LAKE MUNMORAH Structure plan report

PREPARED FOR DARKINJUNG LOCAL ABORIGINAL LAND COUNCIL 21 FEB 2020





INTRODUCTION

INTERIM DARKINJUNG DEVELOPMENT DELIVERY PLAN

In 2019, the State Environmental Planning Policy (Aboriginal Lands) 2019 (AL SEPP) was gazetted to enhance the NSW Planning System's ability to facilitate social and economic outcomes for the Aboriginal Community. The AL SEPP requires that a development delivery plan be prepared for land to which the SEPP applies. To fast track the first stage of the Darkinjung delivery pipeline, the NSW Department of Planning, Industry and Environment (DoPIE) (formerly the Department of Planning and Environment) prepared the Interim Darkinjung Development Delivery Plan (IDDDP) in February 2019. This IDDDP applies to four key sites being:

- Lake Munmorah
- Wallarah
- Somersby; and
- Kariong

WORK PROGRAM

The IDDDP identifies the matters to be resolved to allow the finalisation of the Planning Proposal (PP 2015 Wyong 002 01) (Lake Munmorah Planning Proposal) for low density residential subdivision and environmentally sensitive lands at 405-415 Pacific Highway, Lake Munmorah.

The IDDDP includes a work program which includes the following actions specific to Lake Munmorah site:

ACTION 1: EXHIBIT THE LAKE MUNMORAH PLANNING PROPOSAL

Responsibility: Central Coast Council assisted by the **Department of Planning and Environment**

This will require resolution of the following issues:

- Finalisation of the biodiversity impact assessment report
- Traffic network requirements clarified and agreed to with RMS and Central Coast Council
- Aboriginal Cultural Heritage investigations completed and addressed.
- Updated planning proposal with consideration of agency and internal council comments and amendment to the proposed rezoning boundary.

CURRENT STATUS

The Lake Munmorah Planning Proposal received Gateway Determination in February 2015 and is with Council for implementation. The Gateway Determination identified the requirement for additional information in relation to a range of matters prior to the Planning Proposal being placed on public exhibition.

PURPOSE OF THIS REPORT

This report summarises the investigations undertaken to inform the preparation of the Lake Munmorah Structure Plan

URBAN DESIGN PRINCIPLES 16 INDICATIVE STRUCTURE PLAN 17 PROPOSED ZONING 18 GREATER LAKE MUNMORAH STRUCTURE PLAN OVERLAY 19

KEY INSIGHTS

The structure planning for the Lake Munmorah site needs to address concerns on Biodiversity Conservation, Aboriginal Cultural Heritage and Traffic Movement and Circulation within and around the site.

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SECTION 2: SITE ANALYSIS

OVERVIEW 8 CONSOLIDATED CONSTRAINTS MAPPING 9

SECTION 3: INDICATIVE STRUCTURE PLAN

For ease of navigation, this report has been structured in three sections as follow:

SECTION 1: STRATEGIC PLANNING CONTEXT

CENTRAL COAST REGIONAL PLAN 2036 3 NORTH WYONG SHIRE STRUCTURE PLAN 2012 4 DRAFT GREATER LAKE MUNMORAH STRUCTURE PLAN 2019 5 **WYONG LEP 2013 7**

SECTION 1 STRATEGIC PLANNING CONTEXT

INTRODUCTION

The planning proposal for the Darkinjung Land Lake Munmorah site is informed by the strategic visioning and planning strategies developed by DPIE and Central Coast Council as outline by the following diagram.

