

Statement of Expert Evidence (Ecology): Craigieburn West Precinct Structure Plan Draft Amendment to the Hume Planning Scheme (Amendment)

Prepared for:

Victorian Planning Authority

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Author:

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- The landowners who provided access to the study area;
- The Victorian Department of Environment, Land, Water and Planning for access to ecological databases.

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1 AUTHOR'S EXPERTISE

This Statement of Expert Evidence has been prepared by Mr Aaron Organ, Director and Principal Ecologist, Ecology and Heritage Partners Pty Ltd, of 292 Mt Alexander Road, Ascot Vale, Victoria.

Aaron has a Degree in Natural Resource Management, a Graduate Certificate in Natural Resource Management and a Masters in Environment and Planning. He has over 24 years' experience in the environmental field, including 20 years in an environmental consultant capacity. Aaron has also previously worked as a field ecologist in East Gippsland Victoria and has worked as a ranger in Queensland and Victoria, having extensive experience in National Park and Reserve management throughout Australia.

Aaron has a broad and working knowledge of terrestrial ecology throughout Victoria and has either managed or played an important role in providing environmental advice on many infrastructure projects such as proposed pipelines, and road and rail developments. He has also been a lead author and/or co-author for over 600 projects and has provided expert advice to a range of clients. Some of these projects include many proposed wind farms in Victoria, South Australia and Tasmania, long-term flora and fauna monitoring throughout the Illawarra escarpment New South Wales, and various project throughout Melbourne Growth Areas. He has represented multiple private and Government clients on most of the PSPs (e.g. Lindum Vale, Wollert, Donnybrook / Woodstock) throughout Melbourne's northern growth areas.

2 AUTHOR'S STATEMENT

I, Aaron Organ of Ecology and Heritage Partners Pty Ltd, have prepared this Statement of Expert Evidence pertaining to the proposed Craigieburn West Precinct Structure Plan (PSP) and Draft Amendment to the Hume Planning Scheme (Amendment). This statement is based on the findings of site assessments undertaken by myself and Callum Luke (Consultant Zoologist) of Ecology and Heritage Partners in 2019 and early 2020 as part of the preparation of the Draft Kangaroo Management Strategy (KMS) for the proposed PSP.

I have made all the inquiries that I believe are desirable and appropriate and that no matters of significance which I regard as relevant have to my knowledge been withheld from Committee. I adopt the earlier Draft KMS as my evidence, although it is important to note that there have been several recent changes to this report (e.g. management actions for the species across the PSP), and the report is yet to be finalised. The overall objectives outlined in the Draft KMS together with the 'Decision-making Flowchart' provided therein provides a framework for developers and the Responsible Authority to determine whether an Abridged Kangaroo Management Plan (KMP), a Standard KMP, or a Detailed KMP is required depending on the overall risks to Kangaroos and human safety associated with the proposed development of a particular area in the PSP. The requirement for a KMP is outlined in proposed application requirements of Schedule 12 to Clause 37.07 of the Urban Growth Zone and I support this.

3 INTRODUCTION

3.1 Background

Ecology and Heritage Partners Pty was engaged by the Victorian Planning Authority (VPA) to develop a KMS that will allow for the coordinated management of Eastern Grey Kangaroo *Macropus giganteus* across the Craigieburn West PSP as development progresses (Figure 1). This Plan is a Draft and is currently being finalised to incorporate recent feedback from the Victorian Planning Authority, the Department of Environment, Land, Water and Planning (DELWP) and Hume City Council. Any additional information and feedback received on the Draft KMS during the VPA Projects Standing Advisory Committee hearing will be considered as part of the finalisation of the KMS.

Previous assessments have been undertaken to determine the population size, extent and movement directions of Eastern Grey Kangaroos residing within the PSP and identify the key risks posed to these populations. To ensure that accurate and implementable management practices are being proposed, Ecology and Heritage Partners undertook stakeholder consultation with the following stakeholders, including:

- Victorian Planning Authority;
- DELWP;
- Hume City Council; and,
- Melbourne Water.

The consultation was undertaken to ensure that the feasibility assessment outlined in Section 5.3 of the Draft KMS includes management priorities of those stakeholders who are responsible for managing the land within the PSP and the land neighbouring the PSP.

3.2 Objectives of the KMS

The key objective of the KMS is to provide guidance on the best practice management actions that will need to be implemented by individual developers during the development of the Craigieburn West Precinct, so that risks to human safety and the welfare of the existing Eastern Grey Kangaroo population within the Precinct can be appropriately managed. The KMS is standalone document that is referenced in Schedule 12 to Clause 37.07 of the Urban Growth Zone. This strategy focuses on providing developers and landowners with a clear and concise decision-making framework which will determine whether they require an Abridged, Standard or Detailed EMP.

Although a population of Eastern Grey Kangaroo may persist in the Craigieburn West Precinct during and at the completion of the development of the precinct, the in-situ conservation of a population of Eastern Grey Kangaroo in the future is not an objective of the KMS. The reason for this is that based on the proposed Craigieburn West PSP, and the fact that the land will change from a rural / peri urban setting to an urban area (i.e. urban development) there will be a significant reduction in the availability and accessibility of any remaining habitat for the species. Additionally, the reality is that the future development of the precinct will result in additional barriers (i.e. housing, roads and urban infrastructure) that will restrict the dispersal of Eastern Grey Kangaroos within and outside of the precinct, thus significantly compromising the long-term viability of the population(s) in the future. Any residual population within the precinct after the development will require ongoing and intense management, and most likely require invasive population control techniques

(e.g. culling, fertility control or relocation / translocation). Indeed, this is consistent with urban areas around Melbourne and other regions where extant populations have and continue to require ongoing management.

3.3 Study Area

The Craigieburn West PSP is located approximately 30 kilometres north-west of Melbourne's CBD along the western edge of Melbourne's Urban Growth Boundary (UGB). The precinct covers an area of approximately 564 hectares and primarily comprises agricultural farmland and rural living.

The Craigieburn West PSP is bound by the Lindum Vale PSP to the north, the Craigieburn PSP to the east, the Greenvale PSP to the south, while the land to the west is primarily undeveloped and falls outside of the UGB.

