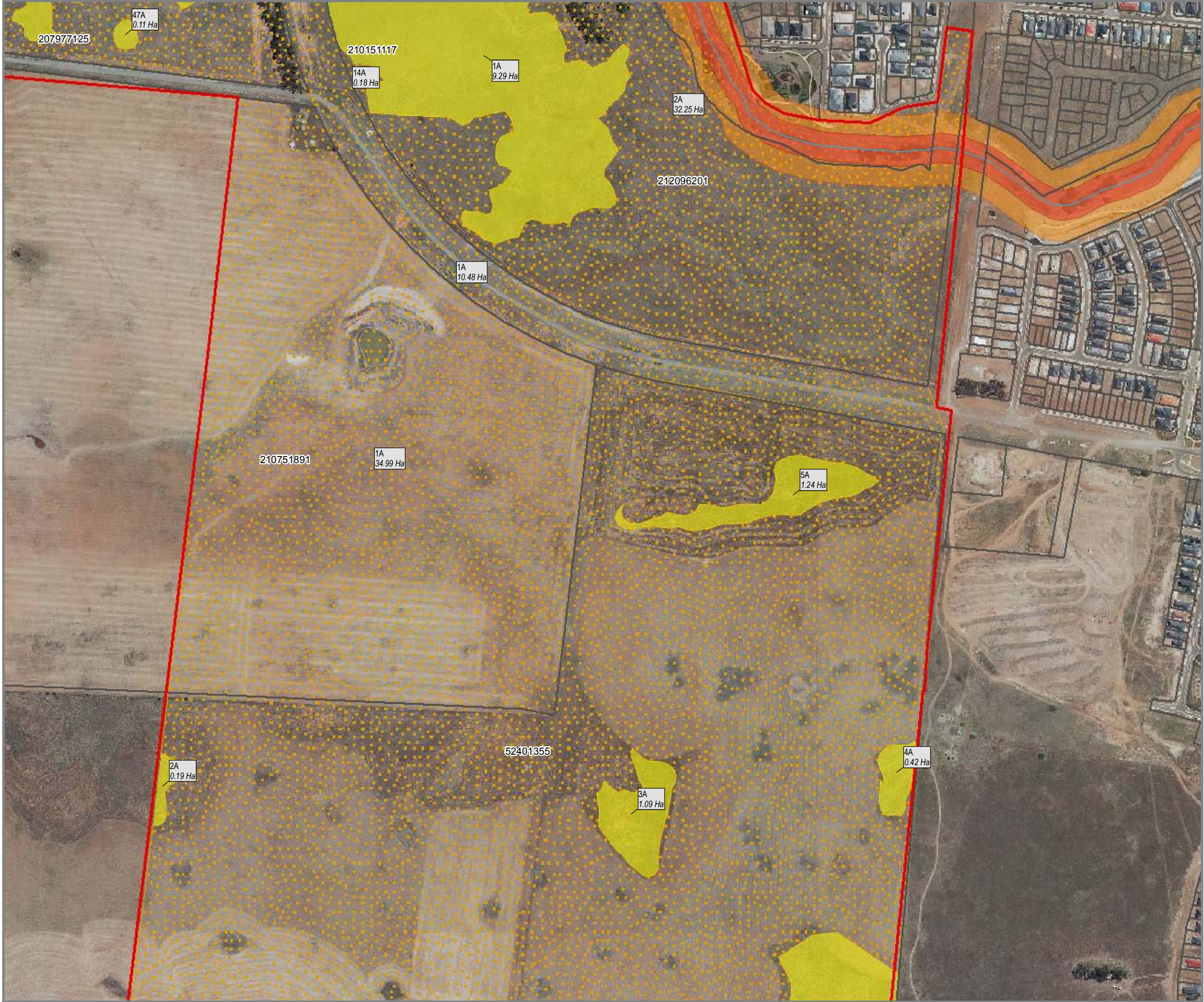


SIGNIFICANT VEGETATION
- KEY AREAS LIKELY
FOR RETENTION

Growth Area Authority
*Opportunities for Vegetation
Retention and Biodiversity
Management*
Wyndham Vale, VIC

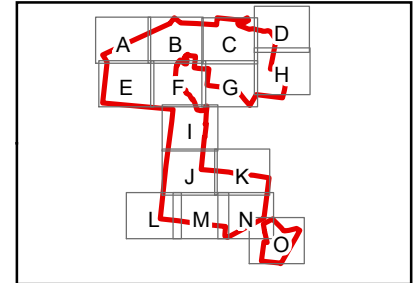
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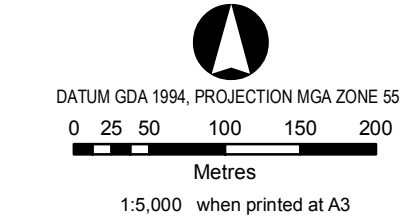


LEGEND

- Wyndham Vale Precinct Area
- Property Boundaries
- Property ID Number
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- Multi-use Corridor 20m from Creek
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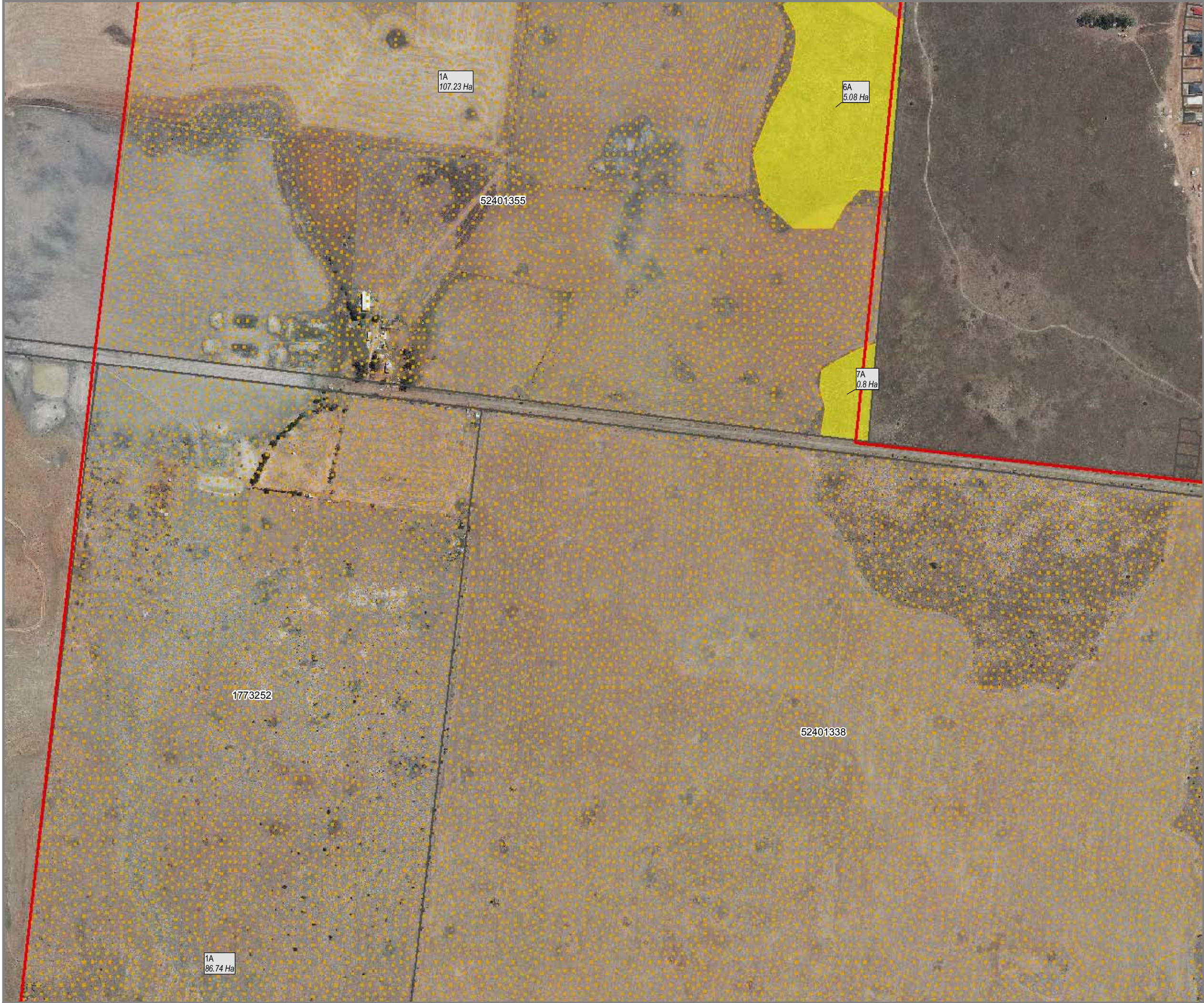


**SIGNIFICANT VEGETATION
- KEY AREAS LIKELY
FOR RETENTION**

Growth Area Authority
*Opportunities for Vegetation
Retention and Biodiversity
Management*
Wyndham Vale, VIC

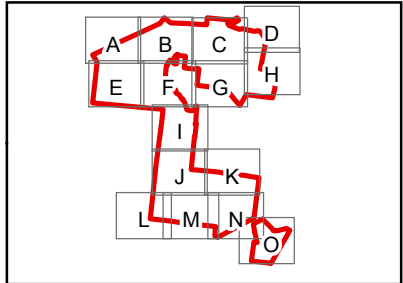
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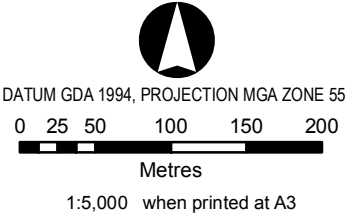


LEGEND

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SIGNIFICANT VEGETATION
- KEY AREAS LIKELY
FOR RETENTION

Growth Area Authority
*Opportunities for Vegetation
Retention and Biodiversity
Management*
Wyndham Vale, VIC

Figure

1J



LEGEND

- Wyndham Vale Precinct Area
- Property Boundaries
- Property ID Number
- Areas Not Assessed (Drive-by/modelled)
- Multi-use Corridor 20m from Creek
- Multi-use Corridor 50m from Creek

Scattered Trees

- Large Old Tree
- Very Large Old Tree
- Scattered Tree Polygons

Vegetation Communities

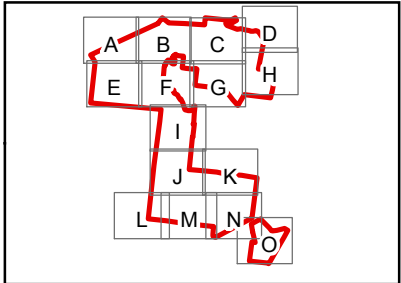
- Degraded Treeless Vegetation
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- Plains Grassland (EVC 132)
- Plains Grassy Wetland (EVC 125)
- Stony Knoll Shrubland (EVC 649)

Habitat Zone ID
Habitat Area (Ha)

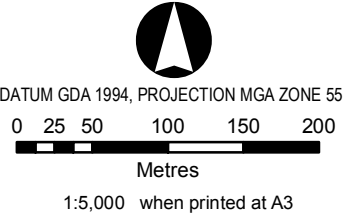
DSE Modelled Native Vegetation

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- Floodplain Riparian Woodland (EVC 56)
- Plains Grassland (EVC 132)

DSE Supplied EVC Areas for properties assessed by drive-by



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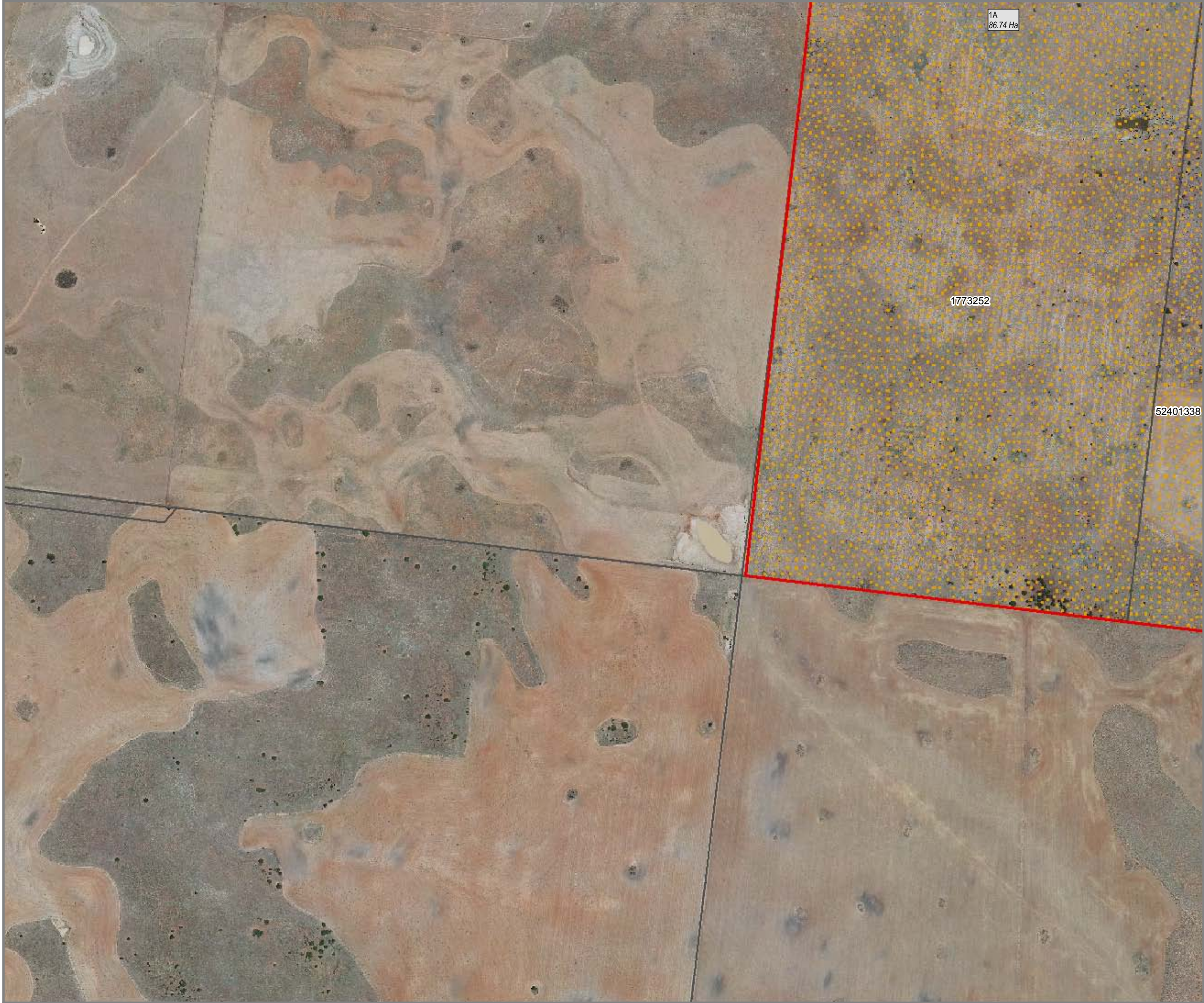


**SIGNIFICANT VEGETATION
- KEY AREAS LIKELY
FOR RETENTION**

Growth Area Authority
*Opportunities for Vegetation
Retention and Biodiversity
Management*
Wyndham Vale, VIC

Figure

1K



LEGEND

Wyndham Vale Precinct Area

Property Boundaries

1790392

Property ID Number

Areas Not Assessed (Drive-by/modelled)

Multi-use Corridor 20m from Creek

Multi-use Corridor 50m from Creek

Scattered Trees

Large Old Tree

Very Large Old Tree

Scattered Tree Polygons

Vegetation Communities

Degraded Treeless Vegetation

Plains Grassy Woodland (EVC 55)

Creekline Grassy Woodland (EVC 68)

Plains Grassland (EVC 132)

Plains Grassy Wetland (EVC 125)

Stony Knoll Shrubland (EVC 649)

1A

Habitat Zone ID

0.68 Ha

Habitat Area (Ha)

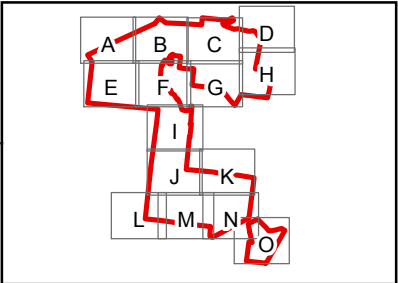
Plains Grassy Woodland (EVC 55)

Floodplain Riparian Woodland (EVC 56)

Plains Grassland (EVC 132)

0.68 Ha

DSE Supplied EVC Areas for properties assessed by drive-by



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DATUM GDA 1994, PROJECTION MGA ZONE 55

0 25 50 100 150 200

Metres

1:5,000 when printed at A3

SIGNIFICANT VEGETATION
- KEY AREAS LIKELY
FOR RETENTION

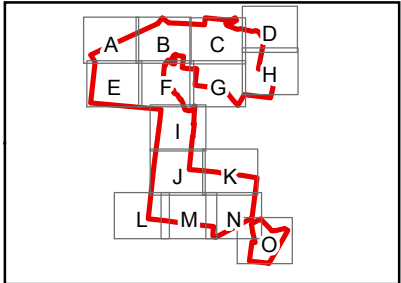
Growth Area Authority
*Opportunities for Vegetation
Retention and Biodiversity
Management*
Wyndham Vale, VIC

Figure
1L

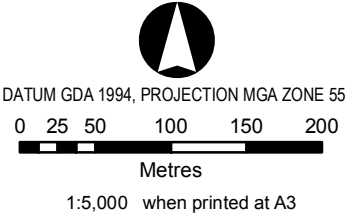


LEGEND

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SIGNIFICANT VEGETATION
- KEY AREAS LIKELY
FOR RETENTION

Growth Area Authority
*Opportunities for Vegetation
Retention and Biodiversity
Management*
Wyndham Vale, VIC

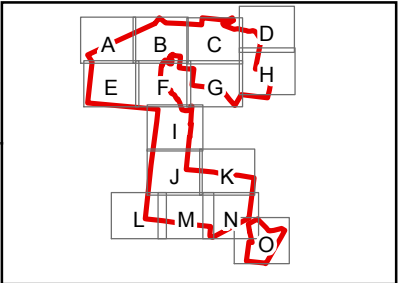
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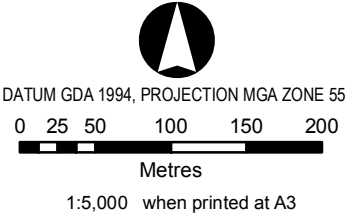


LEGEND

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SIGNIFICANT VEGETATION
- KEY AREAS LIKELY
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Growth Area Authority
*Opportunities for Vegetation
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Wyndham Vale, VIC

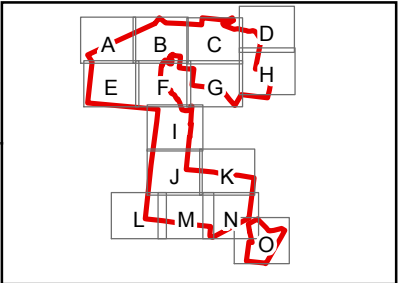
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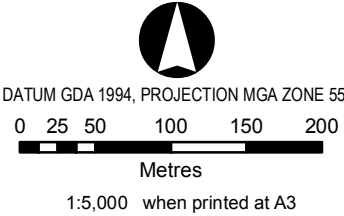


LEGEND

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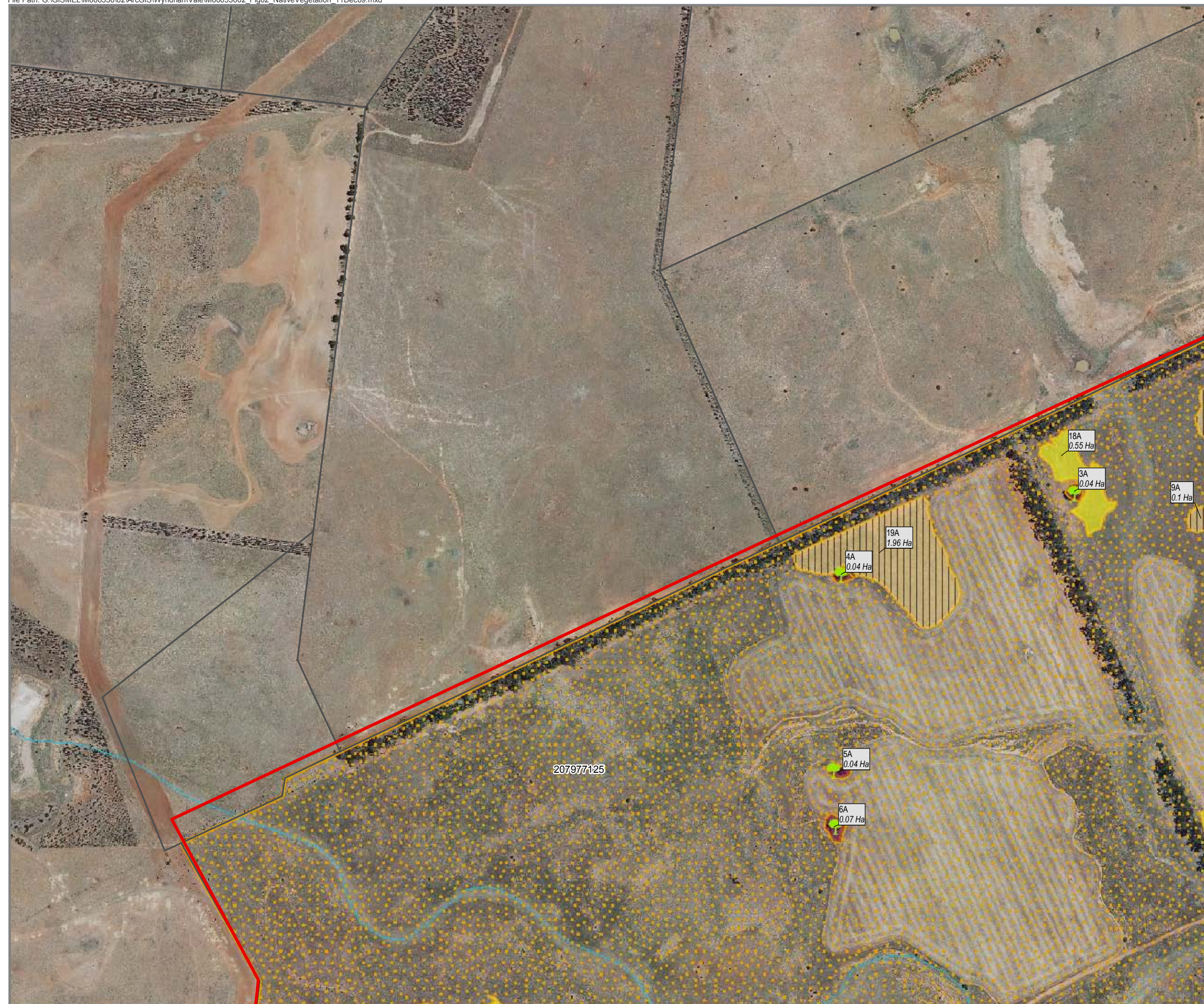