NSW Department of Planning, Industry and Environment (DPIE)



Central Coast Council

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DRAFT GREATER **LAKE MUNMORAH STRUCTURE PLAN 2019** **DPE and Darkinjung LALC**

INTERIM DARKINJUNG DELIVERY PLAN 2019

DARKINJUNG -**LAKE MUNMORAH PLANNING PROPOSAL**

The following pages outlines the context analysis of the following strategic planning documents:

- Central Coast Regional Plan 2036 (CCRP 2036)
- North Wyong Shire Structure Plan 2012 (NWSSP 2012)
- Draft Greater Lake Munmorah Structure Plan 2019 (DGLMSP 2019)
- Wyong Local Environmental Plan 2013 (WLEP 2013)

CENTRAL COAST REGIONAL PLAN 2036

The CCRP 2036 establishes the strategic planning framework to deliver a prosperous and sustainable future for the Central Coast's current and future residents. It sets out a vision, goals, directions, and actions for the Central Coast Region.

The overarching goals of the Regional Plan are to plan for:

- Goal 1: A prosperous Central Coast with more jobs close to home
- Goal 2: Protect the natural environment and manage the use of agricultural and resource lands
- Goal 3: Well-connected communities and attractive lifestyles
- Goal 4: A variety of housing choice to suit needs and lifestyles

The following key directions provided by the CCRP are relevant to the Lake Munmorah Site:

- Direction 6 Strengthen the economic self-determination of Aboriginal communities
- Direction 8 Recognise the cultural landscape of the Central Coast
- Direction 9 Protect and enhance productive agricultural land
- Direction 12 Protect and manage environmental values
- Direction 17 Align land use and infrastructure planning
- Direction 19 Accelerate housing supply and improve housing choice
- Direction 20 Grow housing choice in and around local centres
- Direction 21 Providing housing choice to meet community needs

KEY DIRECTIONS

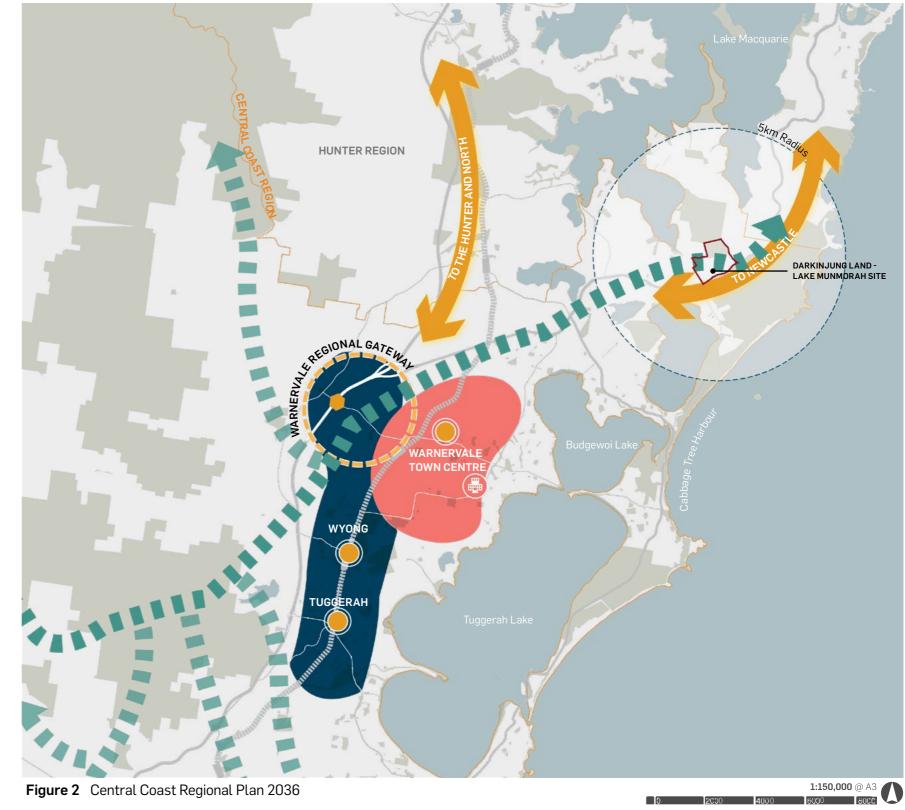
• The site has road frontage to Pacific Highway which is the inter regional connection between Warnervale and Newcastle

• A biodiversity corridor passes through the site.