The study area is located within the northern growth corridor and comprises the entire Craigieburn West PSP. A Conservation Area (CA29) established under the BCS is located in the northern section of the study area (DEPI 2013, page 107) (i.e. north of Craigieburn Road) and supports a resident population of the nationally significant Golden Sun Moth.

The study area is bound by several main roads including Mickleham Road and Mt Ridley Road, and is intersected in the middle by Craigieburn Road. Mickleham Road abuts the entirety of the western boundary and it is considered a high risk, heavy traffic road. It is currently a two-lane road and is planned to be upgraded sometime in the future to a six-lane, dual carriage arterial. Mt Ridley Road abuts the northern boundary and is considered a moderate risk road. Craigieburn Road, which runs east to west through the middle of the study area, is also considered as a medium risk, heavy traffic road. It is currently a two-lane road, but upgrades have been planned to increase the width to four lanes (Major Road Projects 2019). Low risk roads such as Whites Lane and Olivers Road extend northward and westward respectively along the eastern boundary of the northern section, while Dunhelen Lane extends east of Mickleham Road allowing access into the conference centre.

3.4 Current Eastern Grey Kangaroo Conditions

Two distinct populations of Eastern Grey Kangaroos were identified during the previous site assessment consisting of approximately 130 individuals each (Figure 2). No north-south movement of Eastern Grey Kangaroos was observed between these two populations. The first population (referred to as the 'northern population') was located north of Craigieburn Road and was distributed widely across the land south of Conservation Area 29. Eastern Grey Kangaroos from this population were also observed to the east of the PSP within the currently undeveloped land of the Craigieburn R2 PSP.

The population of Eastern Grey Kangaroos to the south (referred to as the 'southern population') were primarily clustered in the south-east corner of the PSP and the adjoining land to the south and east where large amounts of protective habitat, food and water resources were present.

3.5 Current Eastern Grey Kangaroo Movement

There was no north-south movement of Eastern Grey Kangaroos observed during the population surveys. Movement between the north-south populations may still occur when Eastern Grey Kangaroos are more active, and movement of Kangaroos out of the PSP is generally expected to be westward across Mickleham Road and northward across Mt Ridley Road as development progresses. Encroaching development to the south and east restricts Eastern Grey Kangaroo movement in these directions. There remains a risk that

Eastern Grey Kangaroos may become land-locked in the south-east corner of the study area if development to the west inhibits their movement northward or westward across Mickleham Road. However, this can be managed with the implementation of a Eastern Grey Kangaroo EMP at these land parcels as development proceeds.

3.6 Summary of the Content of the Draft KMS

A summary of the components of the Draft KMS is provided below:

- Section 2.1: Pre-development Conditions
- Section 2.2: Future Conditions
- Section 3.0: Summary of Risks
- Section 3.1: Risks to Humans
- Section 3.2: Risks to Eastern Grey Kangaroos
- Section 3.3: Risks to Environment
- Section 3.4: Future Risks
- Section 3.5: Risk Assessment
- Section 4.0: Potential Management Actions
- Section 4.1: Potential Management Options
- Section 4.2: Site-Specific Management Recommendations
- Section 4.3: Feasibility Assessment of Management Actions
- Section 4.4: Summary of the Key Management Actions
- Appendix 1.0: Existing Conditions Table
- Appendix 2.0: Decision-Making Flowchart
- Appendix 3.0: Information Sheet: Kangaroo in Action Construction Sites
- Appendix 4.0: Abridged KMP
- Appendix 5.0: Standard KMP
- Appendix 6.0: Detailed KMP

Detailed information under each of the headings is provided in the Draft KMS.

4 KEY COMPONENTS OF THE KMS

The key component of the KMS that informs the type and content of the KMP is the Decision-making Flowchart (Page 11). Developments that require either Abridged, Standard or Detailed KMPs and the key areas that need to be addressed in each plan are outlined below (Ecology and Heritage Partners in prep.).

4.1 Abridged KMP

An Abridged KMP will only be required for small land parcels where EGKs have not previously been detected or where there are few habitat and food resources. The guideline to preparing KMP for Melbourne's growth corridors (DELWP 2015) provides further clarification around the requirements for an Abridged KMP. An Abridged KMP will address the following:

- Introduction;
- Kangaroo management rationale;
- Site description;
- Survey methodology;
- Plan goals;
- Staged development plan;
- Preventative actions; and,
- Assessment of other preventative options.

All KMPs must be submitted to DELWP for review and approval before development can commence.

4.2 Standard KMP

A Standard KMP will be required in most instances across the PSP where Eastern Grey Kangaroos are not at risk of becoming land locked. The guideline to preparing KMPs for Melbourne's growth corridors (DELWP 2015) provides further clarification around the requirements for a standard KMP. A Standard KMP will address the following:

- Introduction;
- Kangaroo management rationale;
- Site description;
- Survey methodology;
- Population survey results;
- Plan goals;
- Staged development plan;
- Management actions;

- Assessment of other management options;
- Monitoring; and,
- Contingency planning.

As outlined above, all KMPs must be submitted to DELWP for review and approval before development can commence.

4.3 Detailed KMP

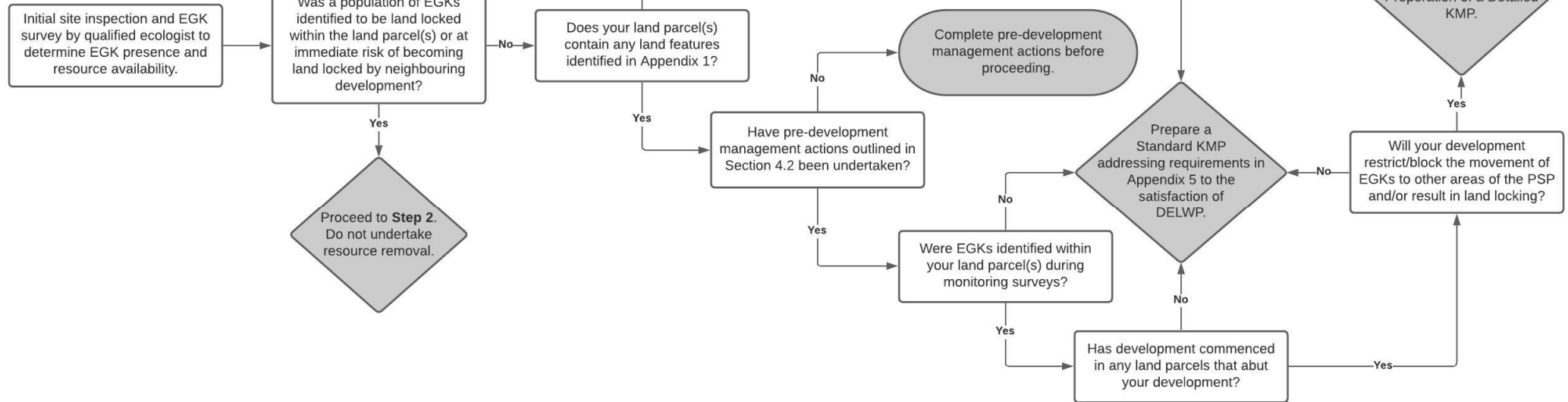
A Detailed KMP is required when the Decision-making Flowchart has identified a risk of land locking to Eastern Grey Kangaroos. A Detailed KMP must address the requirements of a Standard KMP as well as addressing the following conditions to the satisfaction of the responsible authority:

- A description of the proposed development in context to EGKs observed in the area;
- Feasibility of developing alternative staging plan that may allow EGKs to disperse to neighbouring land or reduce likelihood of Eastern Grey Kangaroo-human interactions;
- Description of the potential impacts and risks presented to Eastern Grey Kangaroos and humans;
- Detailed site and population surveys undertaken by a suitably qualified ecologist to determine:
 - Extent of available Eastern Grey Kangaroo resources within areas of high land locking risk;
 - Number of Eastern Grey Kangaroos land-locked or at risk of becoming land locked;
 - Health of land locked Eastern Grey Kangaroos;
 - Population structure of land-locked Eastern Grey Kangaroos (e.g. Number of males, females and juveniles); and,
 - Eastern Grey Kangaroo movement patterns and any potential corridors out of high-risk areas.
- Mapping showing locations of Eastern Grey Kangaroos, resources and areas where Eastern Grey Kangaroos are land locked;
- Evidence of consultation with neighbouring landowners to determine risks to Eastern Grey Kangaroos and potential mitigation actions (e.g. changing development directions);
 - Has a KMP been prepared for any neighbouring land parcel?
- Address increased risks to humans and Eastern Grey Kangaroo welfare that may arise as a result of land locking Eastern Grey Kangaroos;
- An assessment of potential population management actions for land-locked Eastern Grey Kangaroos (if required);
 - Culling;
 - Translocation; and
 - Reproductive management.

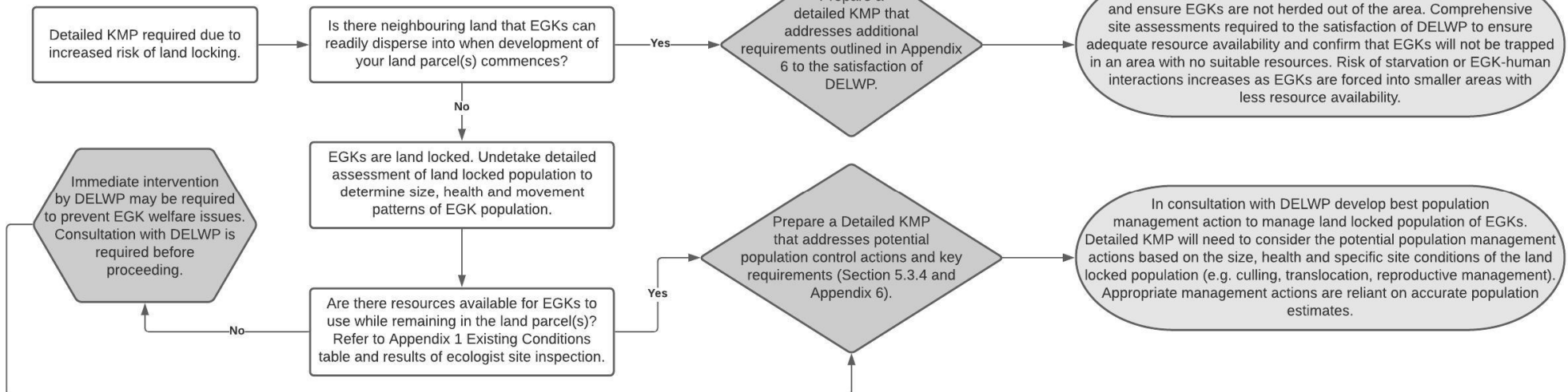
- Consultation with DELWP to determine most appropriate population management action. Outcome will be based on size of population, health and amount of time EGK can persist in the area before development proceeds or available resources are used up.
- 6 monthly monitoring of high-risk populations (i.e. populations that are land locked or at risk of becoming land locked in the immediate future). More regular monitoring may be recommended by the ecologist and/or DELWP based on the risks to Eastern Grey Kangaroos.

As outlined above, all KMPs must be submitted to DELWP for review and approval before development can commence.

Step 1



Step 2 - Detailed KMP



4.4 Definitions of terms used in Flowchart

Term	Definition
Development commencing	The date in which development begins in a given land parcel.
DELWP	Department of Environment, Land, Water and Planning
EGK	Eastern Grey Kangaroo
Herded out	The non-lethal, human induced movement of EGKs out of the area.
Land locking	Where kangaroos are 'shut in' completely or almost completely by surrounding development with no way out.
Monitoring surveys	Surveys undertaken to monitor the health, location and size of identified populations within the area to inform any necessary contingency management.
Neighbouring land	Land immediately adjoining the land parcel in question
Population Survey	Conducted if EGKs are identified within the study area over the last 12 months and used to determine the number, location, movement patterns, health and other notable information of the identified EGKs. Refer to Section 4.2 for more information.
Resource	Edible grasses or herbs and water points
Restrict movement	Where individuals cannot freely move out of the area.
Staged development	Staged development is the planning of the order of each stage of a subdivision to avoid landlocking kangaroos.
Starvation	The lack of resources resulting in the starvation and eventual death of EGKs.
Site inspection	An initial presence/absence survey to establish if there are kangaroos in the survey area, or if there is evidence that kangaroos have been in the survey area in the last 12 months, Refer to Section 4.1 of the Draft KMS.