SIGNIFICANT VEGETATION
- KEY AREAS LIKELY
FOR RETENTION




Growth Area Authority
Opportunities for Vegetation
Retention and Biodiversity
Management
Wyndham Vale, VIC

Figure

10



LEGEND

-  Wyndham Vale Precinct Area
 -  Property Boundaries
 -  Property ID Number





Scattered Trees

- Large Old Tree
- Very Large Old Tree
- Scattered Tree Polygons





Vegetation Communities

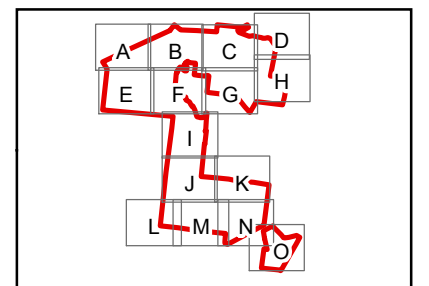
- | | |
|---|---|
|  | Degraded Treeless Vegetation |
|  | Plains Grassy Woodland (EVC 55) |
|  | Creekline Grassy Woodland (EVC 68) |
|  | Plains Grassland (EVC 132) |
|  | Plains Grassy Wetland (EVC 125) |
|  | Stony Knoll Shrubland (EVC 649) |
|  | Habitat Zone ID
<i>Habitat Area (Ha)</i> |

Drive-by Assessments

-  Areas Not Assessed (Drive-by/modelled)
 Highly Likely Native Vegetation - Grassy
 Possible Native Vegetation
 No Native Vegetation

DSE Modelled Native Vegetation

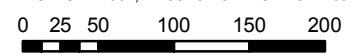
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DATUM GDA 1994. PROJECTION MGA ZONE 55



Metres

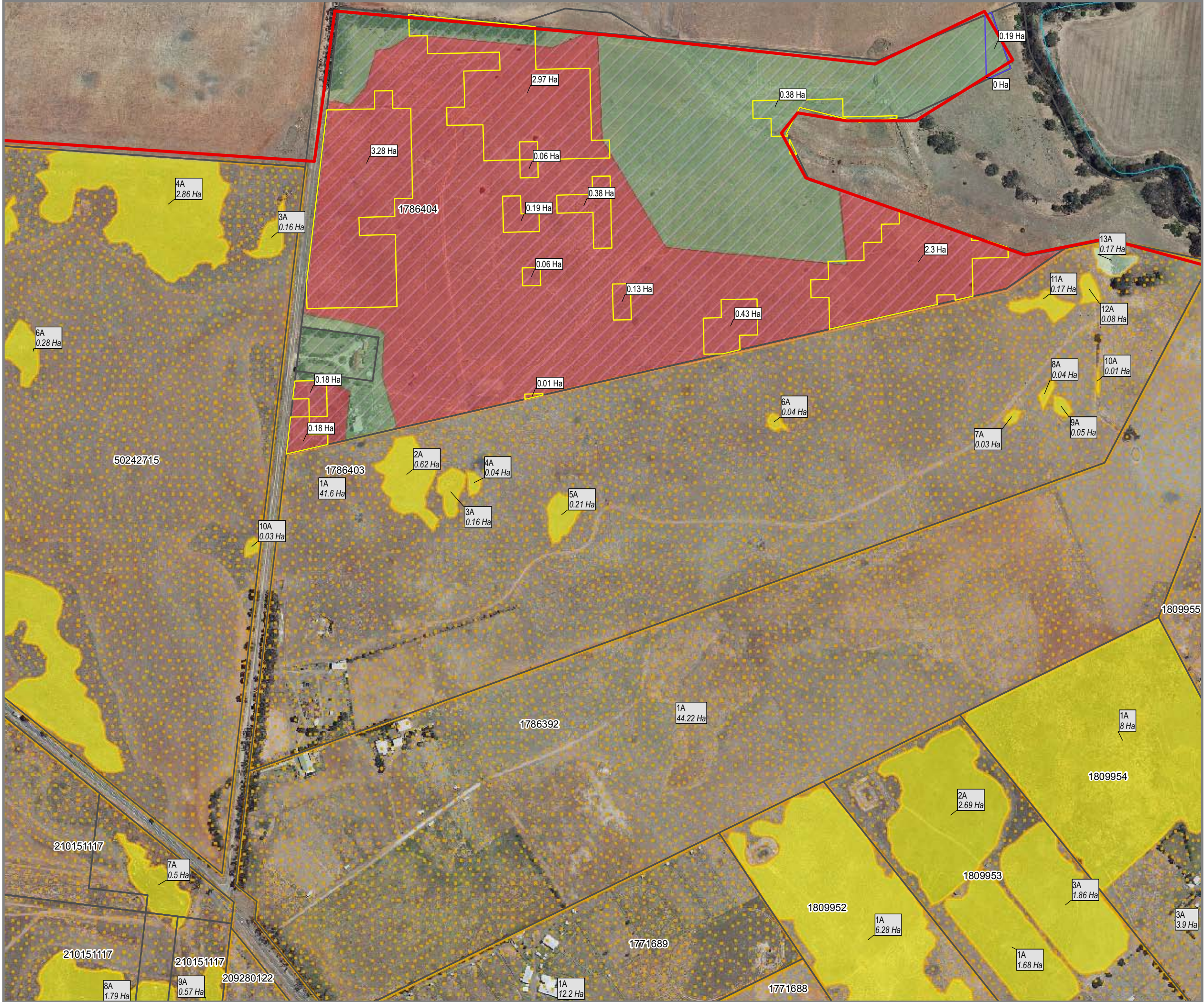
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NATIVE VEGETATION WITHIN THE STUDY AREA

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

Figure

2A



LEGEND

- Wyndham Vale Precinct Area
- Property Boundaries
- Property ID Number

Scattered Trees

- Large Old Tree
- Very Large Old Tree
- Scattered Tree Polygons

Vegetation Communities

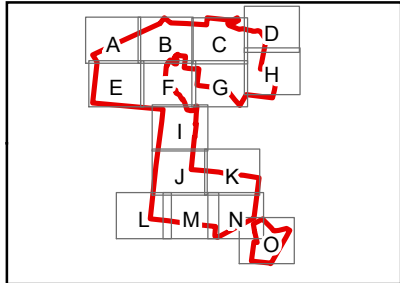
- Degraded Treeless Vegetation
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- Plains Grassy Wetland (EVC 125)
- Stony Knoll Shrubland (EVC 649)
- Habitat Zone ID
Habitat Area (Ha)

Drive-by Assessments

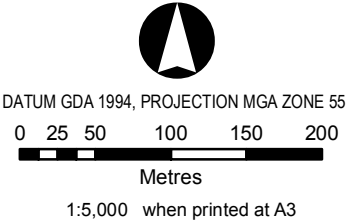
- Areas Not Assessed (Drive-by/modelled)
- Highly Likely Native Vegetation - Grassy
- Possible Native Vegetation
- No Native Vegetation

DSE Modelled Native Vegetation

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NATIVE VEGETATION
WITHIN THE STUDY AREA

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

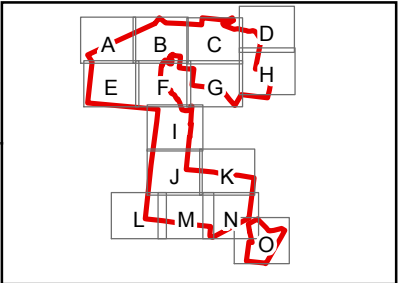
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2C

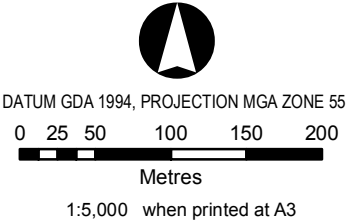


LEGEND

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- Property Boundaries
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- Scattered Trees**
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 - Scattered Tree Polygons
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 - Plains Grassland (EVC 132)
 - DSE Supplied EVC Areas for properties assessed by drive-by



Data Sources: Incidental records collected by AECOM (formerly ENSR Australia Pty Ltd).
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NATIVE VEGETATION
WITHIN THE STUDY AREA

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

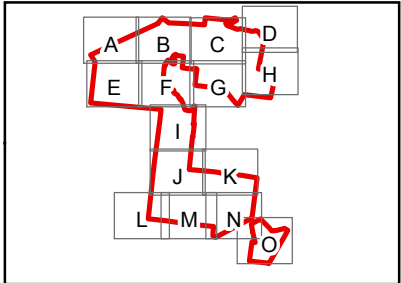
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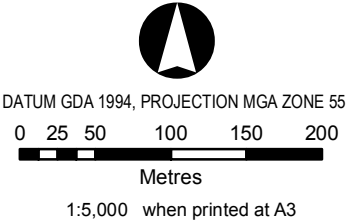


LEGEND

- Wyndham Vale Precinct Area
- Property Boundaries
- Property ID Number
- Scattered Trees**
 - Large Old Tree
 - Very Large Old Tree
 - Scattered Tree Polygons
- Vegetation Communities**
 - Degraded Treeless Vegetation
 - Plains Grassy Woodland (EVC 55)
 - Creekline Grassy Woodland (EVC 68)
 - Plains Grassland (EVC 132)
 - Plains Grassy Wetland (EVC 125)
 - Stony Knoll Shrubland (EVC 649)
 - Habitat Zone ID
 - Habitat Area (Ha)
- Drive-by Assessments**
 - Areas Not Assessed (Drive-by/modelled)
 - Highly Likely Native Vegetation - Grassy
 - Possible Native Vegetation
 - No Native Vegetation
- DSE Modelled Native Vegetation**
 - Plains Grassy Woodland (EVC 55)
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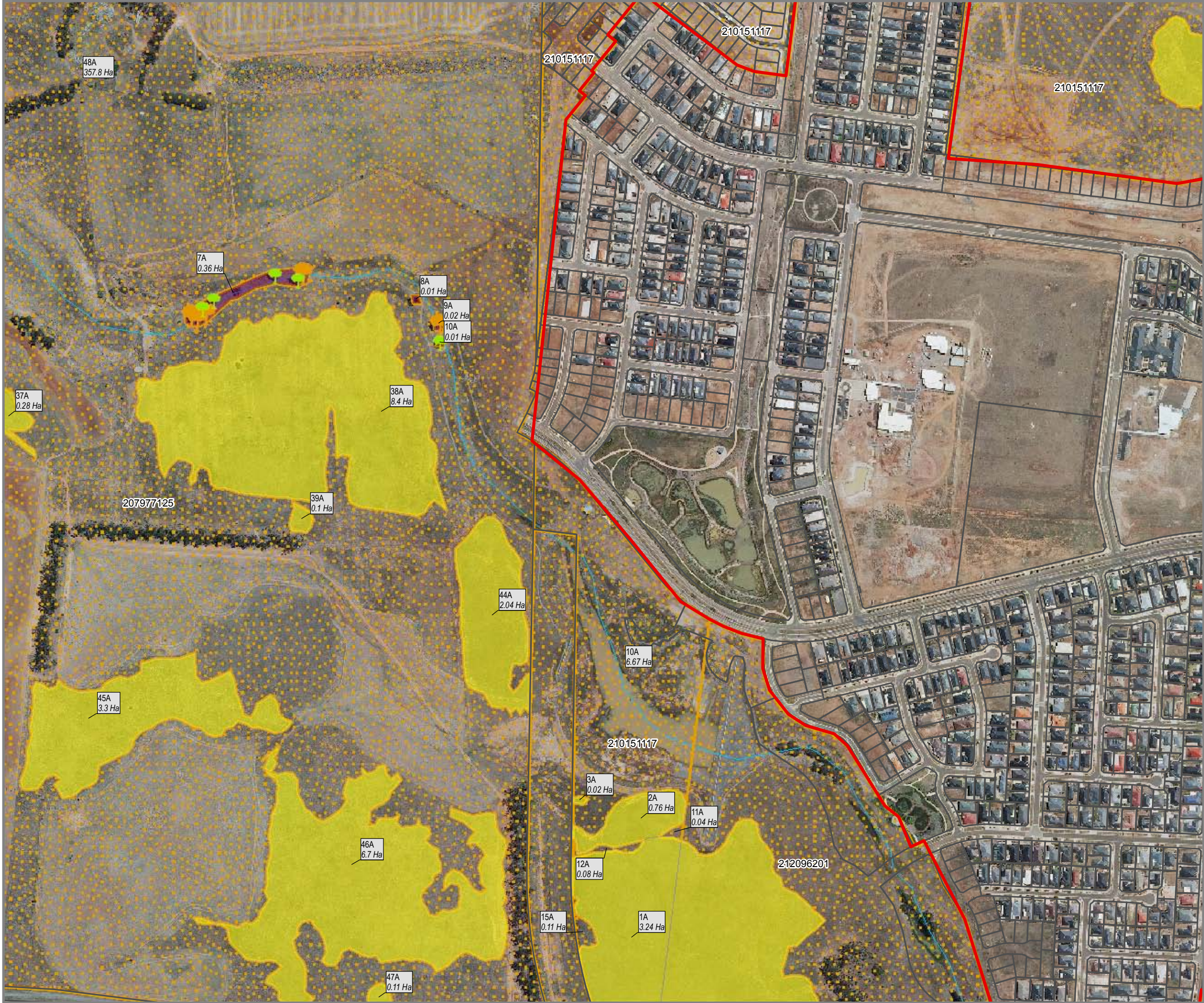


NATIVE VEGETATION
WITHIN THE STUDY AREA

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

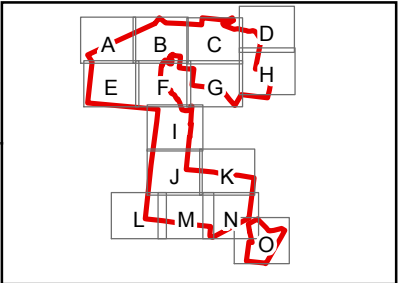
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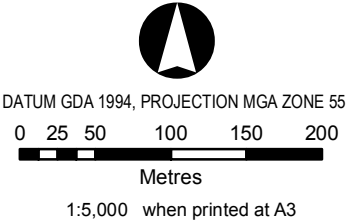


LEGEND

- Wyndham Vale Precinct Area
- Property Boundaries
- Property ID Number
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 - Large Old Tree
 - Very Large Old Tree
 - Scattered Tree Polygons
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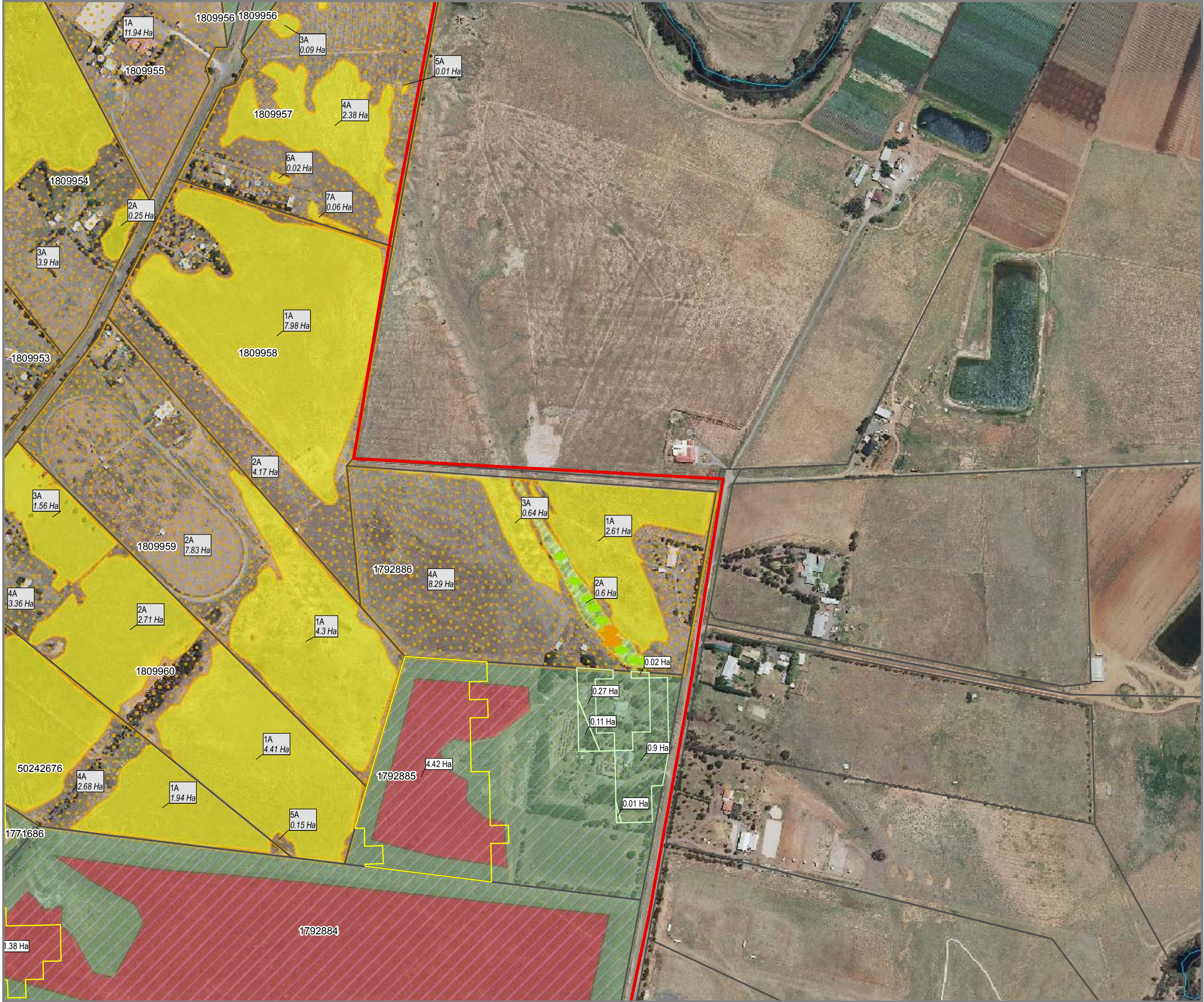
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NATIVE VEGETATION
WITHIN THE STUDY AREA

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

Figure
2F



LEGEND

- Wyndham Vale Precinct Area
- Property Boundaries
- Property ID Number

Scattered Trees

- Large Old Tree
- Very Large Old Tree
- Scattered Tree Polygons

Vegetation Communities

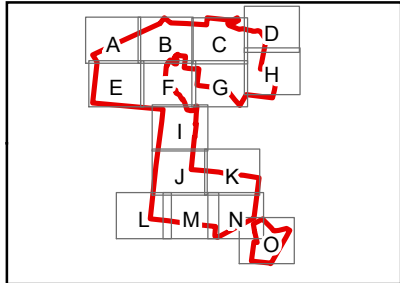
- Degraded Treeless Vegetation
- Plains Grassy Woodland (EVC 55)
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- Plains Grassland (EVC 132)
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- Habitat Zone ID
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Drive-by Assessments

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DATUM GDA 1994, PROJECTION MGA ZONE 55