- Rail Network
- **Biodiversity Corridor**
 - Inter-regional Connection Warnervale Wadalba Land Release Area
 - Regional Growth Corridor



NORTH WYONG SHIRE STRUCTURE PLAN 2012

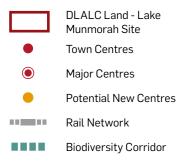
The North Wyong Structure Plan (NWSP) presents the outcome of the Central Coast Regional Plan which identified the areas planned for residential development and employment development.

The NWSSP has identified multiple precincts throughout the north eastern areas of Wyong LGA to identify land for regional greenfield housing and to protect significant environmental assets and landscape values

KEY DIRECTIONS

- The green corridor and habitat networks within the North Wyong Shire Structure Plan passes through the northern part of the site.
- The Structure Plan indicates that there is a need for additional residential and employment uses within the region to meet future demand. The Central Coast Council has subsequently prepared a Draft Greater Lake Munmorah Structure Plan to identify the locations for development to meet this demand.
- The planning for the Lake Munmorah site will need to leverage the opportunities to contribute towards the proposed green corridor and habitat networks, as well as the opportunity to offset vegetation losses through biodiversity credit.

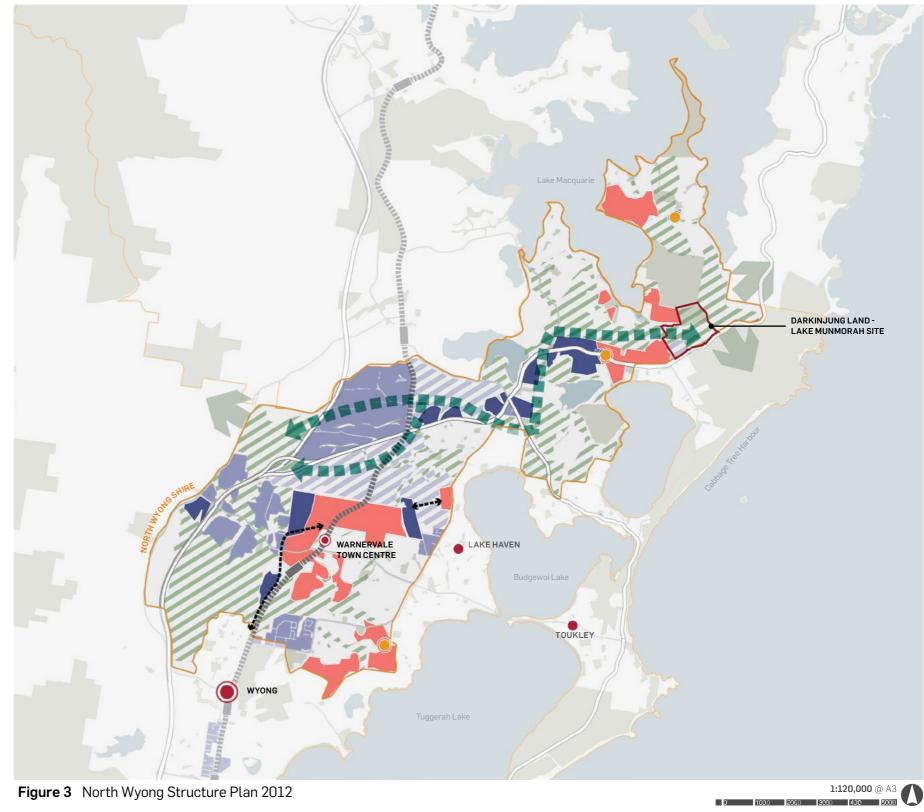
LEGEND





External Conservation Link

- Zoned Employment Areas Proposed Employment Area
- Strategically Located, Constrained Sites
- Proposed Residential Area
- Green Corridor and Habitat Network



DRAFT GREATER LAKE MUNMORAH STRUCTURE PLAN 2019

The Draft Greater Lake Munmorah Structure Plan (Draft Structure Plan) sets out to facilitate sustainable growth in the Greater Lake Munmorah Area (GLMA) over the next 30 years.