5 DELWP AND HUME CITY COUNCIL'S SUBMISSIONS

With respect to DELWP and Hume City Council's submissions to the Draft KMS, we received comments after the completion of the Strategy and have since had a virtual meeting (23 March 2021) with DELWP, Council and the VPA to discuss the various comments. There are several updates that have been made to the Draft KMS in light of DELWP's feedback, including:

- Expansion of the management actions that will be implemented to manage risks to animal welfare and human safety during development of the Craigieburn West Precinct;
- Information regarding how the risk of landlocking within and outside the precinct will be addressed;
- The responsibility and funding (i.e. who will coordinate implementation of the KMS and how will management actions be funded). Note: Developers will be responsible for the future development and implementation of individual KMPs; and,
- Monitoring and review (i.e. how will monitoring of the strategy's effectiveness with respect to achieving risk management objectives will be achieved).

With respect to Hume City Council's submission to the Draft KMS, while in broad terms I can confirm that many of Council's comments / requirements have been addressed in the updated KMS, there are several comments that are either unresolved or are not anticipated to be accommodated in the final KMS. These include Submission Item Numbers 17.04 to 17.12, that principally relate to the following:

- Issue 3: Controlling Development Direction and Staged Development
- Issue 4: In-situ Population Management
- Issue 5: Population Control
- Issue 6: Feasibility Assessment Table
- Issue 7: Management Actions Table

There will be further consideration regarding habitat connectivity for Eastern Grey Kangaroos across the precinct. However, given the lack of expansive habitat throughout the Craigieburn West PSP [i.e. potential habitat will remain in the form of a narrow drainage line that run east-west across the northern portion of the precinct] it will be very difficult to cater for an in-situ population of Eastern Grey Kangaroo, which is not the objective of the KMS. In addition, it is unrealistic to control / influence the sequencing of residential development across the precinct (it is also not required from a Eastern Grey Kangaroo population management perspective), while the overall objective of the KMS is not to specifically cater for an in-situ population within the precinct in the future.

The implementation of a KMP(s) (as outlined in a planning permit condition under Schedule 12 to Clause 37.07 of the Urban Growth Zone) for a specific development will allow for the efficient management of any Eastern Grey Kangaroo population(s) present, or that has the potential to occupy habitats within a particular land parcel, including any requirements for population control and future monitoring. Before the certification of the plan of subdivision, a KMP must be approved by the Secretary to DELWP. If required DELWP may consult with Hume City Council to receive their feedback on individual KMPs prior to approval.

6 CONCLUSION

Ecology and Heritage Partners was engaged by the VPA to develop a KMS that will allow for the coordinated management of Eastern Grey Kangaroo across the Craigieburn West PSP as development progresses (Figure 1). This Plan is a Draft and is currently being finalised to incorporate recent feedback from the VPA, DELWP and Hume City Council. Any additional information and feedback received on the Draft KMS during the VPA Projects Standing Advisory Committee hearing will be considered as part of the finalisation of the KMS.

Previous assessments have been undertaken to determine the population size, extent and movement directions of Eastern Grey Kangaroos residing within the PSP and identify the key risks posed to these populations (Ecology and Heritage Partners 2020).

I adopt the earlier Draft KMS as my evidence, although it is important to note (as outlined above) that there have been several recent changes to this document, and the report is yet to be finalised. The overall objectives outlined in the Draft KMS together with the 'Decision-making Flowchart' provides a framework for developers and the Responsible Authority to determine whether an Abridged KMP, a Standard KMP, or a Detailed KMP is required depending on the overall risks to Eastern Grey Kangaroos and human safety associated with the proposed development of a particular area in the PSP.

The requirement for a KMP is outlined in proposed application requirements of Schedule 12 to Clause 37.07 of the Urban Growth Zone, and states the following:

Kangaroo Management Plan

For an application to subdivide land, a Kangaroo Management Plan prepared to the satisfaction of the Secretary to the Department of Environment, Land, Water and Planning that:

- *addresses the recommendations of the Eastern Grey Kangaroo Strategic Management Plan: Craigieburn West Precinct Structure Plan (PSP 1068), Craigieburn prepared by Ecology and Heritage Partners, dated November 2020; and includes:*
 - *Strategies to avoid land locking kangaroos, including staging of subdivision;*
 - *Strategies to minimise animal and human welfare risks;*
 - *Management and monitoring actions to sustainably manage a population of kangaroos within a suitable location; and*
 - *Actions to address the containment of kangaroos to ensure adequate animal welfare.*

Conditions and requirements - Kangaroo Management Plan

A permit granted for subdivision of land must include the following conditions:

Before the certification of the plan of subdivision, a Kangaroo Management Plan must be approved by the Secretary to the Department of Environment, Land, Water and Planning (DELWP). The approved plan will form part of the permit.

I don't have any suggested changes to the detail relating to the KMP outlined in Schedule 12 to Clause 37.07 of the Urban Growth Zone.

The Draft KMS will be finalised in light of the comments received by DELWP and Hume City Council.

7 REQUIRED INFORMATION

Name and Address

This report has been prepared by Aaron Organ, Director of Ecology and Heritage Partners, 292 Mt Alexander Road, Ascot Vale, Ph: (03) 9377 0100, aorgan@ehpartners.com.au

Area of Expertise

Aaron Organ is an expert ecologist, with skills in all the major ecological environments of south-eastern Australia. He has expertise in the workings of ecological systems, both under natural conditions and when affected by unnatural disturbance regimes such as weed invasion and impacts of development projects. He has also considerable experience in the application and practical implementation of current Commonwealth and State environmental legislation and Government Policy.

Expertise to make this Report

Aaron Organ has considerable knowledge of the native flora and fauna in south eastern Australia, including in areas throughout central Victoria. Relevant experience includes:

- Completed over 500 flora and fauna investigations/assessments.
- Aaron has also prepared over 200 ecological assessment reports for residential development throughout Victoria.