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Metres

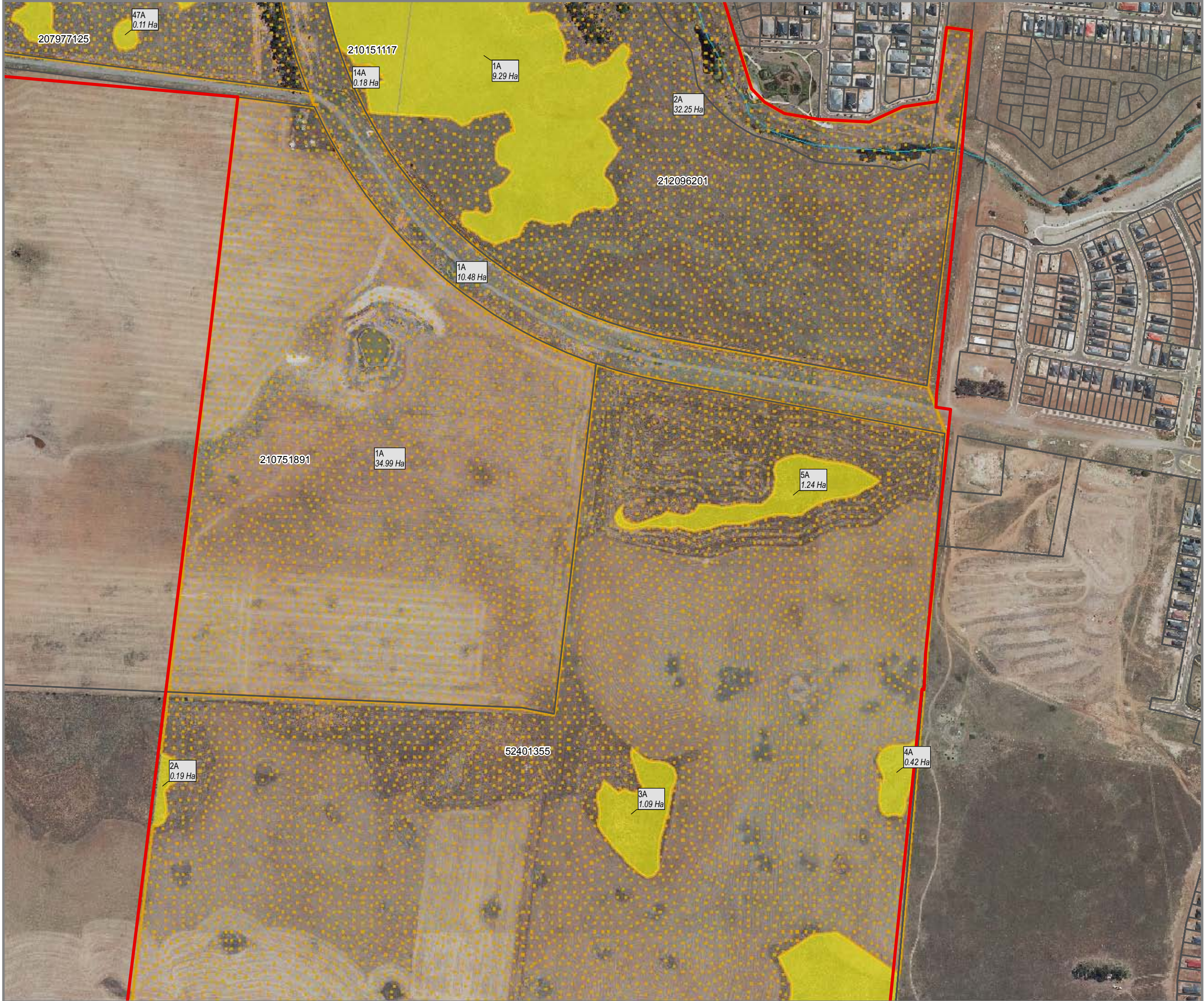
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NATIVE VEGETATION
WITHIN THE STUDY AREA

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

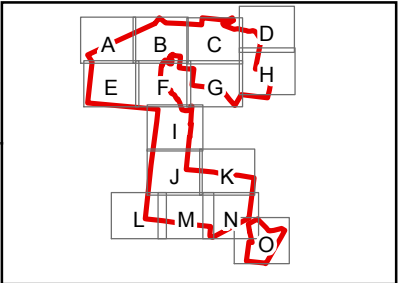
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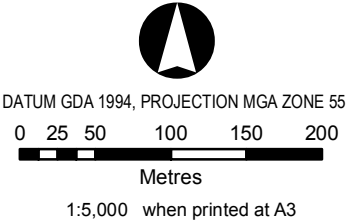


LEGEND

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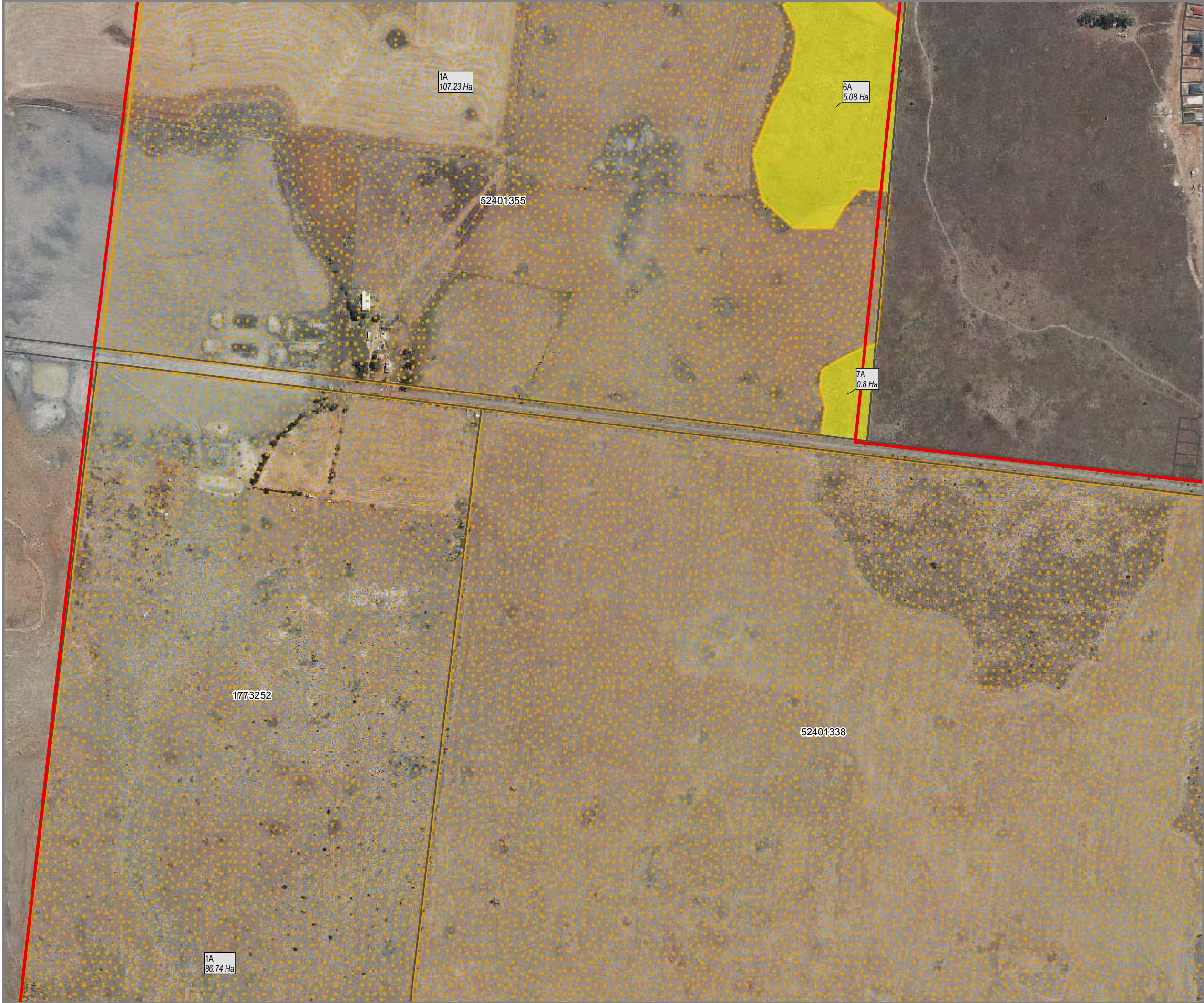


NATIVE VEGETATION
WITHIN THE STUDY AREA

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

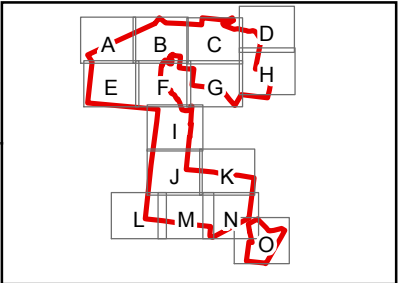
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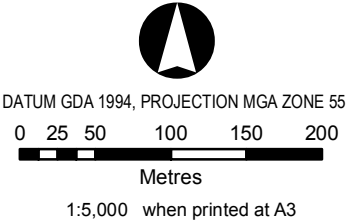


LEGEND

- Wyndham Vale Precinct Area
- Property Boundaries
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NATIVE VEGETATION
WITHIN THE STUDY AREA

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

Figure

2J



LEGEND

- Wyndham Vale Precinct Area
- Property Boundaries
- 1790392 Property ID Number

Scattered Trees

- Large Old Tree
- Very Large Old Tree
- Scattered Tree Polygons

Vegetation Communities

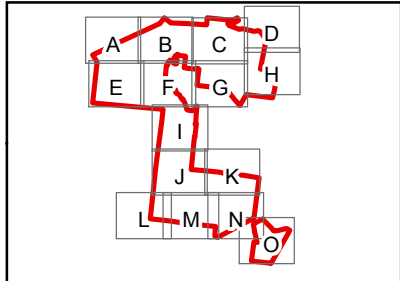
- Degraded Treeless Vegetation
- Plains Grassy Woodland (EVC 55)
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- 1A Habitat Zone ID
- 0.68 Ha Habitat Area (Ha)

Drive-by Assessments

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DATUM GDA 1994, PROJECTION MGA ZONE 55

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Metres

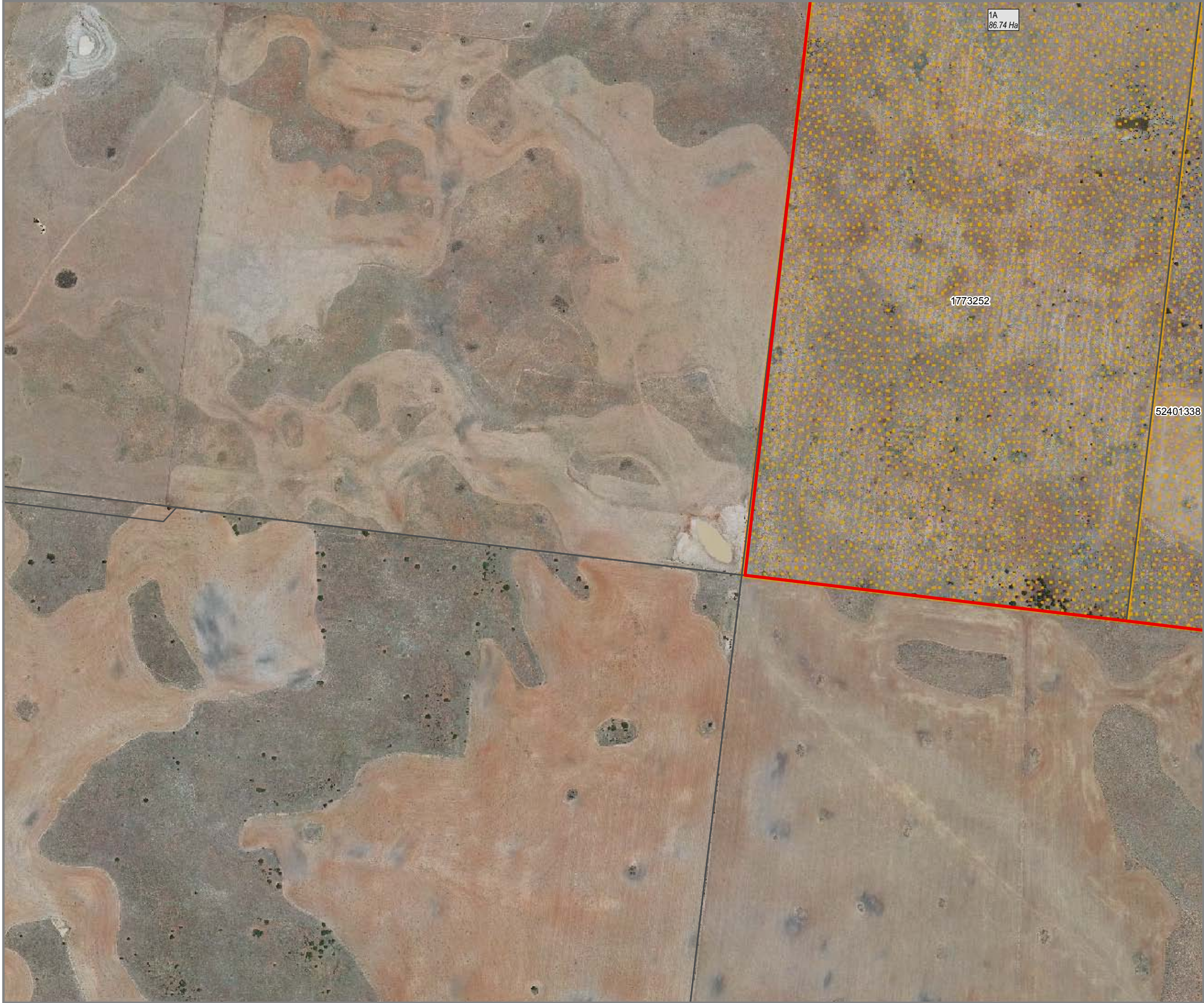
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NATIVE VEGETATION
WITHIN THE STUDY AREA

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

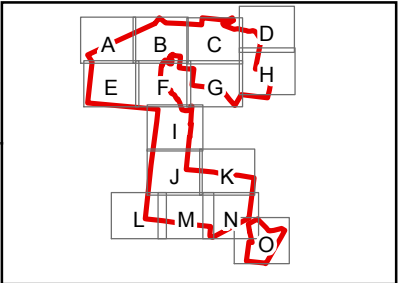
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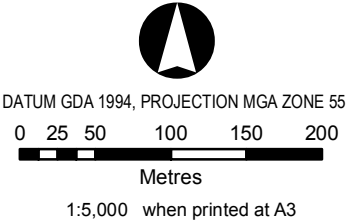


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NATIVE VEGETATION
WITHIN THE STUDY AREA

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

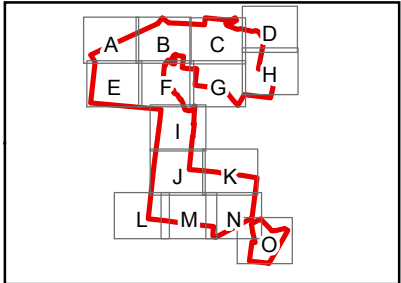
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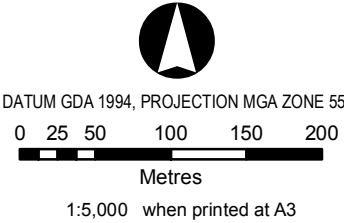


LEGEND

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NATIVE VEGETATION
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Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

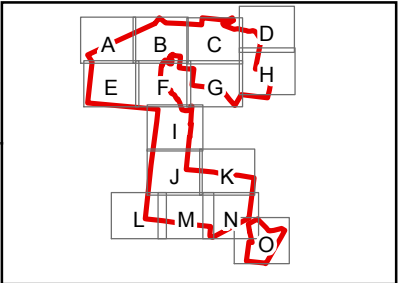
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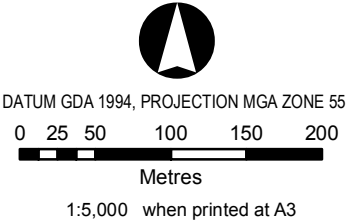


LEGEND

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NATIVE VEGETATION
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Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

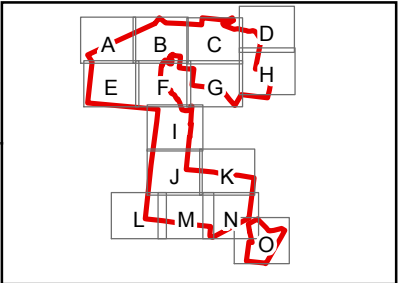
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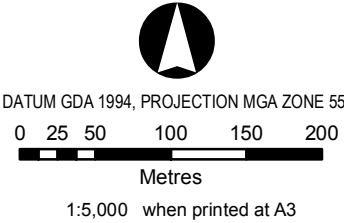


LEGEND

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NATIVE VEGETATION
WITHIN THE STUDY AREA

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

Figure

20

LEGEND

Wyndham Vale Precinct Area

Property Boundaries

1790392

Property ID Number

Areas of High Conservation Significance

1A
0.68 Ha

Habitat Zone ID
Habitat Area (Ha)

Drive-by Assessments

Areas Not Assessed (Drive-by/modelled)

Highly Likely Native Vegetation - Grassy

Possible Native Vegetation

No Native Vegetation

DSE Modelled Native Vegetation

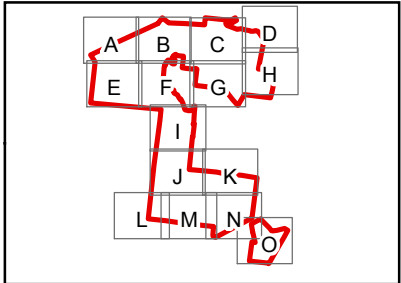
Plains Grassy Woodland (EVC 55)

Floodplain Riparian Woodland (EVC 56)

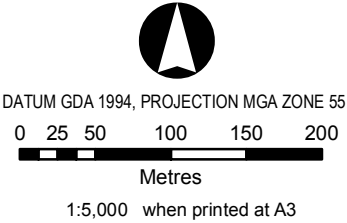
Plains Grassland (EVC 132)

0.68 Ha

DSE Supplied EVC Areas for
properties assessed by drive-by



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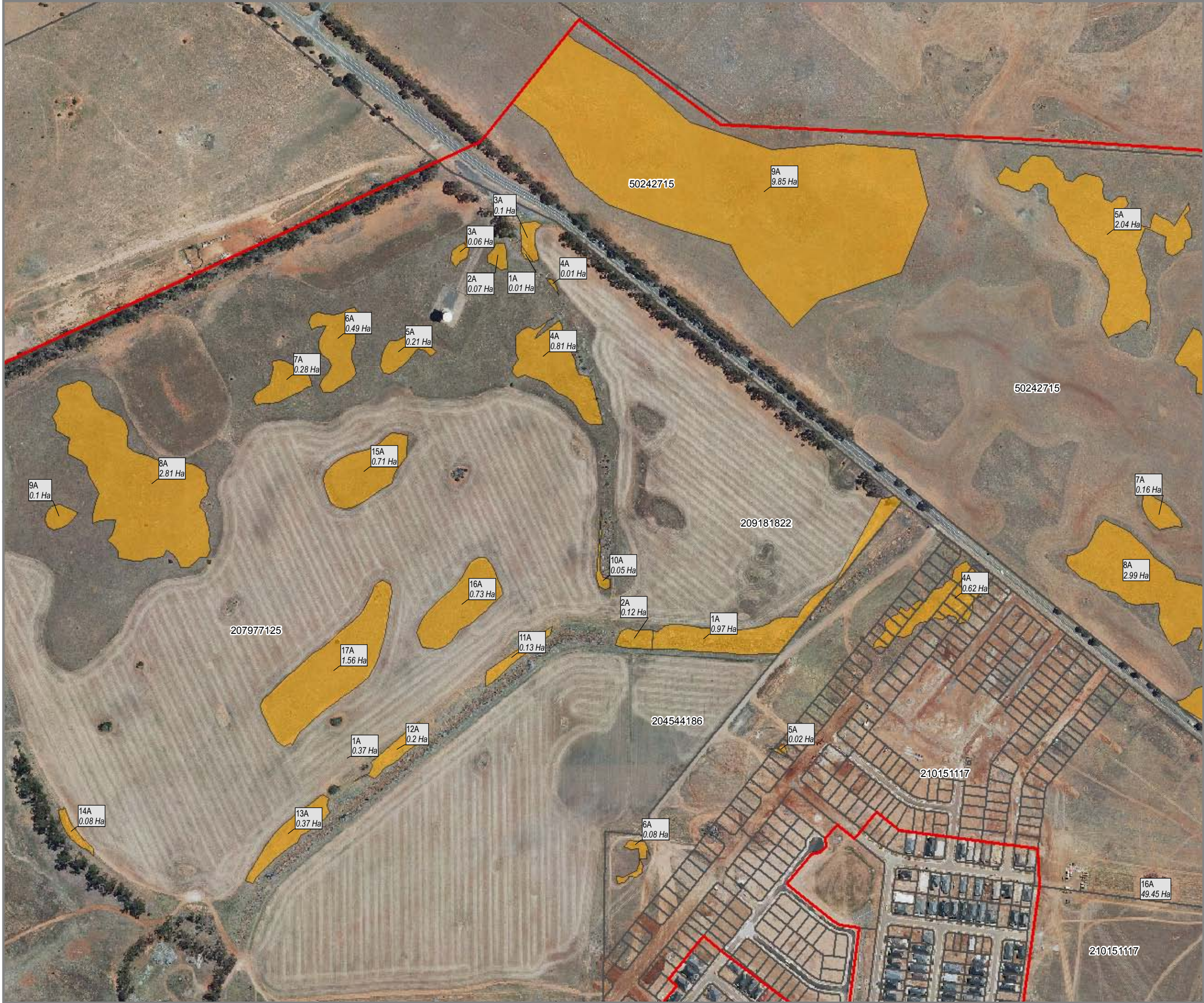


VEGETATION QUALITY
OF HABITAT ZONES

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

Figure

3A



LEGEND

Wyndham Vale Precinct Area

Property Boundaries

1790392 Property ID Number

Areas of High Conservation Significance

1A Habitat Zone ID
0.68 Ha Habitat Area (Ha)

Drive-by Assessments

Areas Not Assessed (Drive-by/modelled)

Highly Likely Native Vegetation - Grassy

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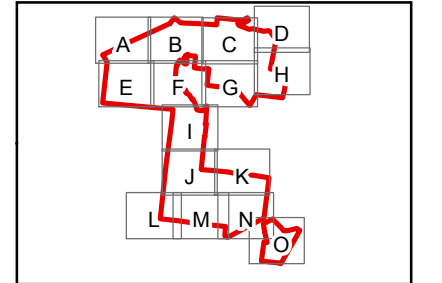
DSE Modelled Native Vegetation

Plains Grassy Woodland (EVC 55)

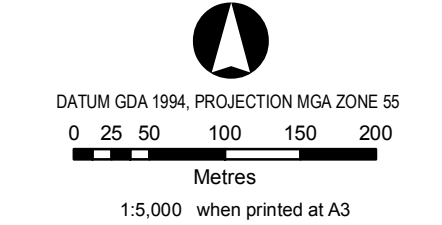
Floodplain Riparian Woodland (EVC 56)

Plains Grassland (EVC 132)

DSE Supplied EVC Areas for properties assessed by drive-by



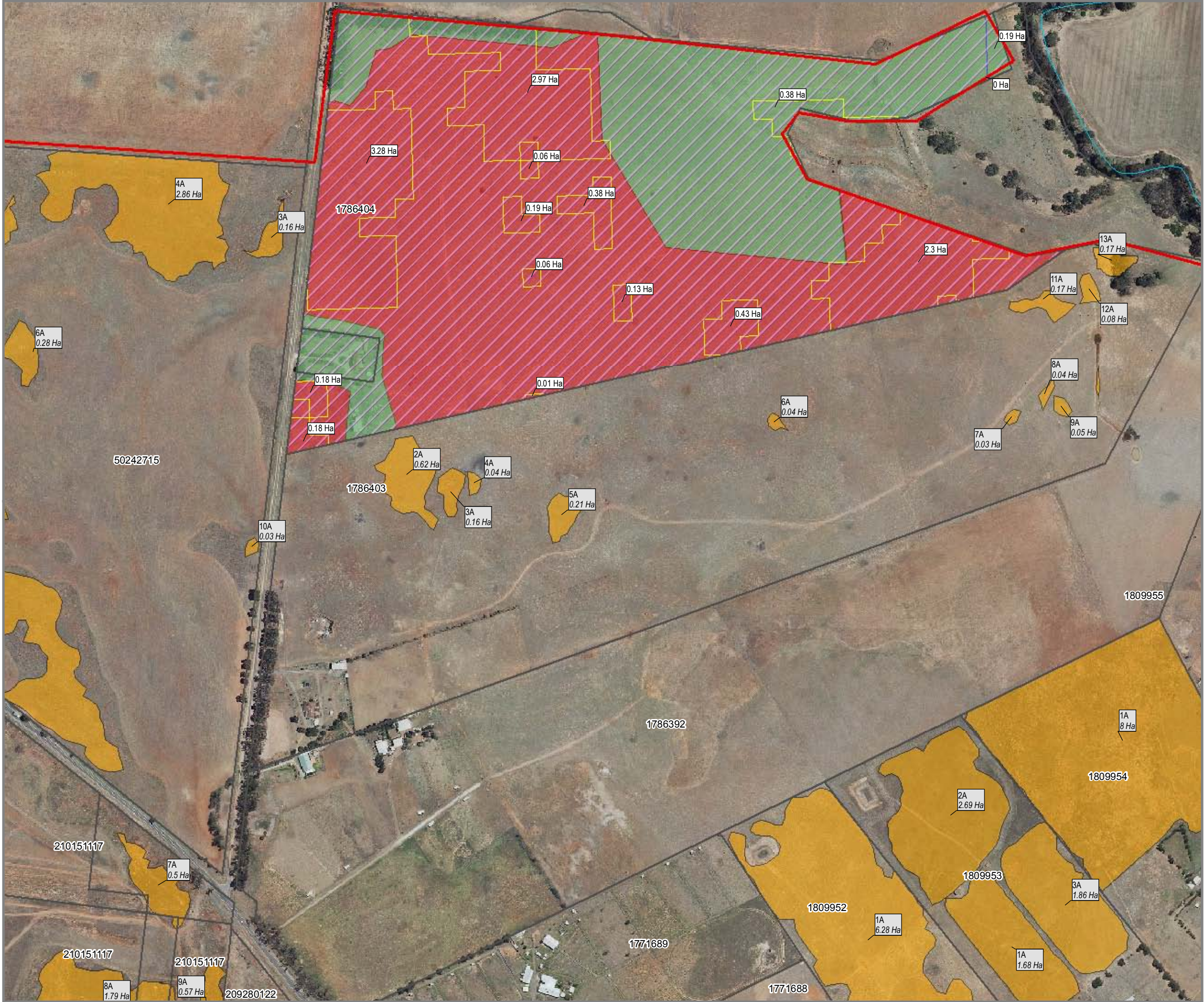
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VEGETATION QUALITY OF HABITAT ZONES

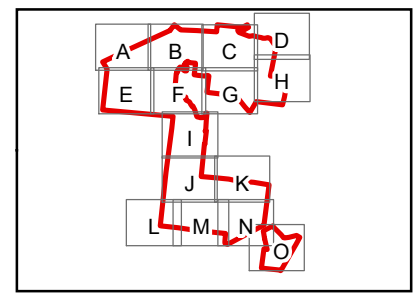
Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

Figure
3B

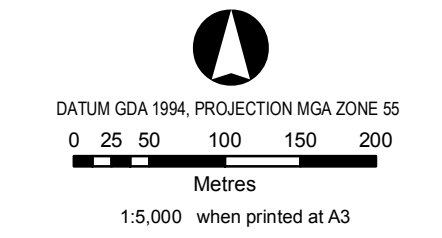


LEGEND

- Wyndham Vale Precinct Area
- Property Boundaries
- Property ID Number
- Areas of High Conservation Significance
- Habitat Zone ID
Habitat Area (Ha)
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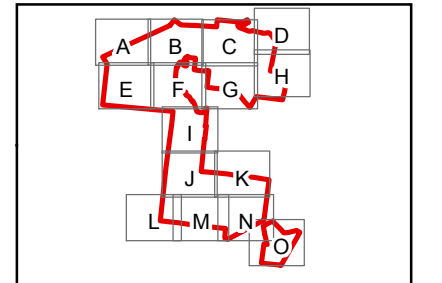


VEGETATION QUALITY OF HABITAT ZONES



LEGEND

- Wyndham Vale Precinct Area
- Property Boundaries
- 1790392 Property ID Number
- Areas of High Conservation Significance
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DATUM GDA 1994, PROJECTION MGA ZONE 55

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Metres

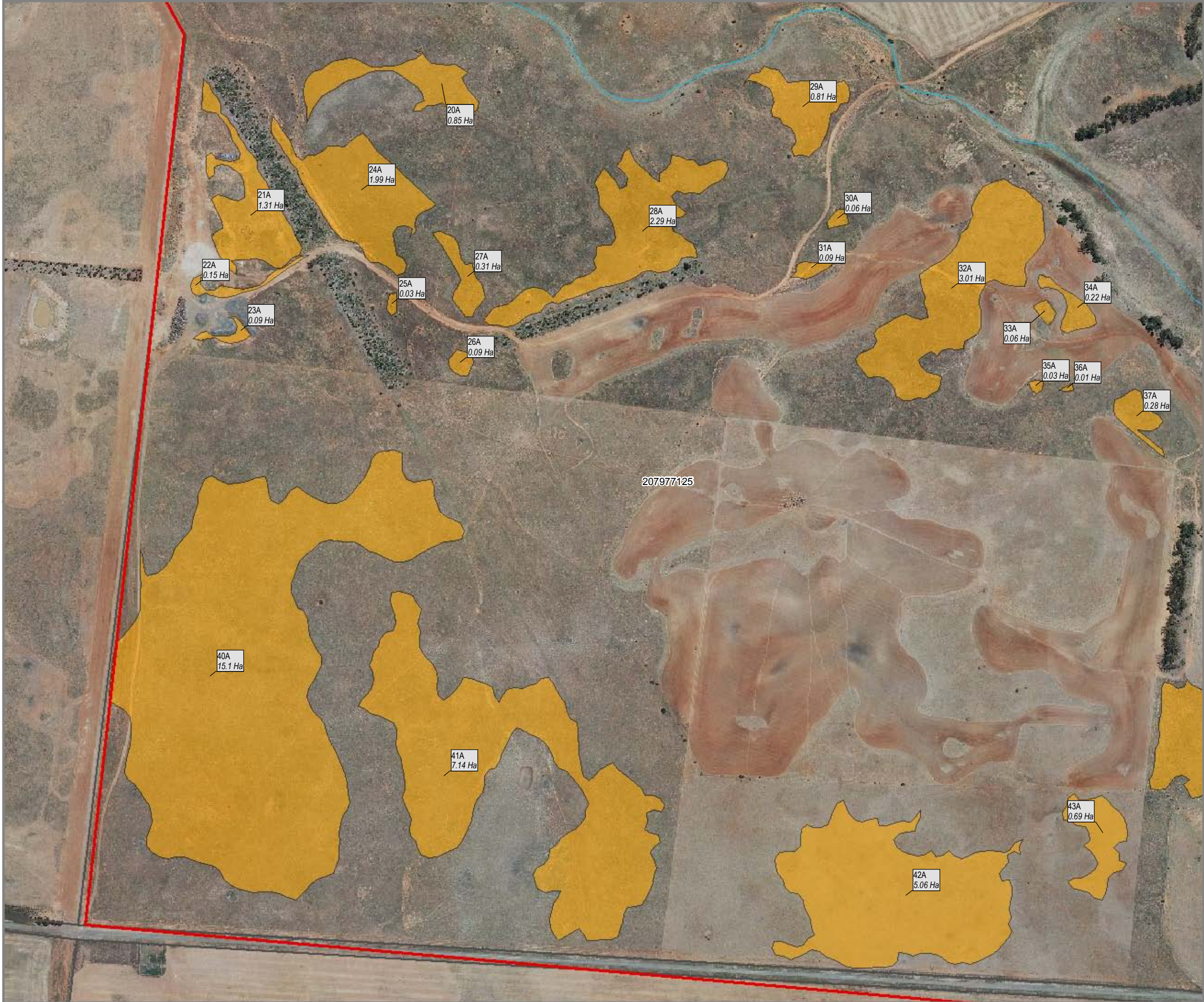
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VEGETATION QUALITY
OF HABITAT ZONES

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

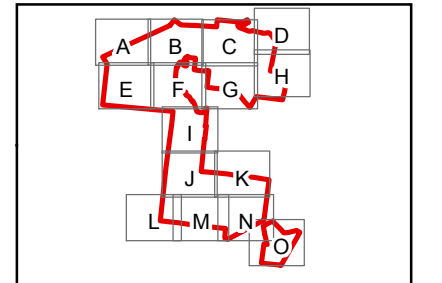
Figure

3D

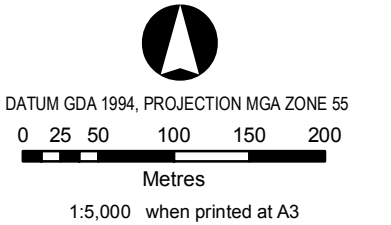


LEGEND

- Wyndham Vale Precinct Area
- Property Boundaries
- 1790392 Property ID Number
- Areas of High Conservation Significance
- Habitat Zone ID
0.68 Ha Habitat Area (Ha)
- Drive-by Assessments**
 - Areas Not Assessed (Drive-by/modelled)
 - Highly Likely Native Vegetation - Grassy
 - Possible Native Vegetation
 - No Native Vegetation
- DSE Modelled Native Vegetation**
 - Plains Grassy Woodland (EVC 55)
 - Floodplain Riparian Woodland (EVC 56)
 - Plains Grassland (EVC 132)
 - 0.68 Ha DSE Supplied EVC Areas for properties assessed by drive-by



Data Sources: Incidental records collected by AECOM (formerly ENSR Australia Pty Ltd).
Base data provided by DSE. The State of Victoria does not warrant the accuracy or completeness of information in this publication and any person using or relying upon such information does so on the basis that the State of Victoria shall bear no responsibility or liability.

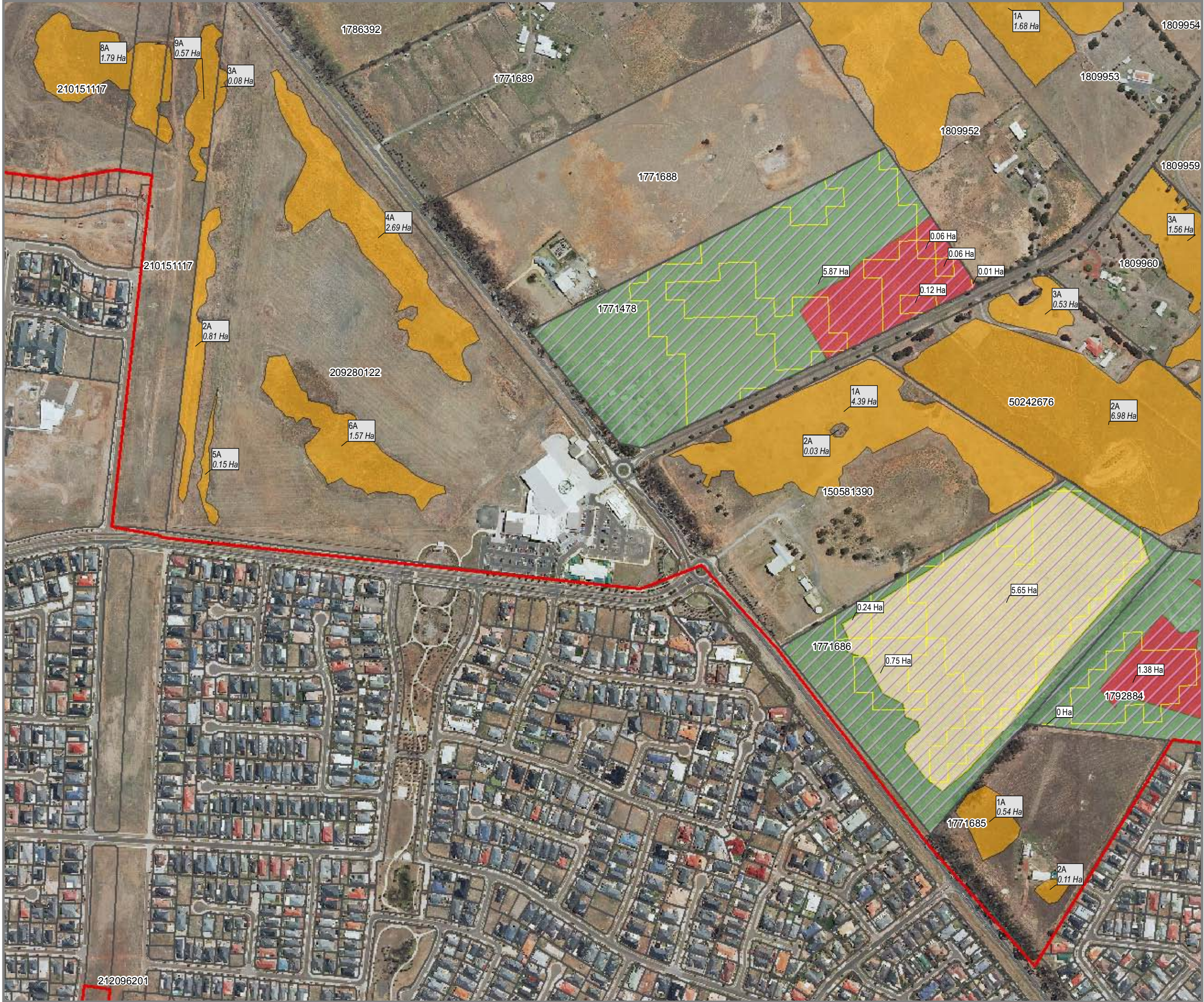


VEGETATION QUALITY
OF HABITAT ZONES

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

Figure

3E



LEGEND

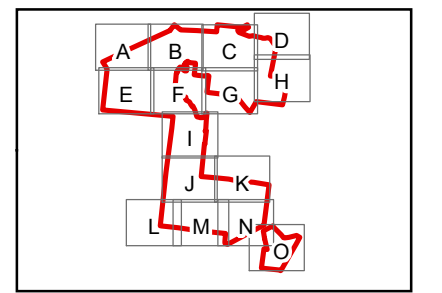
- Wyndham Vale Precinct Area
- Property Boundaries
- Property ID Number
- Areas of High Conservation Significance
- Habitat Zone ID
Habitat Area (Ha)

Drive-by Assessments

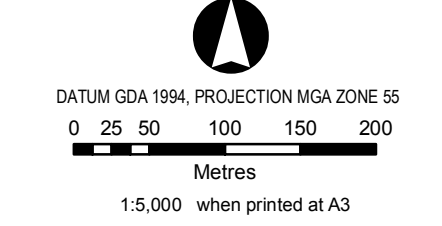
- Areas Not Assessed (Drive-by/modelled)
- Highly Likely Native Vegetation - Grassy
- Possible Native Vegetation
- No Native Vegetation

DSE Modelled Native Vegetation

- Plains Grassy Woodland (EVC 55)
- Floodplain Riparian Woodland (EVC 56)
- Plains Grassland (EVC 132)
- DSE Supplied EVC Areas for properties assessed by drive-by



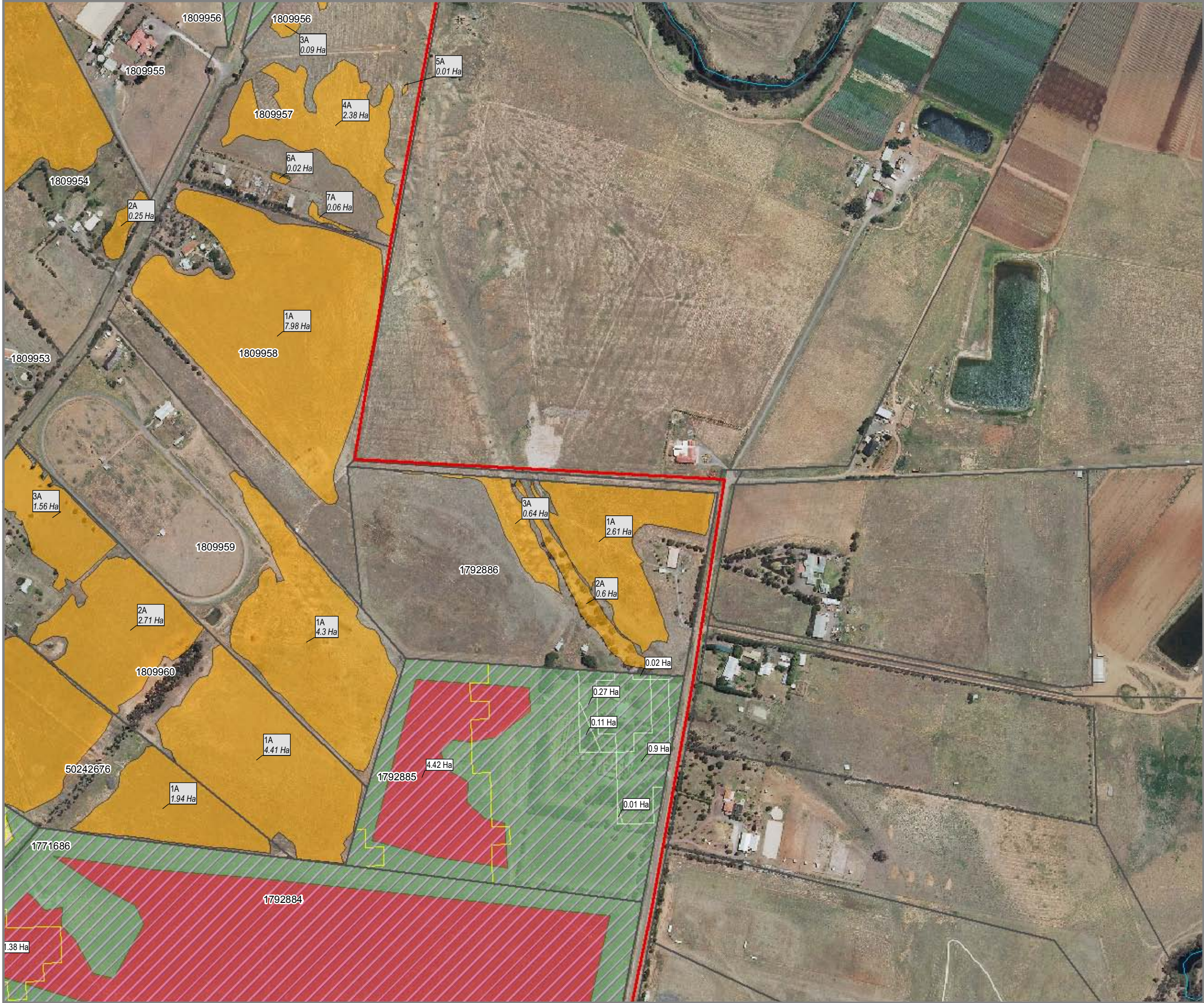
Data Sources: Incidental records collected by AECOM (formerly ENSR Australia Pty Ltd).
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VEGETATION QUALITY OF HABITAT ZONES