A selection of past VCAT and Panel appearances include:

- 2020: Proposed Addition of Nine Dwellings to the Existing Development at 114 Hanna Street, Noble Park, Victoria (VCAT)
- 2019: Proposed Emergency Fire Station at 109-115A Yan Yean Road, Plenty, Victoria (VCAT)
- 2019: Proposed telecommunication tower at 20 Settlement Road, Wesburn (VCAT)
- 2019: Proposed residential development at 22 Wood Street, Preston (VCAT)
- 2019: Proposed Inverleigh Wind and Solar Farm (Panel)
- 2018: Proposed residential development at 11 Tarella Drive, Chelsea (Panel)
- 2019: Proposed Telecommunication Facility at 20 Settlement Road, Wesburn, Victoria (VCAT)
- 2018: Lindum Vale Precinct Structure Plan (PSP 1202): Amendment C205 (Panel)
- 2018: Proposed Landfill Extension (Rockleigh Quarry), Devilbend, Victoria (VCAT)
- 2018: Proposed residential dwelling at 9 Devonshire Lane, Mount Macedon, Victoria (VCAT)
- 2018: Proposed residential development at 11 Tarella Drive, Chelsea, Victoria – Taylors Development Strategists (VCAT)
- 2018: Proposed construction, 141 Basin-Olinda Road, The Basin – Best Hooper Lawyers (VCAT)

- 2017. Proposed retirement development at 527 Stoney Point Road and 182 Wooleys Road, Bittern (VCAT).
- 2017: Proposed residential development, Kangaroo Flat – Harwood Andrews Lawyers (VCAT)
- 2015: Amendment C187 to the Whittlesea Planning Scheme. Wollert Precinct Structure Plan (PSP 1070) (Panel).
- 2015: Yaringa Boat Harbour Expansion, Yaringa, Victoria – (Panel)
- 2015: Proposed residential development at 134-166 Aspinall Street, Golden Square, Victoria – (VCAT)
- 2015: Amended Permit Associated with the use and development of the land for a Place of Worship – 171 – 197 Harkness Road, Melton West, Victoria – (VCAT).
- 2014: Proposed Development Plan Overlay and Planning Permit Applications for a Proposed Residential Development at 370A Riddell Road, Sunbury, Victoria – (VCAT).
- 2014: Kilmore – Wallan Bypass – (Panel).
- 2014. Proposed residential development at 107 Gipps Street, Port Fairy (VCAT)
- 2014: NBN Fixed Wireless Telecommunications Facility at 49D Eddy Avenue, Mt Helen, Victoria – Clayton Utz Lawyers (VCAT)
- 2014: Proposed residential development at 10 Fullarton Drive, Paynesville, Victoria – Hall & Wilcox Pty Ltd (VCAT)
- 2013: Statement of Expert Evidence: 1 Hobbs Road Wyndham Vale, Victoria. Amendment C171 - Ballan Road Precinct Structure Plan (PSP 40)
- 2013: Statement of Expert Evidence: Review of time stamped data for Amendment C172 - Ballan Road, Wyndham Vale (PSP 92)
- 2013: Statement of Expert Evidence: 305-315 Craigieburn Road East, Wollert, Victoria. Wollert Developments Pty Ltd. (VCAT)
- 2013: Proposed Planning Scheme Amendment C164 - 275 Racecourse Road, Sunbury – Hume City Council (Panel).
- 2013: Western Highway Duplication - Section 3, Ararat to Stawell, Victoria – DLA Phillip Piper (Panel).
- 2013: Cherry Tree Wind Farm – Maddocks Lawyers (VCAT).
- 2012: Western Highway Duplication - Section 2, Beaufort to Ararat, Victoria – DLA Phillip Piper (Panel).
- 2012: Proposed Peninsula Link Freeway Service Centres, 83 Sages Road Baxter, Victoria – Rigby Cook Lawyers Pty Ltd (VCAT)
- 2011: Western Highway Duplication - Section 1, Burrumbeet to Beaufort, Victoria – DLA Phillip Fox (Panel)
- 2011: Old Warrandyte Road, flora and fauna review and Panel hearing, Donvale – Norton Rose Australia Pty Ltd. (Panel)

- 2010: Marquands Road and Leakes Road (Lot 9), Truganina, Truganina South Precinct Structure Plan – Stockland (Panel)
- 2010: Proposed Eastern Golf Course relocation to ‘Windsor Park’, 215–217 Victoria Road, Yering, Victoria – for Best Hooper (VCAT)
- 2010: Truganina South Community Precinct Structure Plan – for Central Equity and Stockland Limited (Panel)
- 2010: Craigieburn R2 Precinct Structure Plan – for Peet Limited (Panel)
- 2010: Proposed Mortlake Wind Farm – for Accionia Oceania Limited (Panel)
- 2009: Grenda Vehicle Storage Depot, Springvale Road, Keysborough - for Urbis Pty. Ltd. (VCAT)
- 2009: 1280 Boneo Road, Cape Schanck, development a proposed barn – for Hansen Planning Services (VCAT)
- 2008: Donald Mineral Sands Panel and associated works. Donald Mineral Sands project (Panel)
- 2009: Melton Planning Scheme Amendment C65 – 489-555 Robinsons Road South Precinct (Marksx Property), Truganina (Panel)
- 2008: Amendment C88 to the Bass Coast Shire Planning Scheme - Silverleaves, Phillip Island (Panel)
- 2008: proposed residential subdivision at 30-80 Seymour Road, Viewbank – for local landowner (VCAT)
- 2008: Proposed medium density development located on the corner of 1587-1589 Point Nepean Road and 1-1A Chatfield Avenue, Rosebud – for Fulcrum Town Planning Pty. Ltd. (VCAT)
- 2008: Residential development at 2 Rowe Street, Alphington – for Rob Wignall Architects (VCAT)
- 2008: Officer Service Centres, Officer – for Clayton UTZ Pty. Ltd. (VCAT)
- 2007: Anglesea Golf Club proposed Amendment C32 – for TGM Group Pty. Ltd. (Panel)
- 2007: Medium density housing at 2 Ramptons Road, Eltham – for Nillimbik Shire Council (VCAT)
- 2007: Medium density unit development in Frankston (adjacent to Kananook Creek) – for Gary Testro Lawyer (VCAT)
- 2007: Single dwelling development at 683 Great Ocean Road, Eastern Views, Victoria – for SJB Planning Pty Ltd (VCAT)
- 2006: Construction of a dwelling at 8 Charlotte Court, Warrandyte - for Glossop Town Planning Pty. Ltd. (VCAT)
- 2005: Dollar Wind Farm, Gippsland – for Freehills Lawyers (Panel)

Author's Declaration

I, Aaron Organ, have made all the inquiries that I believe are desirable and appropriate and that no matters of significance which I regard as relevant have to my knowledge been withheld from the Committee.