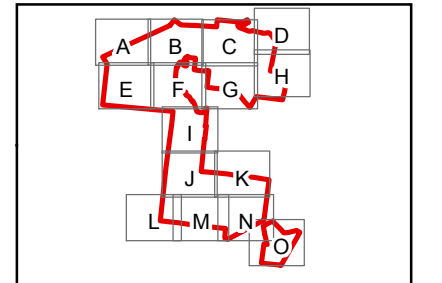
Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

Figure
3G

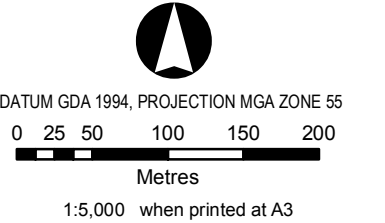


LEGEND

- Wyndham Vale Precinct Area
- Property Boundaries
- 1790392 Property ID Number
- Areas of High Conservation Significance
- 1A Habitat Zone ID
0.68 Ha Habitat Area (Ha)
- Drive-by Assessments**
 - Areas Not Assessed (Drive-by/modelled)
 - Highly Likely Native Vegetation - Grassy
 - Possible Native Vegetation
 - No Native Vegetation
- DSE Modelled Native Vegetation**
 - Plains Grassy Woodland (EVC 55)
 - Floodplain Riparian Woodland (EVC 56)
 - Plains Grassland (EVC 132)
- 0.68 Ha DSE Supplied EVC Areas for properties assessed by drive-by



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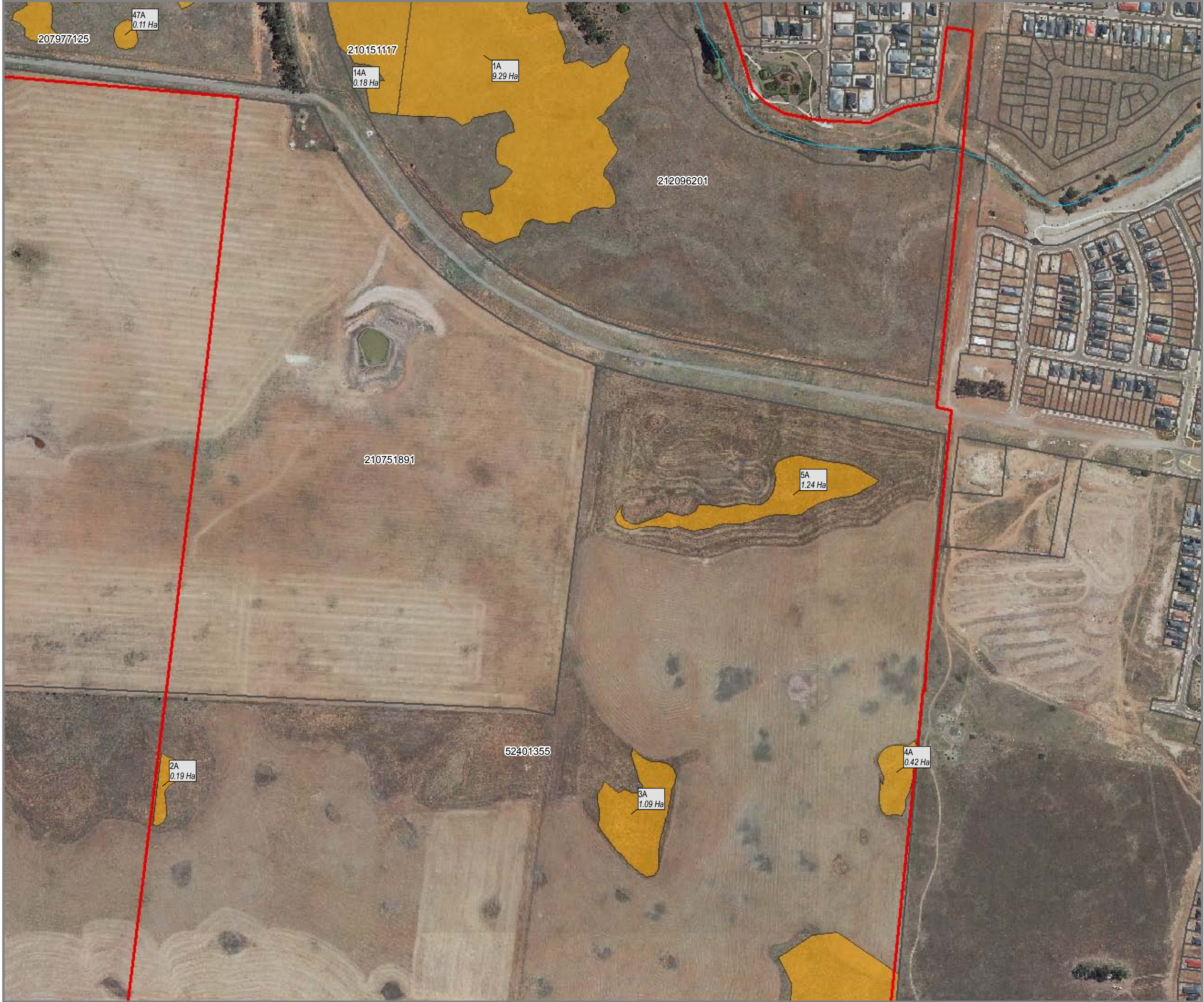


VEGETATION QUALITY
OF HABITAT ZONES

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

Figure

3H



LEGEND

Wyndham Vale Precinct Area

Property Boundaries

1790392 Property ID Number

Areas of High Conservation Significance

1A Habitat Zone ID
0.68 Ha Habitat Area (Ha)

Drive-by Assessments

Areas Not Assessed (Drive-by/modelled)

Highly Likely Native Vegetation - Grassy

Possible Native Vegetation

No Native Vegetation

DSE Modelled Native Vegetation

Plains Grassy Woodland (EVC 55)

Floodplain Riparian Woodland (EVC 56)

Plains Grassland (EVC 132)

0.68 Ha DSE Supplied EVC Areas for properties assessed by drive-by














Data Sources: Incidental records collected by AECOM (formerly ENSR Australia Pty Ltd). Base data provided by DSE. The State of Victoria does not warrant the accuracy or completeness of information in this publication and any person using or relying upon such information does so on the basis that the State of Victoria shall bear no responsibility or liability.

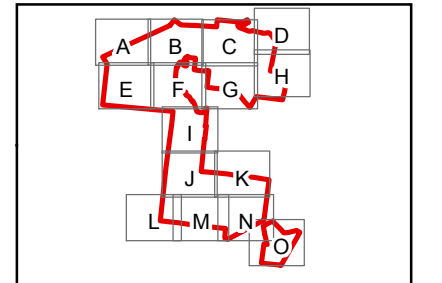
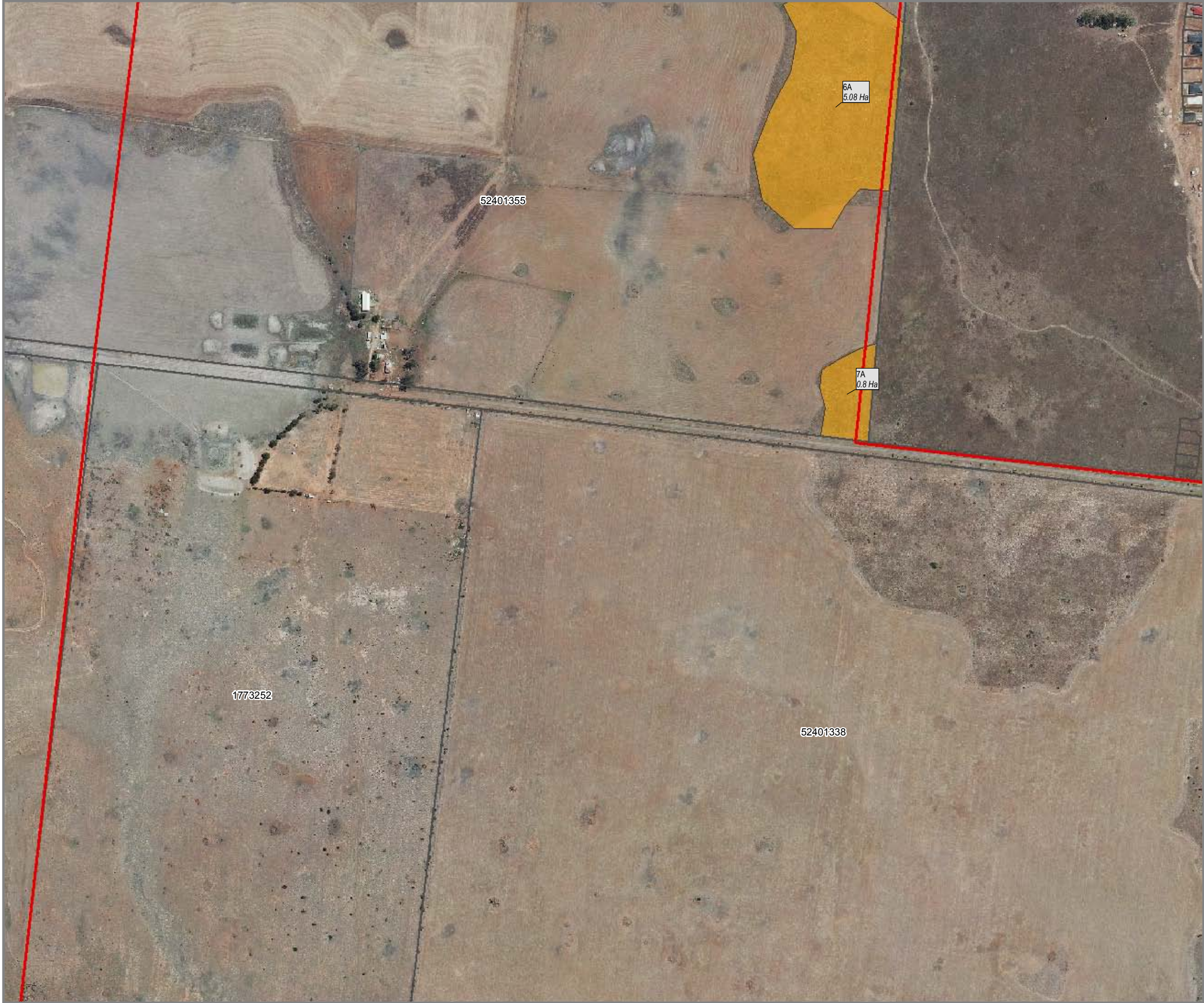
DATUM GDA 1994, PROJECTION MGA ZONE 55

Metres

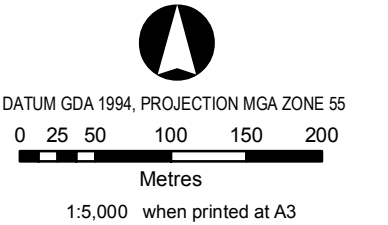
1:5,000 when printed at A3

LEGEND

-  Wyndham Vale Precinct Area
-  Property Boundaries
-  1790392 Property ID Number
-  Areas of High Conservation Significance
-  1A Habitat Zone ID
0.68 Ha Habitat Area (Ha)
- Drive-by Assessments**
-  Areas Not Assessed (Drive-by/modelled)
-  Highly Likely Native Vegetation - Grassy
-  Possible Native Vegetation
-  No Native Vegetation
- DSE Modelled Native Vegetation**
-  Plains Grassy Woodland (EVC 55)
-  Floodplain Riparian Woodland (EVC 56)
-  Plains Grassland (EVC 132)
-  0.68 Ha DSE Supplied EVC Areas for properties assessed by drive-by



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VEGETATION QUALITY
OF HABITAT ZONES

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

Figure

3J



LEGEND

- Wyndham Vale Precinct Area
- Property Boundaries
- 1790392 Property ID Number
- Areas of High Conservation Significance
- 1A Habitat Zone ID
0.68 Ha Habitat Area (Ha)

Drive-by Assessments

- Areas Not Assessed (Drive-by/modelled)
- Highly Likely Native Vegetation - Grassy
- Possible Native Vegetation
- No Native Vegetation

DSE Modelled Native Vegetation

- Plains Grassy Woodland (EVC 55)
- Floodplain Riparian Woodland (EVC 56)
- Plains Grassland (EVC 132)
- 0.68 Ha DSE Supplied EVC Areas for properties assessed by drive-by

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DATUM GDA 1994, PROJECTION MGA ZONE 55

0 25 50 100 150 200 Metres

1:5,000 when printed at A3














VEGETATION QUALITY OF HABITAT ZONES

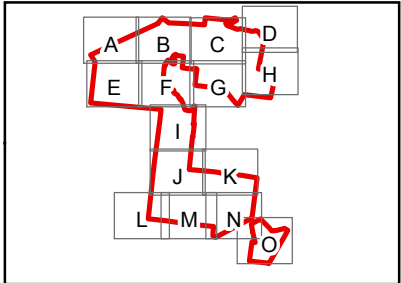
Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

Figure

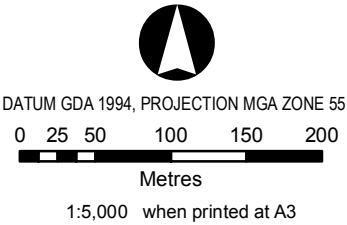
3K

LEGEND

-  Wyndham Vale Precinct Area
-  Property Boundaries
-  Property ID Number
-  Areas of High Conservation Significance
-  Habitat Zone ID
Habitat Area (Ha)
- Drive-by Assessments**
 -  Areas Not Assessed (Drive-by/modelled)
 -  Highly Likely Native Vegetation - Grassy
 -  Possible Native Vegetation
 -  No Native Vegetation
- DSE Modelled Native Vegetation**
 -  Plains Grassy Woodland (EVC 55)
 -  Floodplain Riparian Woodland (EVC 56)
 -  Plains Grassland (EVC 132)
 -  DSE Supplied EVC Areas for properties assessed by drive-by



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VEGETATION QUALITY
OF HABITAT ZONES

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

Figure

3L

LEGEND

- Wyndham Vale Precinct Area
- Property Boundaries
- 1790392

Property ID Number
- Areas of High Conservation Significance
- 1A
0.68 Ha

Habitat Zone ID
Habitat Area (Ha)
- Drive-by Assessments

Areas Not Assessed (Drive-by/modelled)

Highly Likely Native Vegetation - Grassy

Possible Native Vegetation

No Native Vegetation
- DSE Modelled Native Vegetation

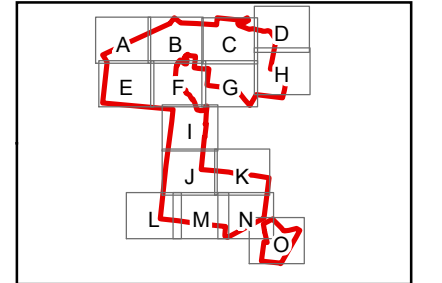
Plains Grassy Woodland (EVC 55)

Floodplain Riparian Woodland (EVC 56)

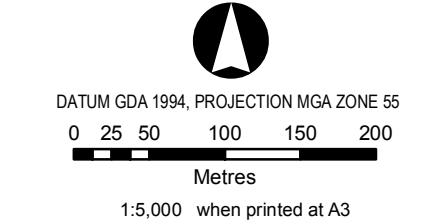
Plains Grassland (EVC 132)

0.68 Ha

DSE Supplied EVC Areas for properties assessed by drive-by



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VEGETATION QUALITY OF HABITAT ZONES

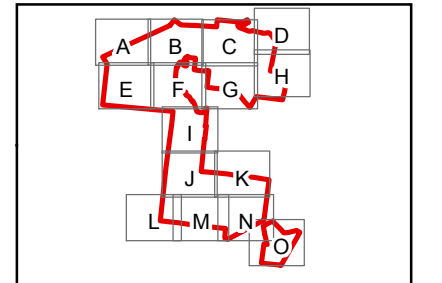
Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

Figure
3M

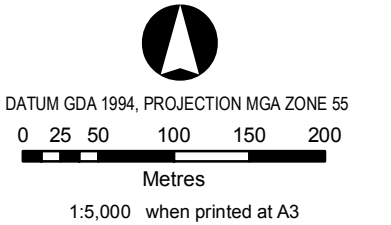


LEGEND

- Wyndham Vale Precinct Area
- Property Boundaries
- Property ID Number
- Areas of High Conservation Significance
- Habitat Zone ID
Habitat Area (Ha)
- Drive-by Assessments
 - Areas Not Assessed (Drive-by/modelled)
 - Highly Likely Native Vegetation - Grassy
 - Possible Native Vegetation
 - No Native Vegetation
- DSE Modelled Native Vegetation
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 - Floodplain Riparian Woodland (EVC 56)
 - Plains Grassland (EVC 132)
- DSE Supplied EVC Areas for properties assessed by drive-by



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VEGETATION QUALITY OF HABITAT ZONES

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

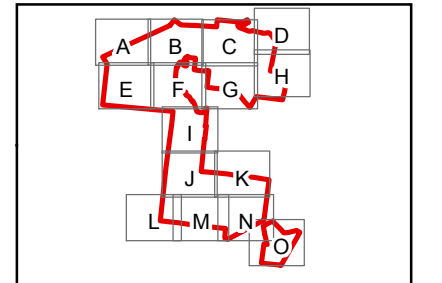
Figure

3N

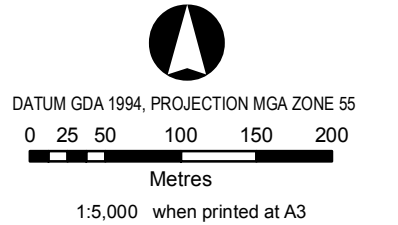


LEGEND

- Wyndham Vale Precinct Area
- Property Boundaries
- Property ID Number
- Areas of High Conservation Significance
- Habitat Zone ID
Habitat Area (Ha)
- Drive-by Assessments**
 - Areas Not Assessed (Drive-by/modelled)
 - Highly Likely Native Vegetation - Grassy
 - Possible Native Vegetation
 - No Native Vegetation
- DSE Modelled Native Vegetation**
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 - Floodplain Riparian Woodland (EVC 56)
 - Plains Grassland (EVC 132)
- DSE Supplied EVC Areas for properties assessed by drive-by



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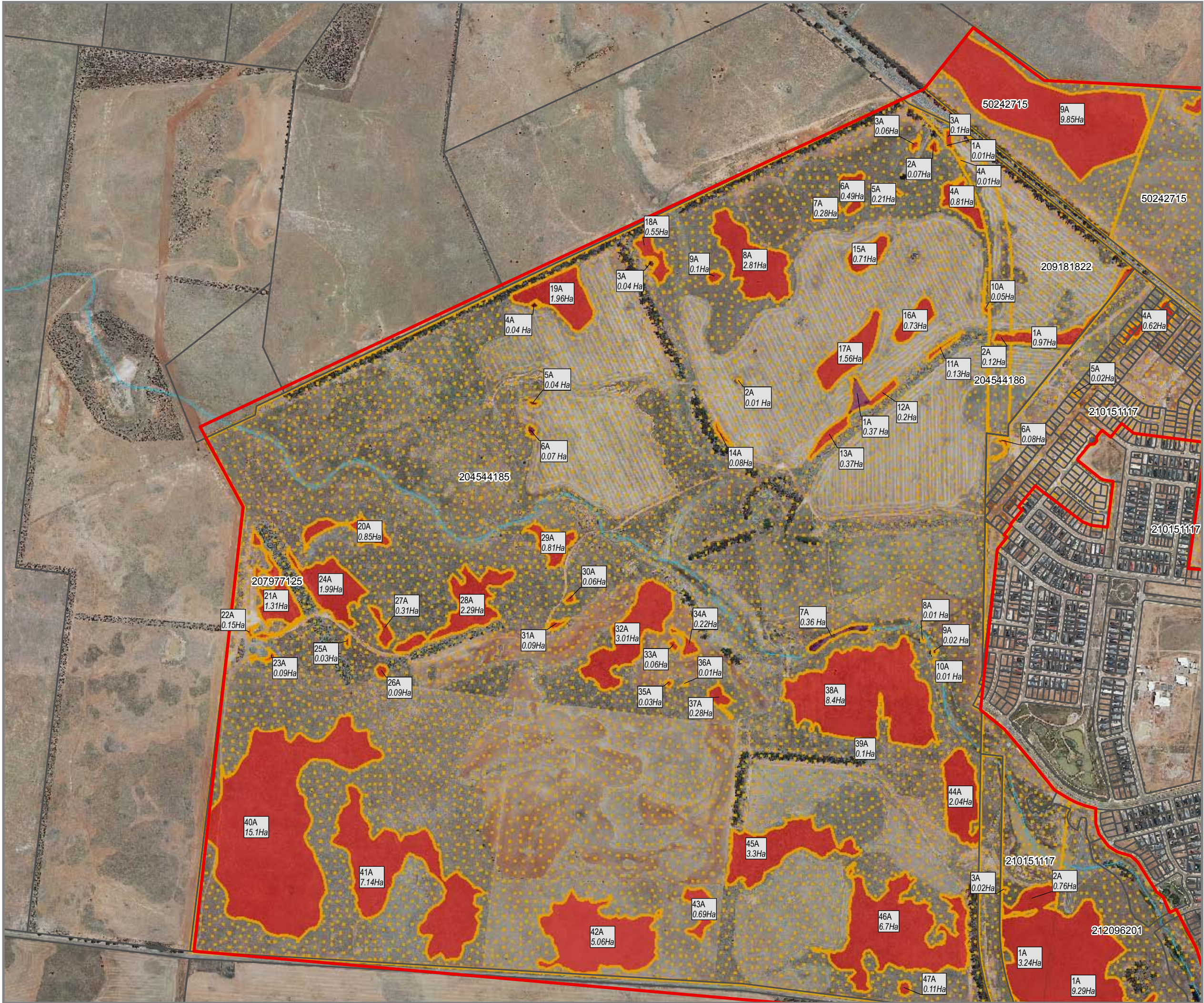


VEGETATION QUALITY
OF HABITAT ZONES

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

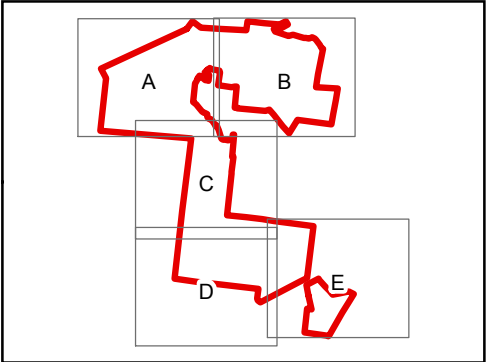
Figure

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LEGEND

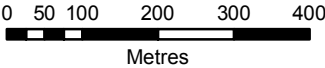
- Wyndham Vale Precinct Area
- Property Boundaries
- Property ID Number
- Areas Not Assessed (Drive-by/modelled)
- High Conservation Significance Remnant Patches
- Scattered Tree Polygons
- Degraded Treeless Vegetation
- Habitat Zone ID
Habitat Area (Ha)



Data Sources: Incidental records collected by AECOM (formerly ENSR Australia Pty. Ltd).
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DATUM GDA 1994, PROJECTION MGA ZONE 55



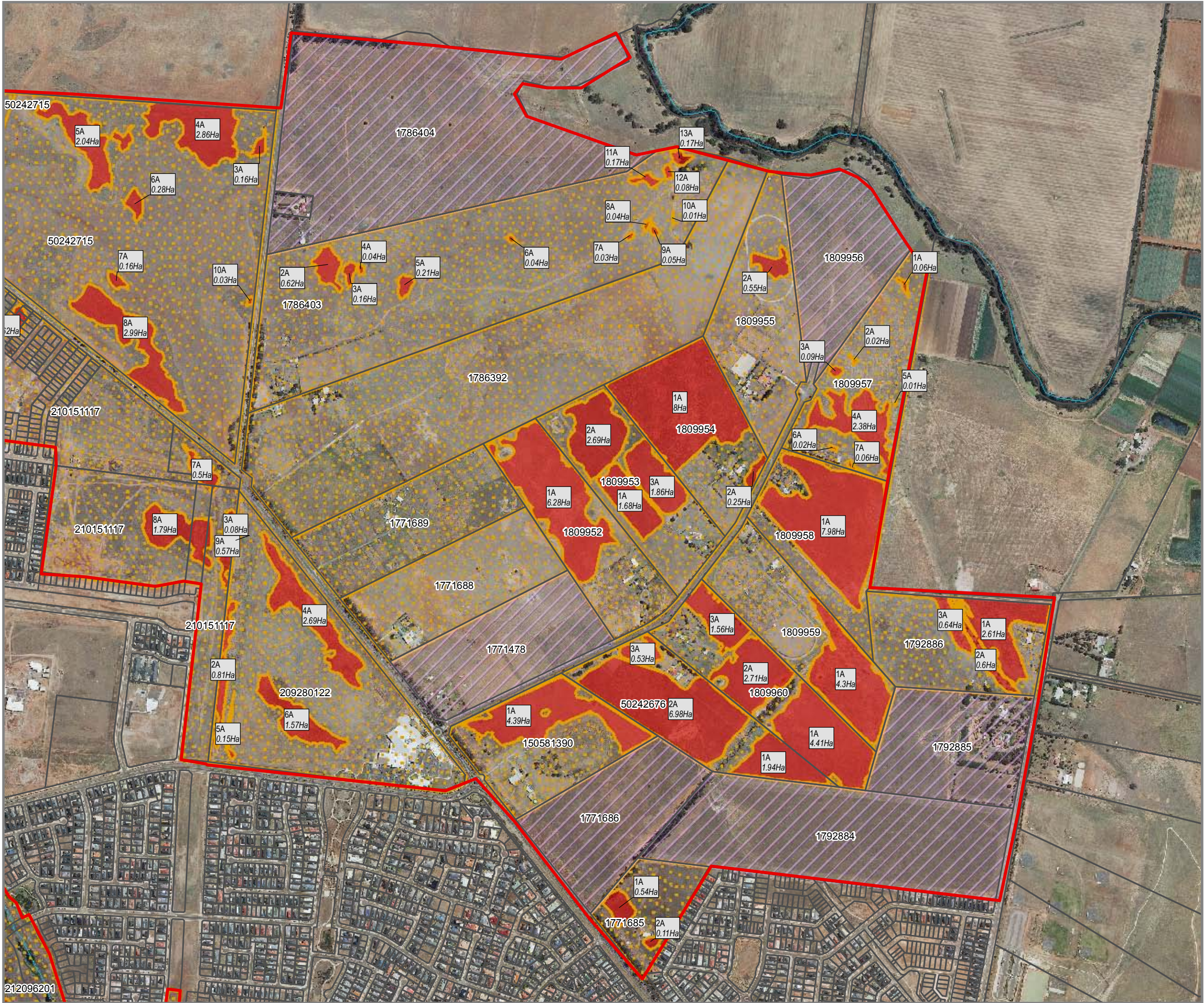
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CONSERVATION SIGNIFICANCE OF HABITAT ZONES

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

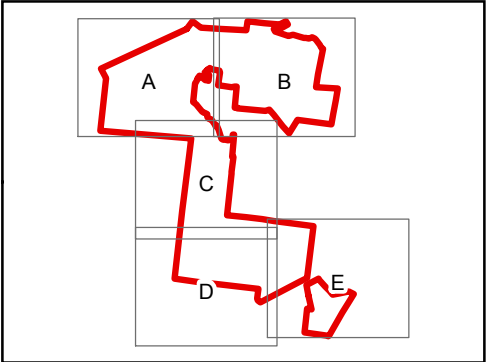
Figure

4A



LEGEND

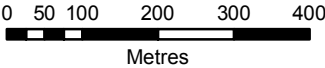
- Wyndham Vale Precinct Area
- Property Boundaries
- Property ID Number
- Areas Not Assessed (Drive-by/modelled)
- High Conservation Significance Remnant Patches
- Scattered Tree Polygons
- Degraded Treeless Vegetation
- Habitat Zone ID
Habitat Area (Ha)



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DATUM GDA 1994, PROJECTION MGA ZONE 55



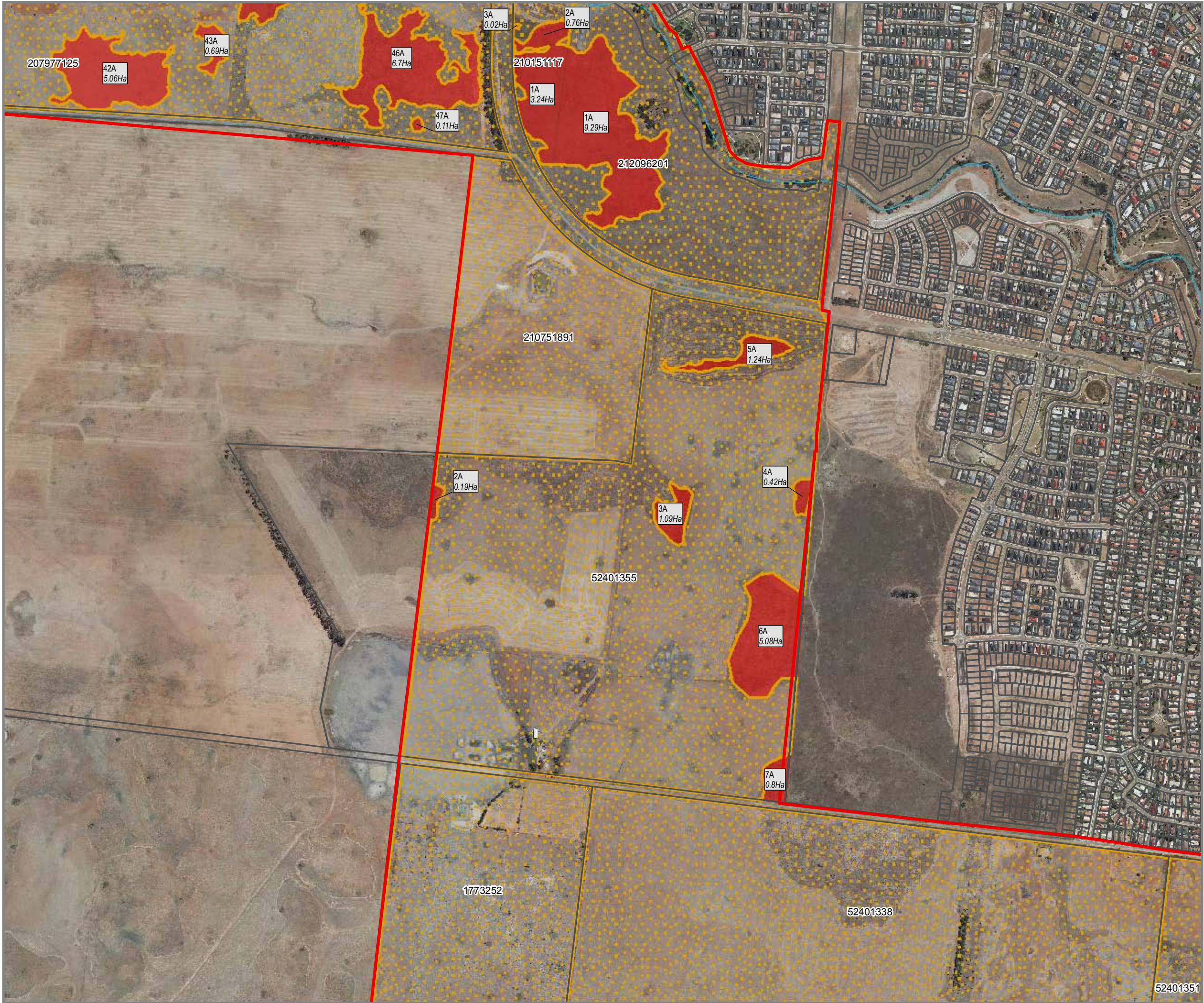
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CONSERVATION SIGNIFICANCE OF HABITAT ZONES

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

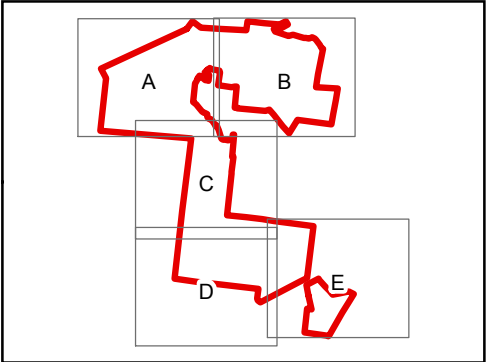
Figure

4B



LEGEND

- Wyndham Vale Precinct Area
- Property Boundaries
- 1790392 Property ID Number
- Areas Not Assessed (Drive-by/modelled)
- High Conservation Significance Remnant Patches
- Scattered Tree Polygons
- Degraded Treeless Vegetation
- 1A Habitat Zone ID
0.43 Ha Habitat Area (Ha)



Data Sources: Incidental records collected by AECOM (formerly ENSR Australia Pty. Ltd). Base data provided by DSE. The State of Victoria does not warrant the accuracy or completeness of information in this publication and any person using or relying upon such information does so on the basis that the State of Victoria shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information.



DATUM GDA 1994, PROJECTION MGA ZONE 55

0 50 100 200 300 400
Metres

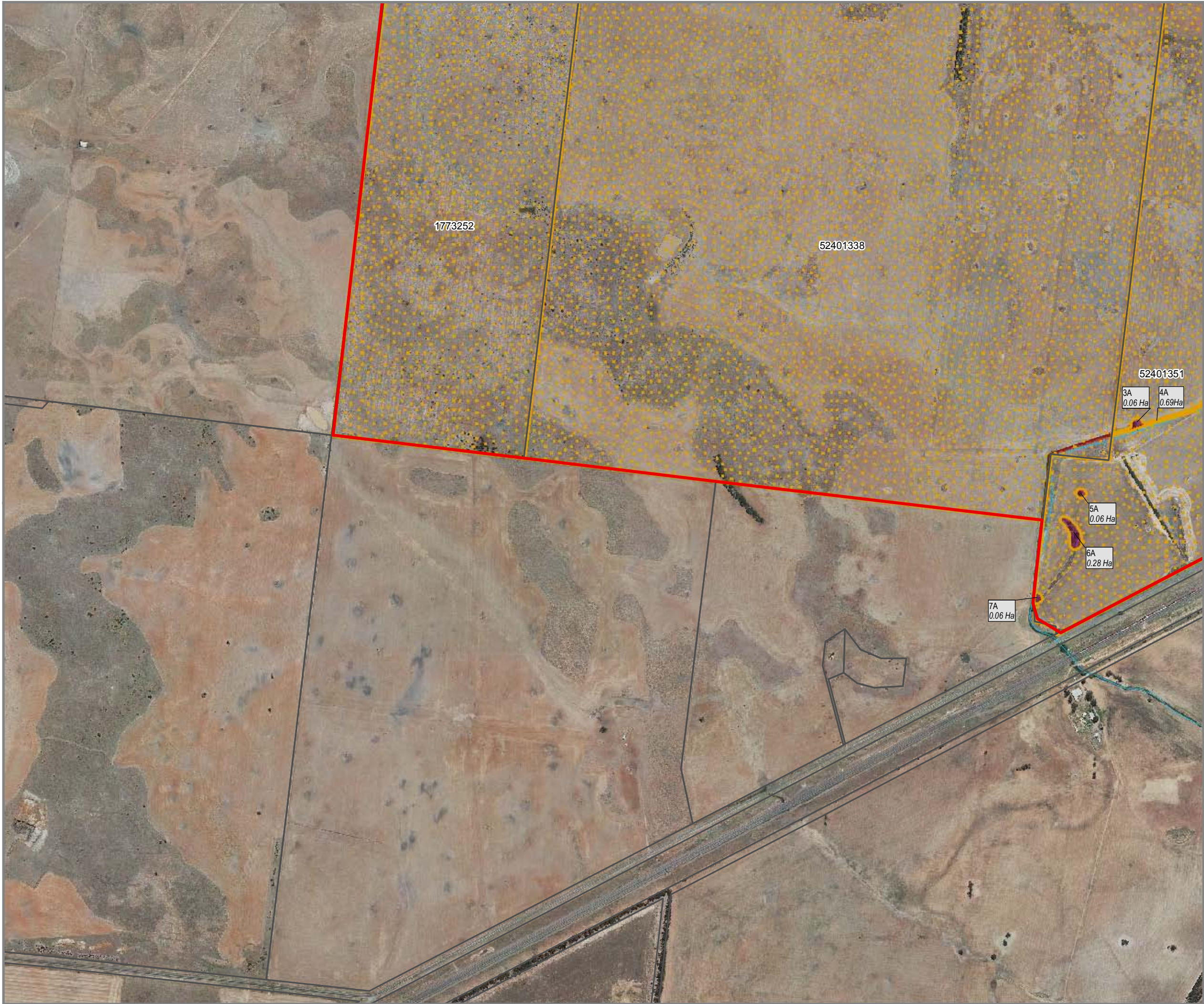
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CONSERVATION SIGNIFICANCE OF HABITAT ZONES

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

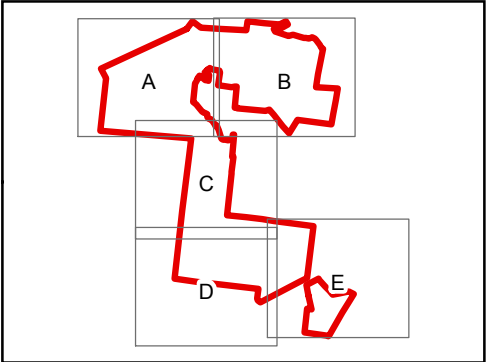
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4C

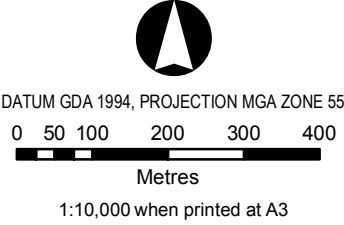


LEGEND

- Wyndham Vale Precinct Area
- Property Boundaries
- Property ID Number
- Areas Not Assessed (Drive-by/modelled)
- High Conservation Significance Remnant Patches
- Scattered Tree Polygons
- Degraded Treeless Vegetation
- Habitat Zone ID
Habitat Area (Ha)



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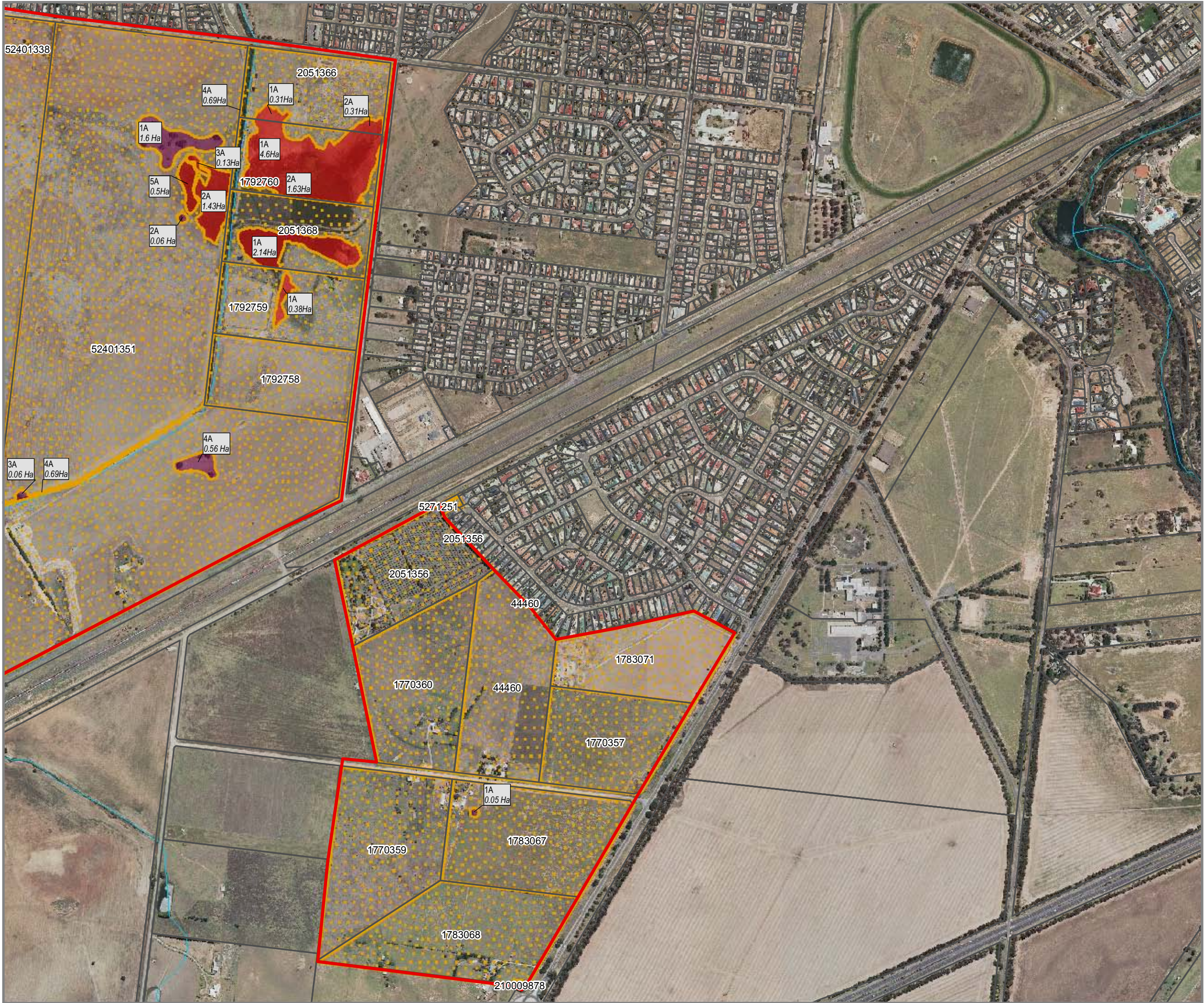