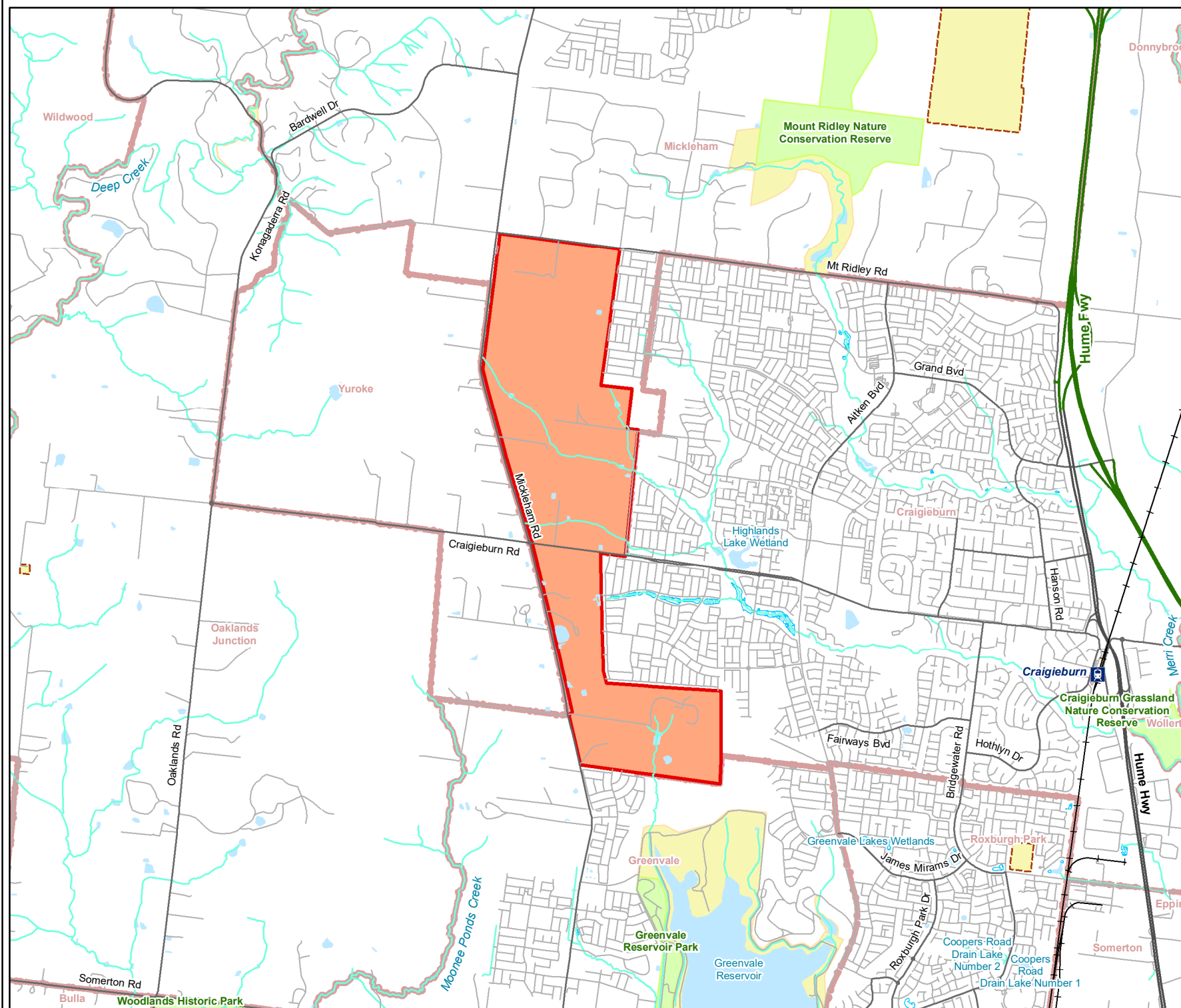
A handwritten signature in black ink, appearing to read "A. Organ".

----- Date: 15/04/2021

REFERENCES

- DEPI 2013. Biodiversity Conservation Strategy for Melbourne's Growth Corridors. Victoria Department of Environment and Primary Industries. June 2013. Melbourne, Victoria.
- DELWP 2015. Guide to preparing a kangaroo management plan for Melbourne's growth corridors. Victorian Department of Environment, Land, Water and Planning.
- Ecology and Heritage Partners (in prep). Eastern Grey Kangaroo Management Strategy: Craigieburn West Precinct Structure Plan (PSP 1068), Craigieburn. Draft report prepared for Victorian Planning Authority, October 2020.
- Major Road Projects 2019. Craigieburn Road Upgrade Community Update. Major Roads Projects Victoria. November 2019.

FIGURES



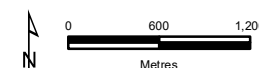
Legend

- Study Area
- Railway
- Freeway
- Major Road
- Collector Road
- Minor Road
- Minor Watercourse
- Permanent Waterbody
- Land Subject to Inundation
- Wetland/Swamp
- Parks and Reserves
- Commonwealth Land
- Crown Land
- Localities