CONSERVATION SIGNIFICANCE OF HABITAT ZONES

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

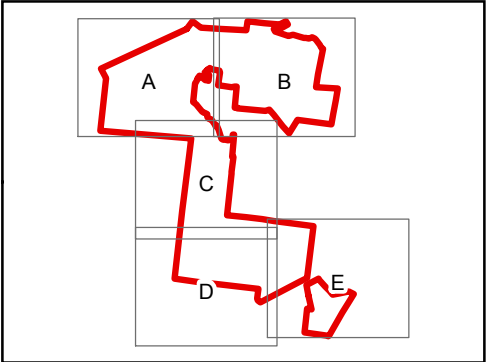
Figure

4D



LEGEND

- Wyndham Vale Precinct Area
- Property Boundaries
- Property ID Number
- Areas Not Assessed (Drive-by/modelled)
- High Conservation Significance Remnant Patches
- Scattered Tree Polygons
- Degraded Treeless Vegetation
- Habitat Zone ID
Habitat Area (Ha)



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DATUM GDA 1994, PROJECTION MGA ZONE 55

0 50 100 200 300 400
Metres

1:10,000 when printed at A3

CONSERVATION SIGNIFICANCE
OF HABITAT ZONES

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

Figure

4E



LEGEND

- Wyndham Vale Precinct Area
- 1790392 Property ID Number
- Property Boundaries
- Areas Not Assessed (Drive-by/modelled)
- Assessed by field survey

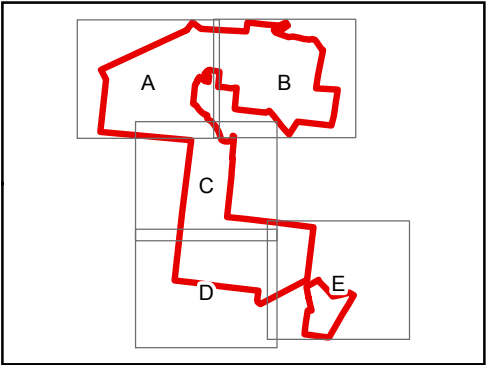
Database Records

- Nationally Significant^
- State Significant*

Incidental Records for Current Assessment

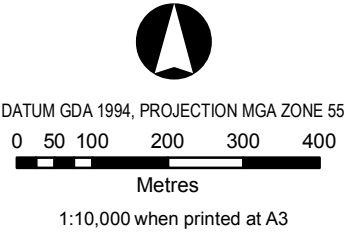
- Nationally Significant^
- State Significant*

Small Scurf Pea 20/05/2006	* Species Common Name Date of Record
Button Winklewort 15/12/1986	^ Nationally significant species Date of Record



* FFG listed and/or DSE VROT Advisory list

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NATIONAL AND STATE SIGNIFICANT FLORA SPECIES

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

Figure

5A

LEGEND

- Wyndham Vale Precinct Area
- 1790392 Property ID Number
- Property Boundaries
- Areas Not Assessed (Drive-by/modelled)
- Assessed by field survey

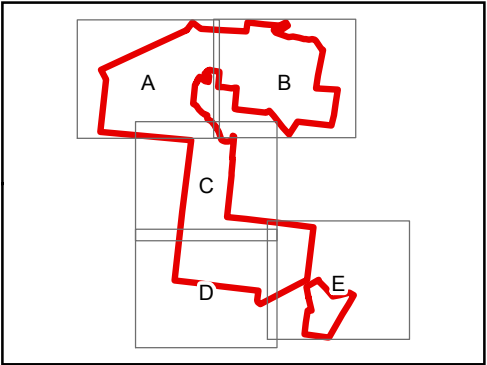
Database Records

- Nationally Significant^
- State Significant*

Incidental Records for Current Assessment

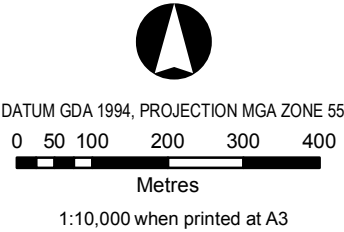
- Nationally Significant^
- State Significant*

Small Scurf Pea 20/05/2006	* Species Common Name Date of Record
Button Winklewort 15/12/1986	^ Nationally significant species Date of Record



* FFG listed and/or DSE VROT Advisory list

Data Sources: Incidental records collected by AECOM (formerly ENSR Australia Pty Ltd).
Base data provided by DSE. The State of Victoria does not warrant the accuracy or completeness of information in this publication and any person using or relying upon such information does so on the basis that the State of Victoria shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information.



NATIONAL AND STATE SIGNIFICANT FLORA SPECIES

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

Figure

5C

LEGEND

- Wyndham Vale Precinct Area
- 1790392

Property ID Number
- Property Boundaries
- Areas Not Assessed (Drive-by/modelled)
- Assessed by field survey

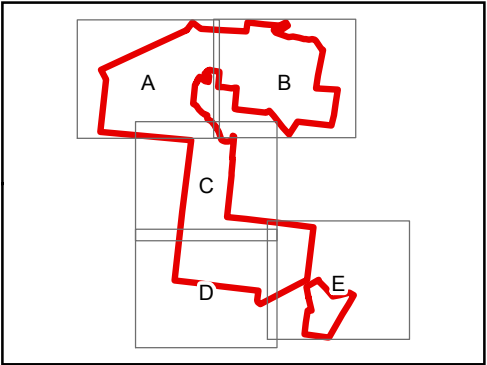
Database Records

- Nationally Significant^
- State Significant*

Incidental Records for Current Assessment

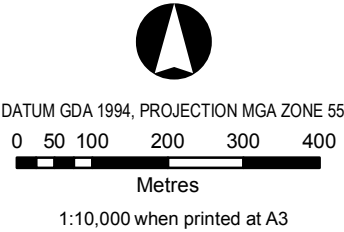
- Nationally Significant^
- State Significant*

Small Scurf Pea 20/05/2006	* Species Common Name Date of Record
Button Winklewort 15/12/1986	^ Nationally significant species Date of Record



* FFG listed and/or DSE VROT Advisory list

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NATIONAL AND STATE SIGNIFICANT FLORA SPECIES

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

Figure

5D



LEGEND

- Wyndham Vale Precinct Area
- 1790392 Property ID Number
- Property Boundaries
- Areas Not Assessed (Drive-by/modelled)
- Assessed by field survey

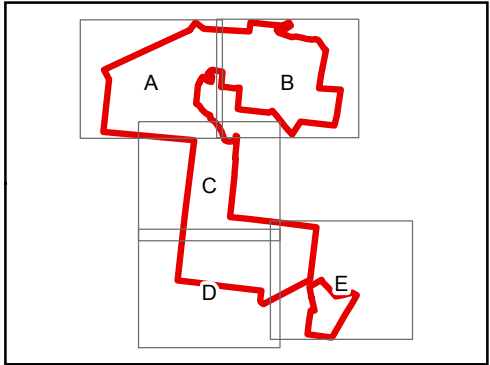
Database Records

- Nationally Significant^
- State Significant*

Incidental Records for Current Assessment

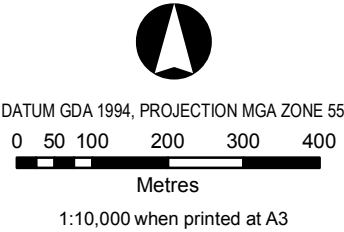
- Nationally Significant^
- State Significant*

Small Scurf Pea 20/05/2006	* Species Common Name Date of Record
Button Winklewort 15/12/1986	^ Nationally significant species Date of Record



* FFG listed and/or DSE VROT Advisory list

Data Sources: Incidental records collected by AECOM (formerly ENSR Australia Pty Ltd).
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NATIONAL AND STATE SIGNIFICANT FLORA SPECIES

Growth Area Authority
Vegetation
Assessment Report
Wyndham Vale, VIC

Figure

5E

Appendix A

Listed Flora Species Recorded Within 5 km of Wyndham Vale Precinct Area

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Appendix A: Listed Flora Species Recorded Within 5 km of the Wyndham Vale Precinct Area

Botanical Name	Common Name	EPBC Act	VROT	FFG Act	VFSD	PMST	Current survey	Likelihood of Occurrence
<i>Pimelea spinescens</i> subsp. <i>spinescens</i>	Spiny Rice-flower	Critically Endangered	Vulnerable		✓	✓		Highly likely as suitable habitat is present within the area. Recorded within the immediate vicinity
<i>Cullen parvum</i>	Small Scurf-pea		Endangered	Listed	✓		✓	Present at properties 207977125 & 1792886
<i>Prasophyllum suaveolens</i>	Fragrant Leek-orchid	Endangered	Endangered	Listed	✓			Unlikely. Absence of suitable habitat.
<i>Rutidosis leptorhynchoides</i>	Button Wrinklewort	Endangered	Endangered	Listed	✓	✓		Highly likely as suitable habitat is present within the area. Recorded within the immediate vicinity.
<i>Glycine latrobeana</i>	Clover Glycine	Vulnerable	Vulnerable	Listed	✓	✓		Possible. Suitable habitat present within the area
<i>Senecio macrocarpus</i>	Large-headed Fireweed	Vulnerable	Endangered	Listed	✓	✓		Highly likely as suitable habitat is present within the area. Recorded within the immediate vicinity
<i>Lachnagrostis filiformis</i> var. 2	Wetland Blown-grass		Poorly known		✓			Unlikely. Absence of suitable habitat.
<i>Pimelea curviflora</i> var. aff. <i>subglabrata</i>	Curved Rice-flower		Poorly known		✓			Unlikely. Absence of suitable habitat.
<i>Marsilea mutica</i>	Smooth Nardoo		Poorly known		✓			Unlikely. Absence of suitable habitat.

Botanical Name	Common Name	EPBC Act	VROT	FFG Act	VFSD	PMST	Current survey	Likelihood of Occurrence
<i>Alternanthera</i> sp. 1 (Plains)	Plains Joyweed		Poorly known		✓			Possible. Suitable habitat present within the area
<i>Lotus australis</i> var. <i>australis</i>	Austral Trefoil		Poorly known		✓			Possible. Suitable habitat present within the area
<i>Tripogon loliiformis</i>	Rye Beetle-grass		Rare		✓			Possible. Suitable habitat present within the area
<i>Eragrostis trachycarpa</i>	Rough-grain Love-grass		Rare	Delisted	✓			Possible. Suitable habitat present within the area
<i>Melaleuca armillaris</i> subsp. <i>armillaris</i>	Giant Honey-myrtle		Rare		✓			Unlikely. Absence of suitable habitat
<i>Atriplex paludosa</i> subsp. <i>paludosa</i>	Marsh Saltbush		Rare		✓			Unlikely. Absence of suitable habitat
<i>Swainsona behriana</i>	Southern Swainson-pea		Rare		✓			Possible. Suitable habitat present within the area
<i>Eucalyptus leucoxylon</i> subsp. <i>connata</i>	Melbourne Yellow-gum		Vulnerable	Extinct	✓			Highly Unlikely
<i>Comesperma polygaloides</i>	Small Milkwort		Vulnerable	Listed	✓			Possible. Suitable habitat present within the area
<i>Allocasuarina luehmannii</i>	Buloke			Listed	✓			Possible. Suitable habitat present within the area

Botanical Name	Common Name	EPBC Act	VROT	FFG Act	VFSD	PMST	Current survey	Likelihood of Occurrence
<i>Eucalyptus camaldulensis</i>	River Red-gum			Nominated	✓			Present on a number of sites
<i>Carex tasmanica</i>	Curly Sedge	Vulnerable	Vulnerable	Listed		✓		Unlikely. Absence of suitable habitat
<i>Prasophyllum frenchii</i>	Maroon Leek-orchid	Endangered	Endangered	Listed		✓		Unlikely. Absence of suitable habitat
Natural Temperate Grassland of the Victorian Volcanic Plain		Critically Endangered				✓		Likely. Suitable habitat present within the area

EPBC - Environment Protection and Biodiversity Conservation Act 1999; VROT - DSE Advisory List of Victorian Rare and Threatened Species; FFG - Flora and Fauna Guarantee Act 1988; VFSD - Victorian Flora Site Database; PMST - Protected Matters Search Tool; Current survey - AECOM, 2009.

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Appendix B

Result of Habitat Hectare Assessment for the Wyndham Vale Precinct Area

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Appendix B: Results of Habitat Hectare Assessment for the Wyndham Vale Precinct Area

Property ID	Habitat Zone.	Veg Category	Total Area (ha)	EVC No.	EVC Conservation Status	Landscape Score (0–25)	Site Condition Score (0–75)	Habitat Score (0 – 1)	Habitat Hectares	Conservation Significance	Offset Required (Habitat Hectares)	Figure No.
44460	1A	DT	11.85			0	0	0	0.00		0.00	3 O
1770357	1A	DT	9.13			0	0	0	0.00		0.00	3 O
1770359	1A	DT	13.03			0	0	0	0.00		0.00	3 O
1770360	1A	DT	11.92			0	0	0	0.00		0.00	3 O
1771685	1A	RP	0.54	VVP_0132_61	Endangered	1	20	0.21	0.11	High	0.17	3 G
1771685	2A	RP	0.11	VVP_0132_61	Endangered	1	20	0.21	0.02	High	0.03	3 G
1771685	3A	DT	5.00			0	0	0	0.00		0.00	3 G
1771688	1A	DT	12.15			0	0	0	0.00		0.00	3 G
1771689	1A	DT	12.20			0	0	0	0.00		0.00	3 G
1773252	1A	DT	86.74			0	0	0	0.00		0.00	3 L
1783067	1A	DT	12.62			0	0	0	0.00		0.00	3 O
1783068	1A	DT	12.73			0	0	0	0.00		0.00	3 O
1783071	1A	DT	8.94			0	0	0	0.00		0.00	3 O
1786392	1A	DT	44.22			0	0	0	0.00		0.00	3 C
1786403	7A	RP	0.03	VVP_0132_63	Endangered	4	12	0.16	0.00	High	0.00	3 C
1786403	8A	RP	0.04	VVP_0132_63	Endangered	4	12	0.16	0.01	High	0.02	3 C
1786403	9A	RP	0.05	VVP_0132_	Endangered	4	16	0.20	0.01	High	0.02	3 C

Property ID	Habitat Zone.	Veg Category	Total Area (ha)	EVC No.	EVC Conservation Status	Landscape Score (0–25)	Site Condition Score (0–75)	Habitat Score (0 – 1)	Habitat Hectares	Conservation Significance	Offset Required (Habitat Hectares)	Figure No.
				63								
1786403	10A	RP	0.01	VVP_0132_63	Endangered	4	12	0.16	0.00	High	0.00	3 C
1786403	11A	RP	0.17	VVP_0132_63	Endangered	4	12	0.16	0.03	High	0.05	3 C
1786403	12A	RP	0.08	VVP_0132_63	Endangered	4	16	0.20	0.02	High	0.03	3 C
1786403	6A	RP	0.04	VVP_0132_63	Endangered	5	21	0.26	0.01	High	0.02	3 C
1786403	2A	RP	0.62	VVP_0132_61	Endangered	3	16	0.19	0.12	High	0.18	3 C
1786403	3A	RP	0.16	VVP_0132_61	Endangered	4	16	0.20	0.03	High	0.05	3 C
1786403	4A	RP	0.04	VVP_0132_61	Endangered	4	14	0.18	0.01	High	0.02	3 C
1786403	5A	RP	0.21	VVP_0132_61	Endangered	4	16	0.20	0.04	High	0.06	3 C
1786403	1A	DT	41.60			0	0	0	0.00		0.00	3 C
1786403	13A	RP	0.17	VVP_0055_61	Endangered	4	16	0.20	0.03	High	0.05	3 C
1792758	1A	DT	8.08			0	0	0	0.00		0.00	3 N
1792759	1A	RP	0.38	VVP_0132_61	Endangered	1	14	0.15	0.06	High	0.09	3 N
1792759	2A	DT	7.68			0	0	0	0.00		0.00	3 N

Property ID	Habitat Zone.	Veg Category	Total Area (ha)	EVC No.	EVC Conservation Status	Landscape Score (0–25)	Site Condition Score (0–75)	Habitat Score (0 – 1)	Habitat Hectares	Conservation Significance	Offset Required (Habitat Hectares)	Figure No.
1792760	1A	RP	4.60	VVP_0132_61	Endangered	4	20	0.24	1.10	High	1.65	3 K
1792760	2A	RP	1.63	VVP_0125	Endangered	4	11	0.15	0.24	High	0.36	3 K
1792760	3A	DT	0.64			0	0	0	0.00		0.00	3 K
1792760	4A	DT	0.32			0	0	0	0.00		0.00	3 K
1792760	5A	DT	0.85			0	0	0	0.00		0.00	3 K
1792886	1A	RP	2.61	VVP_0132_61	Endangered	3	28	0.31	0.81	High	1.22	3 H
1792886	2A	RP	0.60	VVP_0068	Endangered	1	27	0.28	0.17	High	0.26	3 H
1792886	3A	RP	0.64	VVP_0132_61	Endangered	2	20	0.22	0.14	High	0.21	3 H
1792886	4A	DT	8.29			0	0	0	0.00		0.00	3 H
1809952	1A	RP	6.28	VVP_0132_61	Endangered	4	15	0.19	1.19	High	1.79	3 C
1809952	2A	DT	5.87			0	0	0	0.00		0.00	3 C
1809953	1A	RP	1.68	VVP_0132_61	Endangered	1	19	0.20	0.34	High	0.51	3 C
1809953	2A	RP	2.69	VVP_0132_61	Endangered	3	16	0.19	0.51	High	0.77	3 C
1809953	3A	RP	1.86	VVP_0132_61	Endangered	1	19	0.20	0.37	High	0.56	3 C
1809953	4A	DT	5.92			0	0	0	0.00		0.00	3 C
1809954	1A	RP	8.00	VVP_0132_	Endangered	7	32	0.39	3.12	High	4.68	3 C

Property ID	Habitat Zone.	Veg Category	Total Area (ha)	EVC No.	EVC Conservation Status	Landscape Score (0–25)	Site Condition Score (0–75)	Habitat Score (0 – 1)	Habitat Hectares	Conservation Significance	Offset Required (Habitat Hectares)	Figure No.
				62								
1809954	2A	RP	0.25	VVP_0132_61	Endangered	4	19	0.23	0.06	High	0.09	3 C
1809954	3A	DT	3.90			0	0	0	0.00		0.00	3 C
1809955	2A	RP	0.55	VVP_0132_61	Endangered	1	14	0.15	0.08	High	0.12	3 H
1809955	1A	DT	11.94			0	0	0	0.00		0.00	3 H
1809957	6A	RP	0.02	VVP_0132_61	Endangered	5	12	0.17	0.00	High	0.00	3 D
1809957	7A	RP	0.06	VVP_0132_61	Endangered	2	14	0.16	0.01	High	0.02	3 D
1809957	5A	RP	0.01	VVP_0132_61	Endangered	5	20	0.25	0.00	High	0.00	3 D
1809957	1A	RP	0.06	VVP_0132_61	Endangered	5	19	0.24	0.01	High	0.02	3 D
1809957	2A	RP	0.02	VVP_0132_61	Endangered	5	16	0.21	0.00	High	0.00	3 D
1809957	3A	RP	0.09	VVP_0132_61	Endangered	5	16	0.21	0.02	High	0.03	3 D
1809957	4A	RP	2.38	VVP_0132_61	Endangered	7	16	0.23	0.55	High	0.83	3 D
1809957	8A	DT	9.76			0	0	0	0.00		0.00	3 D
1809958	1A	RP	7.98	VVP_0132_61	Endangered	5	20	0.25	2.00	High	3.00	3 H

Property ID	Habitat Zone.	Veg Category	Total Area (ha)	EVC No.	EVC Conservation Status	Landscape Score (0–25)	Site Condition Score (0–75)	Habitat Score (0 – 1)	Habitat Hectares	Conservation Significance	Offset Required (Habitat Hectares)	Figure No.
1809958	2A	DT	4.17			0	0	0	0.00		0.00	3 H
1809959	1A	RP	4.30	VVP_0132_61	Endangered	3	20	0.23	0.99	High	1.49	3 H
1809959	2A	DT	7.83			0	0	0	0.00		0.00	3 H
1809960	1A	RP	4.41	VVP_0132_63	Endangered	4	17	0.21	0.93	High	1.40	3 H
1809960	2A	RP	2.71	VVP_0132_63	Endangered	4	20	0.24	0.65	High	0.98	3 H
1809960	3A	RP	1.56	VVP_0132_63	Endangered	4	20	0.24	0.37	High	0.56	3 H
1809960	4A	DT	3.36			0	0	0	0.00		0.00	3 H
1809960	5A	DT	0.15			0	0	0	0.00		0.00	3 H
2051356	1A	DT	9.00			0	0	0	0.00		0.00	3 O
2051356	1A	DT	0.13			0	0	0	0.00		0.00	3 O
2051366	3A	DT	7.45			0	0	0	0.00		0.00	3 O
2051366	2A	RP	0.31	VVP_0132_61	Endangered	4	20	0.24	0.07	High	0.11	3 O
2051366	1A	RP	0.31	VVP_0132_61	Endangered	4	20	0.24	0.07	High	0.11	3 O
2051368	1A	RP	2.14	VVP_0125	Endangered	2	15	0.17	0.36	High	0.54	3 N
2051368	2A	DT	5.91			0	0	0	0.00		0.00	3 N
5271251	1A	DT	0.04			0	0	0	0.00		0.00	3 O