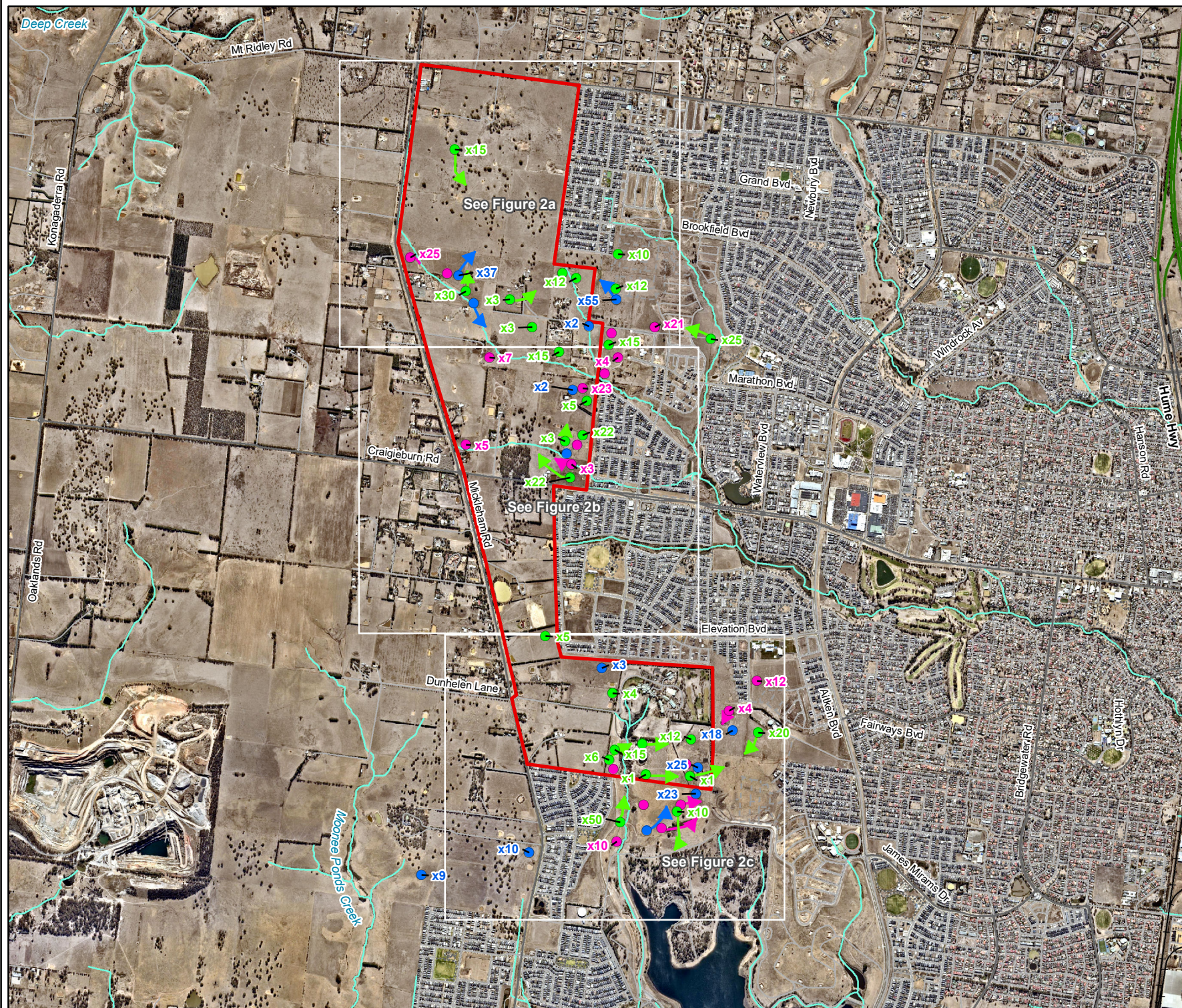
Figure 1

Location of the study area
*Kangaroo Management Plan,
 Craigieburn West Precinct
 Structure Plan*



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14194_Fig01_StudyArea_fr12048 27/10/2020 melsley



Legend

 Study Area

Survey date:

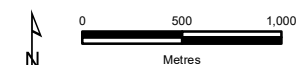
- Survey date: 04/06/2019
- Survey date: 05/06/2019
- Survey date: 06/06/2019

Survey date:

- Survey date: 04/06/2019
- Survey date: 05/06/2019
- Survey date: 06/06/2019

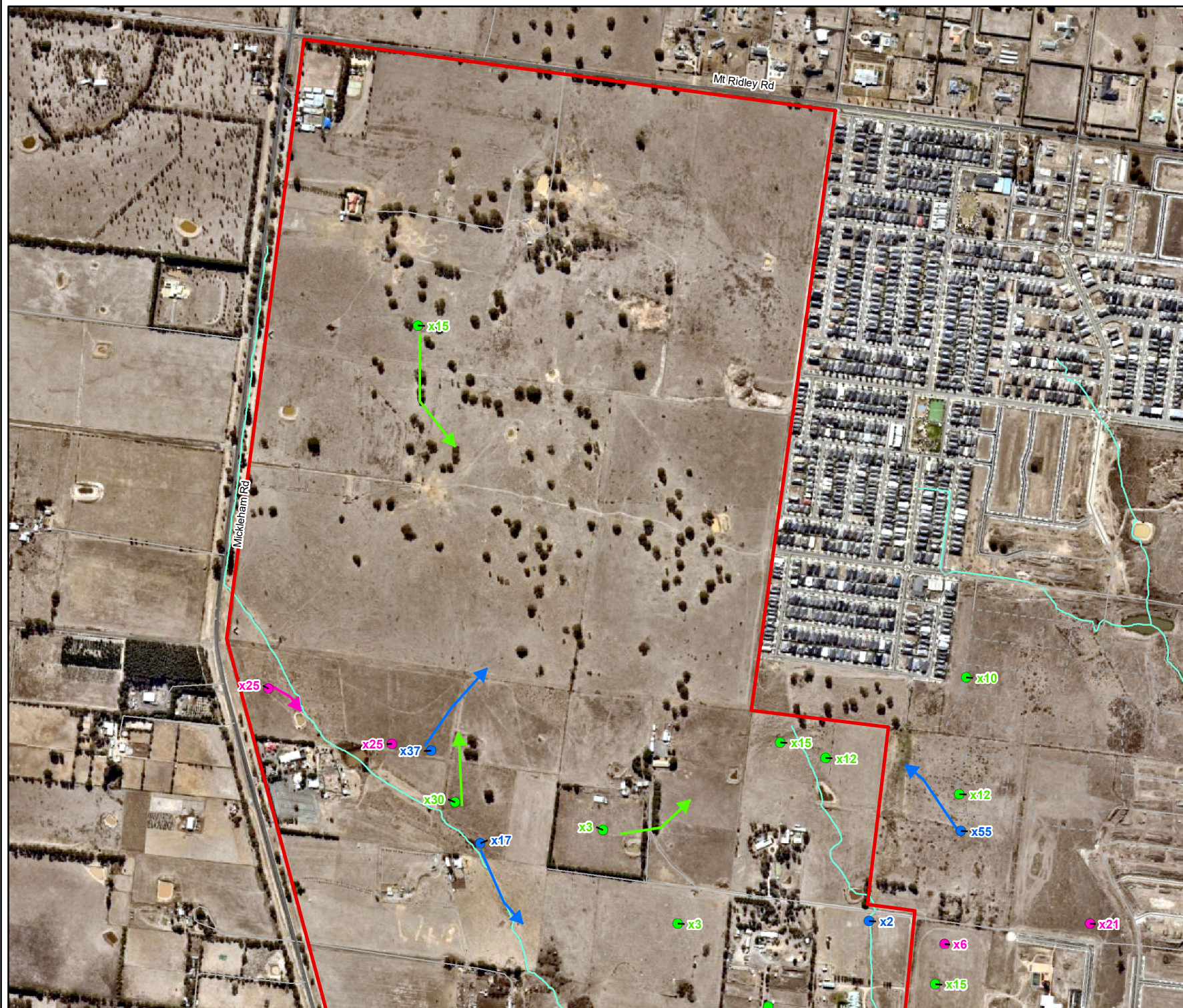


Figure 2 Overview
Kangaroo observations
Kangaroo Management Plan,
Craigieburn West Precinct
Structure Plan



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14194_Fig02_KangObs_MB_27/10/2020_melsley



Legend

Study Area

Survey date:

- Survey date: 04/06/2019
- Survey date: 05/06/2019
- Survey date: 06/06/2019

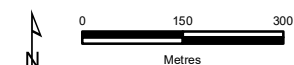
Survey date:

- Survey date: 04/06/2019
- Survey date: 05/06/2019
- Survey date: 06/06/2019



Figure 2a

Kangaroo observations
Kangaroo Management Plan,
Craigieburn West Precinct
Structure Plan



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14194_Fig02_KangObs_MB_27/10/2020_melsley



Legend

Study Area

Survey date:

- Survey date: 04/06/2019
- Survey date: 05/06/2019
- Survey date: 06/06/2019

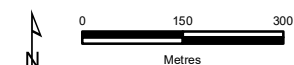
Survey date:

- ➔ Survey date: 04/06/2019
- ➔ Survey date: 06/06/2019



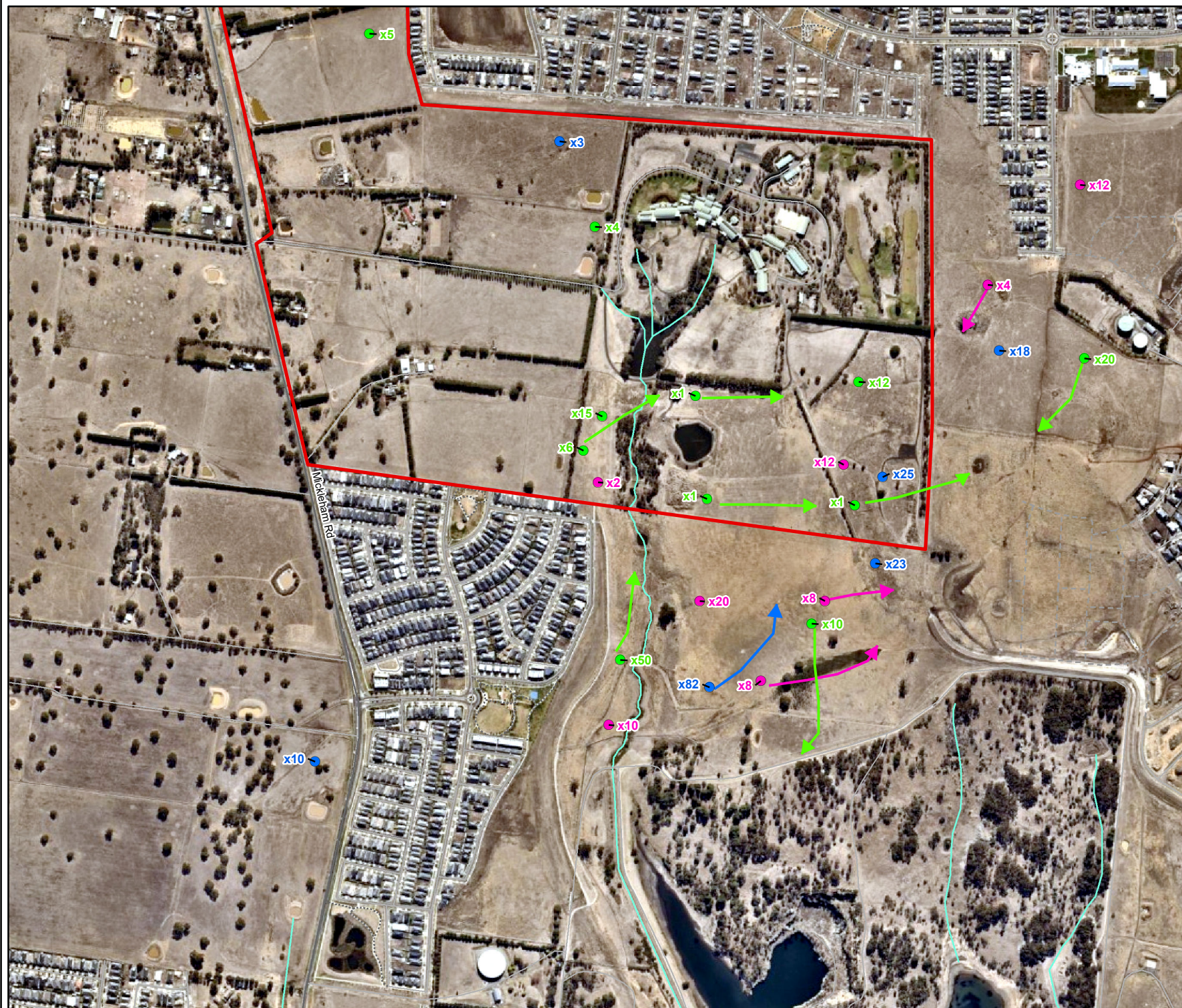
Figure 2b

Kangaroo observations
Kangaroo Management Plan,
Craigieburn West Precinct
Structure Plan



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Legend

Study Area

Survey date:

- Survey date: 04/06/2019
- Survey date: 05/06/2019
- Survey date: 06/06/2019

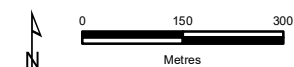
Survey date:

- ➔ Survey date: 04/06/2019
- ➔ Survey date: 05/06/2019
- ➔ Survey date: 06/06/2019



Figure 2c

Kangaroo observations
Kangaroo Management Plan,
Craigieburn West Precinct
Structure Plan



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