Property ID	Habitat Zone.	Veg Category	Total Area (ha)	EVC No.	EVC Conservation Status	Landscape Score (0–25)	Site Condition Score (0–75)	Habitat Score (0 – 1)	Habitat Hectares	Conservation Significance	Offset Required (Habitat Hectares)	Figure No.
50242676	2A	RP	6.98	VVP_0132_61	Endangered	5	21	0.26	1.81	High	2.72	3 H
50242676	1A	RP	1.94	VVP_0132_61	Endangered	2	20	0.22	0.43	High	0.65	3 H
50242676	3A	RP	0.53	VVP_0132_61	Endangered	1	15	0.16	0.08	High	0.12	3 H
50242676	4A	DT	2.68			0	0	0	0.00		0.00	3 H
50242715	10A	RP	0.03	VVP_0132_61	Endangered	1	16	0.17	0.01	High	0.02	3 B
50242715	3A	RP	0.16	VVP_0132_61	Endangered	1	16	0.17	0.03	High	0.05	3 B
50242715	4A	RP	2.86	VVP_0132_61	Endangered	2	16	0.18	0.51	High	0.77	3 B
50242715	5A	RP	2.04	VVP_0132_61	Endangered	2	20	0.22	0.45	High	0.68	3 B
50242715	6A	RP	0.28	VVP_0132_61	Endangered	1	19	0.20	0.06	High	0.09	3 B
50242715	7A	RP	0.16	VVP_0132_61	Endangered	1	19	0.20	0.03	High	0.05	3 B
50242715	8A	RP	2.99	VVP_0132_61	Endangered	2	20	0.22	0.66	High	0.99	3 B
5024271	1A	DT	47.75			0	0	0	0.00		0.00	3 B

Property ID	Habitat Zone.	Veg Category	Total Area (ha)	EVC No.	EVC Conservation Status	Landscape Score (0–25)	Site Condition Score (0–75)	Habitat Score (0 – 1)	Habitat Hectares	Conservation Significance	Offset Required (Habitat Hectares)	Figure No.
5												
50242715	9A	RP	9.85	VVP_0132_61	Endangered	5	19	0.24	2.36	High	3.54	3 B
50242715	2A	DT	7.45			0	0	0	0.00		0.00	3 B
52401338	1A	DT	257.00			0	0	0	0.00		0.00	3 N
52401351	4A	RP	0.69	VVP_0068	Endangered	3	9	0.12	0.08	High	0.12	3 K
52401351	5A	RP	0.50	VVP_0055_61	Endangered	4	33	0.37	0.19	High	0.29	3 K
52401351	2A	RP	1.43	VVP_0068	Endangered	4	14	0.18	0.26	High	0.39	3 K
52401351	1A	DT	106.56			0	0	0	0.00		0.00	3 N
52401351	3A	RP	0.13	VVP_0055_61	Endangered	2	18	0.20	0.03	High	0.05	3 K
52401355	2A	RP	0.19	VVP_0132_61	Endangered	1	19	0.20	0.04	High	0.06	3 J
52401355	3A	RP	1.09	VVP_0132_61	Endangered	1	20	0.21	0.23	High	0.35	3 I
52401355	5A	RP	1.24	VVP_0132_61	Endangered	1	21	0.22	0.27	High	0.41	3 I
52401355	4A	RP	0.42	VVP_0132_61	Endangered	1	19	0.20	0.08	High	0.12	3 I

Property ID	Habitat Zone.	Veg Category	Total Area (ha)	EVC No.	EVC Conservation Status	Landscape Score (0–25)	Site Condition Score (0–75)	Habitat Score (0 – 1)	Habitat Hectares	Conservation Significance	Offset Required (Habitat Hectares)	Figure No.
52401355	1A	DT	107.23			0	0	0	0.00		0.00	3 I
52401355	7A	RP	0.80	VVP_0132_61	Endangered	2	20	0.22	0.18	High	0.27	3 J
52401355	6A	RP	5.08	VVP_0132_61	Endangered	3	20	0.23	1.17	High	1.76	3 I
150581390	1A	RP	4.39	VVP_0132_63	Endangered	6	17	0.23	1.01	High	1.52	3 G
150581390	3A	DT	7.71			0	0	0	0.00		0.00	3 G
150581390	2A	DT	0.03			0	0	0	0.00		0.00	3 G
204544186	4A	RP	0.01	VVP_0132_61	Endangered	3	9	0.12	0.00	High	0.00	3 B
204544186	3A	RP	0.10	VVP_0132_61	Endangered	3	7	0.10	0.01	High	0.02	3 B
204544186	2A	RP	0.12	VVP_0132_61	Endangered	3	16	0.19	0.02	High	0.03	3 B
204544186	1A	DT	5.33			0	0	0	0.00		0.00	3 B
207977125	39A	RP	0.10	VVP_0132_61	Endangered	3	16	0.19	0.02	High	0.03	3 F
207977125	46A	RP	6.70	VVP_0132_61	Endangered	6	19	0.25	1.68	High	2.52	3 F

Property ID	Habitat Zone.	Veg Category	Total Area (ha)	EVC No.	EVC Conservation Status	Landscape Score (0–25)	Site Condition Score (0–75)	Habitat Score (0 – 1)	Habitat Hectares	Conservation Significance	Offset Required (Habitat Hectares)	Figure No.
2079771 25	3A	RP	0.06	VVP_0649	Endangered	4	16	0.20	0.01	High	0.02	3 E
2079771 25	5A	RP	0.21	VVP_0649	Endangered	2	9	0.11	0.02	High	0.03	3 E
2079771 25	4A	RP	0.81	VVP_0649	Endangered	3	11	0.14	0.11	High	0.17	3 E
2079771 25	2A	RP	0.07	VVP_0649	Endangered	4	16	0.20	0.01	High	0.02	3 E
2079771 25	10A	RP	0.05	VVP_0132_61	Endangered	4	9	0.13	0.01	High	0.02	3 E
2079771 25	1A	RP	0.01	VVP_0132_61	Endangered	3	7	0.10	0.00	High	0.00	3 E
2079771 25	7A	RP	0.28	VVP_0649	Endangered	2	9	0.11	0.03	High	0.05	3 E
2079771 25	6A	RP	0.49	VVP_0649	Endangered	2	9	0.11	0.05	High	0.08	3 E
2079771 25	8A	RP	2.81	VVP_0649	Endangered	3	14	0.17	0.48	High	0.72	3 E
2079771 25	17A	RP	1.56	VVP_0649	Endangered	3	12	0.15	0.23	High	0.35	3 E
2079771 25	16A	RP	0.73	VVP_0649	Endangered	3	7	0.10	0.07	High	0.11	3 E
2079771 25	15A	RP	0.71	VVP_0649	Endangered	4	22	0.26	0.18	High	0.27	3 E

Property ID	Habitat Zone.	Veg Category	Total Area (ha)	EVC No.	EVC Conservation Status	Landscape Score (0–25)	Site Condition Score (0–75)	Habitat Score (0 – 1)	Habitat Hectares	Conservation Significance	Offset Required (Habitat Hectares)	Figure No.
2079771 25	11A	RP	0.13	VVP_0132_61	Endangered	2	16	0.18	0.02	High	0.03	3 E
2079771 25	12A	RP	0.20	VVP_0132_61	Endangered	5	16	0.21	0.04	High	0.06	3 E
2079771 25	13A	RP	0.37	VVP_0132_61	Endangered	3	16	0.19	0.07	High	0.11	3 E
2079771 25	38A	RP	8.40	VVP_0132_63	Endangered	7	17	0.24	2.02	High	3.03	3 F
2079771 25	18A	RP	0.55	VVP_0132_61	Endangered	3	12	0.15	0.08	High	0.12	3 A
2079771 25	44A	RP	2.04	VVP_0132_63	Endangered	3	16	0.19	0.39	High	0.59	3 F
2079771 25	32A	RP	3.01	VVP_0132_63	Endangered	4	16	0.20	0.60	High	0.90	3 E
2079771 25	34A	RP	0.22	VVP_0132_63	Endangered	5	9	0.14	0.03	High	0.05	3 E
2079771 25	33A	RP	0.06	VVP_0132_63	Endangered	6	9	0.15	0.01	High	0.02	3 E
2079771 25	37A	RP	0.28	VVP_0132_63	Endangered	3	9	0.12	0.03	High	0.05	3 F
2079771 25	35A	RP	0.03	VVP_0132_63	Endangered	4	8	0.12	0.00	High	0.00	3 E
2079771 25	36A	RP	0.01	VVP_0132_63	Endangered	4	12	0.16	0.00	High	0.00	3 E

Property ID	Habitat Zone.	Veg Category	Total Area (ha)	EVC No.	EVC Conservation Status	Landscape Score (0–25)	Site Condition Score (0–75)	Habitat Score (0 – 1)	Habitat Hectares	Conservation Significance	Offset Required (Habitat Hectares)	Figure No.
2079771 25	31A	RP	0.09	VVP_0132_63	Endangered	6	8	0.14	0.01	High	0.02	3 E
2079771 25	30A	RP	0.06	VVP_0132_63	Endangered	4	9	0.13	0.01	High	0.02	3 E
2079771 25	29A	RP	0.81	VVP_0132_63	Endangered	4	12	0.16	0.13	High	0.20	3 E
2079771 25	26A	RP	0.09	VVP_0132_63	Endangered	2	12	0.14	0.01	High	0.02	3 E
2079771 25	27A	RP	0.31	VVP_0132_63	Endangered	3	12	0.15	0.05	High	0.08	3 E
2079771 25	28A	RP	2.29	VVP_0132_63	Endangered	4	12	0.16	0.37	High	0.56	3 E
2079771 25	20A	RP	0.85	VVP_0132_63	Endangered	2	9	0.11	0.09	High	0.14	3 E
2079771 25	24A	RP	1.99	VVP_0132_63	Endangered	3	9	0.12	0.24	High	0.36	3 E
2079771 25	25A	RP	0.03	VVP_0132_63	Endangered	3	9	0.12	0.00	High	0.00	3 E
2079771 25	21A	RP	1.31	VVP_0132_63	Endangered	3	16	0.19	0.25	High	0.38	3 E
2079771 25	22A	RP	0.15	VVP_0132_63	Endangered	3	16	0.19	0.03	High	0.05	3 E
2079771 25	23A	RP	0.09	VVP_0132_63	Endangered	2	19	0.21	0.02	High	0.03	3 E

Property ID	Habitat Zone.	Veg Category	Total Area (ha)	EVC No.	EVC Conservation Status	Landscape Score (0–25)	Site Condition Score (0–75)	Habitat Score (0 – 1)	Habitat Hectares	Conservation Significance	Offset Required (Habitat Hectares)	Figure No.
2079771 25	45A	RP	3.30	VVP_0132_61	Endangered	6	15	0.21	0.69	High	1.04	3 E
2079771 25	47A	RP	0.11	VVP_0132_61	Endangered	3	19	0.22	0.02	High	0.03	3 E
2079771 25	42A	RP	5.06	VVP_0132_61	Endangered	8	12	0.20	1.01	High	1.52	3 E
2079771 25	43A	RP	0.69	VVP_0132_61	Endangered	3	12	0.15	0.10	High	0.15	3 E
2079771 25	40A	RP	15.10	VVP_0132_61	Endangered	9	17	0.26	3.93	High	5.90	3 E
2079771 25	41A	RP	7.14	VVP_0132_61	Endangered	6	12	0.18	1.29	High	1.94	3 E
2079771 25	19A	RP	1.96	VVP_0649	Endangered	2	23	0.25	0.49	High	0.74	3 A
2079771 25	14A	RP	0.08	VVP_0132_61	Endangered	2	16	0.18	0.01	High	0.02	3 A
2079771 25	9A	RP	0.10	VVP_0649	Endangered	2	11	0.13	0.01	High	0.02	3 A
2079771 25	48A	DT	357.80			0	0	0	0.00		0.00	3 E
2091818 22	1A	RP	0.97	VVP_0132_61	Endangered	3	16	0.19	0.18	High	0.27	3 B
2091818 22	2A	DT	1.98			0	0	0	0.00		0.00	3 B

Property ID	Habitat Zone.	Veg Category	Total Area (ha)	EVC No.	EVC Conservation Status	Landscape Score (0–25)	Site Condition Score (0–75)	Habitat Score (0 – 1)	Habitat Hectares	Conservation Significance	Offset Required (Habitat Hectares)	Figure No.
2091818 22	3A	DT	10.19			0	0	0	0.00		0.00	3 B
2092801 22	4A	RP	2.69	VVP_0132_61	Endangered	2	20	0.22	0.59	High	0.89	3 B
2092801 22	6A	RP	1.57	VVP_0132_61	Endangered	1	17	0.18	0.28	High	0.42	3 B
2092801 22	5A	RP	0.15	VVP_0132_61	Endangered	1	19	0.2	0.03	High	0.05	3 B
2092801 22	2A	RP	0.81	VVP_0132_61	Endangered	1	19	0.2	0.16	High	0.24	3 B
2092801 22	1A	DT	23.50			0	0	0	0.00		0.00	3 B
2092801 22	3A	RP	0.08	VVP_0132_61	Endangered	0	11	0.11	0.01	High	0.02	3 B
2101511 17	4A	RP	0.62	VVP_0132_61	Endangered	1	27	0.28	0.17	High	0.26	3 F
2101511 17	5A	RP	0.02	VVP_0132_61	Endangered	1	16	0.17	0.00	High	0.00	3 F
2101511 17	6A	RP	0.08	VVP_0132_61	Endangered	1	16	0.17	0.01	High	0.02	3 F
2101511 17	1A	RP	3.24	VVP_0132_61	Endangered	7	16	0.23	0.75	High	1.13	3 I
2101511 17	15A	DT	0.11			0	0	0	0.00		0.00	3 F

Property ID	Habitat Zone.	Veg Category	Total Area (ha)	EVC No.	EVC Conservation Status	Landscape Score (0–25)	Site Condition Score (0–75)	Habitat Score (0 – 1)	Habitat Hectares	Conservation Significance	Offset Required (Habitat Hectares)	Figure No.
2101511 17	3A	RP	0.02	VVP_0132_62	Endangered	2	16	0.18	0.00	High	0.00	3 F
2101511 17	2A	RP	0.76	VVP_0132_63	Endangered	3	16	0.19	0.14	High	0.21	3 F
2101511 17	8A	RP	1.79	VVP_0132_61	Endangered	0	15	0.15	0.27	High	0.41	3 F
2101511 17	7A	RP	0.50	VVP_0132_61	Endangered	0	11	0.11	0.06	High	0.09	3 F
2101511 17	16A	DT	49.45			0	0	0	0.00		0.00	3 F
2101511 17	9A	RP	0.57	VVP_0132_61	Endangered	0	11	0.11	0.06	High	0.09	3 F
2101511 17	14A	DT	0.18			0	0	0	0.00		0.00	3 F
2101511 17	11A	DT	0.04			0	0	0	0.00		0.00	3 F
2101511 17	12A	DT	0.08			0	0	0	0.00		0.00	3 F
2101511 17	10A	DT	6.67			0	0	0	0.00		0.00	3 F
2101511 17	13A	DT	0.02			0	0	0	0.00		0.00	3 F
2107518 91	1A	DT	34.99			0	0	0	0.00		0.00	3 I

Property ID	Habitat Zone.	Veg Category	Total Area (ha)	EVC No.	EVC Conservation Status	Landscape Score (0–25)	Site Condition Score (0–75)	Habitat Score (0 – 1)	Habitat Hectares	Conservation Significance	Offset Required (Habitat Hectares)	Figure No.
2120962 01	2A	DT	32.25			0	0	0	0.00		0.00	3 I
2120962 01	1A	RP	9.29	VVP_0132_61	Endangered	7	16	0.23	2.14	High	3.21	3 I
(NO ID)	1A	DT	10.48			0	0	0	0.00		0.00	3 I
Total			1651.97						44.46		66.69	

DT – Degraded Treeless Vegetation; RP – Remnant Patch; VVP – Victorian Volcanic Plain Bioregion.

Ecological Vegetation Classes (EVC): 0132_61 – Heavier-soils Plains Grassland; 0132_62 – Lighter-soils Plains Grassland; 0132_63 – Low-rainfall Plains Grassland; 0649 – Stony Knoll Shrubland; 0125 – Plains Grassy Wetland; 068 – Creekline Grassy Woodland; 055_61 – Plains Grassy Woodland.

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Appendix C

Legislative Requirements

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Commonwealth Legislative Requirements

The Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) applies to the following Matters of National Environmental Significance:

- World Heritage properties;
- National Heritage Places;
- Ramsar wetlands of international significance;
- Nationally listed threatened species and ecological communities;
- Listed migratory species;
- Commonwealth marine areas; and
- Nuclear Actions.

Under Section 26 of the EPBC Act, actions that are likely to have a significant impact upon matters of national environmental significance require approval from the Federal Environment Minister. This is done by a referral to the Department of Environment, Water, Heritage and the Arts (DEWHA).

State Legislative Requirements

The *Victorian Flora and Fauna Guarantee Act 1988* (FFG Act) was established to provide a legal framework for enabling and promoting the conservation of all Victoria's native flora and fauna, and to enable management of potentially threatening processes. The Act provides a listing process, whereby native species and communities of flora and fauna, and the processes that threaten native flora and fauna are listed in the schedules of the Act. This process assists in identifying those species and communities that require management regimes to survive, and highlights the processes required to minimise the threat to native flora and fauna species and communities within Victoria.

A permit from Department of Sustainability and Environment (DSE) is required under the following circumstances:

- To 'take' listed flora species from listed communities or protected flora from public land.
- If the site is declared 'critical habitat' for the species.

Victorian Catchment and Land Protection Act 1994

The *Catchment and Land Protection Act 1994* (CaLP Act) is the principal legislation relating to the management of pest plants and animals in Victoria. Under this Act, landowners have a responsibility to avoid causing or contributing to land degradation, including taking all reasonable steps to conserve soil, protect water resources, eradicate regionally prohibited weeds, prevent the growth and spread of regionally controlled weeds and where possible, eradicate established pest animals, as declared as "noxious" under the Act.

The CaLP Act is similar to the FFG Act as it may be used by DSE (or other bodies) to advise the Minister on the appropriateness of the development.

Victorian Planning and Environment Act 1987

The *Planning and Environment Act 1987* (P&E Act) is the primary legislation that provides the foundation of the planning schemes in Victoria. The planning schemes set out policies and provisions for the use and development of land. Each municipality in Victoria is covered by a planning scheme. The objectives of the Act are to establish a system of planning schemes and to integrate land use and development planning and policy with environmental, social, economic, conservation and resource management policies at State, regional and municipal levels. The Act also establishes a clear procedure for public participation in decision making in amending planning schemes.

The *Planning and Environment Act 1996* (Planning Schemes) provides for the Minister for Planning to prepare a set of standard provisions for planning schemes called the Victoria Planning Provisions (VPP). The VPP is a State-wide reference document or template from which planning schemes are sourced and constructed. It is a statutory device to ensure that consistent provisions for various matters are maintained across Victoria and that the construction and layout of planning schemes is always the same.

State Policies

In addition to legislation, there are also a number of relevant State policies. These policies are not statutory but are used to further assess biological attributes. This information may also provide a conservation significance rating which allows proponents and regulators to make decisions on the appropriateness of the application.

Victoria's Native Vegetation Management – A Framework for Action

Victoria's Native Vegetation Management - A Framework for Action (The Framework) was incorporated into the Victorian Planning Schemes in July 2003. The main aim of The Framework for native vegetation in Victoria is 'a reversal across the entire landscape, of the long-term decline in the extent and quality of native vegetation, leading to a Net Gain' (DNRE, 2002).

In terms of proposed native vegetation clearance, a three-step approach must be taken in order to apply the principles of Net Gain. These steps are:

- a) Avoid adverse impacts, particularly by avoiding vegetation clearance;
- b) Where these impacts cannot be avoided, exploring appropriate options to minimise those impacts; and
- c) Identifying appropriate offset options in response to clearing (DNRE 2002).

The Framework also requires that native vegetation proposed to be modified or removed, be assessed for its conservation significance by determining the quality of the vegetation (based on the remaining area within the Bioregion) and associated habitat value.

DSE Advisory List of Threatened Species

The *Advisory List of Rare or Threatened Plants in Victoria – 2005* (DSE 2005a) and the *Advisory List of Threatened Vertebrate Fauna in Victoria* (DSE 2003) provide a significance rating for flora and fauna species within Victoria. The purpose of these lists is to assist regulators (i.e. DSE) to make decisions regarding planning processes.