The Draft Structure Plan intends to build upon the directions set up in the North Wyong Shire Structure Plan (NWSSP). To accommodate the objective for sustainable growth, DGLMSP further divides the GLMA area into 10 precincts.

This structure plan identifies the need to accommodate the following items over the next 30 years.

- a potential additional 2,744 additional residential dwellings,
- 6,256 additional residents and
- 825 additional jobs

The structure plan intends to facilitate future local planning proposals and land zoning amendments that are consistent with the provided mapping.

The northern portion of DLALC owned land is identified as being a biodiversity corridor. The southwestern portion of the site is identified as low density residential development.

KEY DIRECTIONS

- A main road is proposed running east-west through the site connecting Chain Valley Bay Road and Carters Road.
- A new signalised intersection is proposed at the Pacific Highway and Chain Valley Bay Road intersection.
- Low density residential zones have been proposed to the southern part of Stage 1 site.
- A large portion of the overall site has been identified as environmental land biodiversity corridor consisting of:
- The northern part land between Chain Valley Bay Road and Carters Road, and
- All area between Chain Valley Bay Road and Kanangra Road.
- Two recreation land play spaces has been proposed at the central part west of Chain Valley Bay Road.
- Proposed low density residential uses have been identified in the southern portion of land between Carters Road and Chain Valley Bay Road

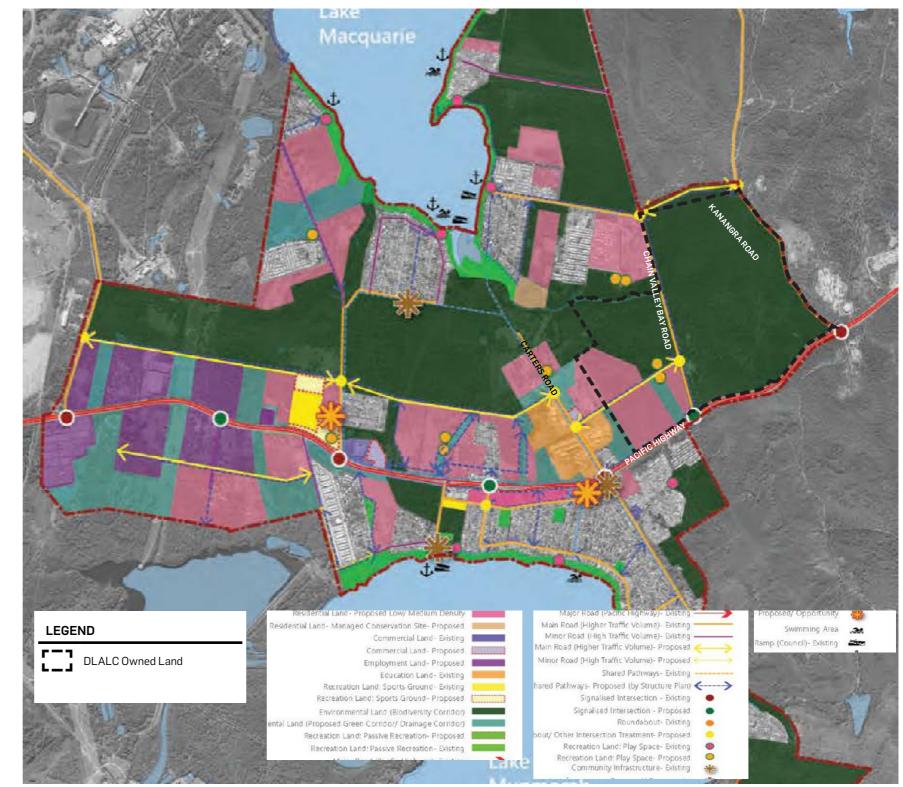


Figure 4 Draft Greater Lake Munmorah Structure Plan 2019

WYONG LOCAL ENVIRONMENTAL PLAN 2013 (WLEP 2013)

Land Zoning

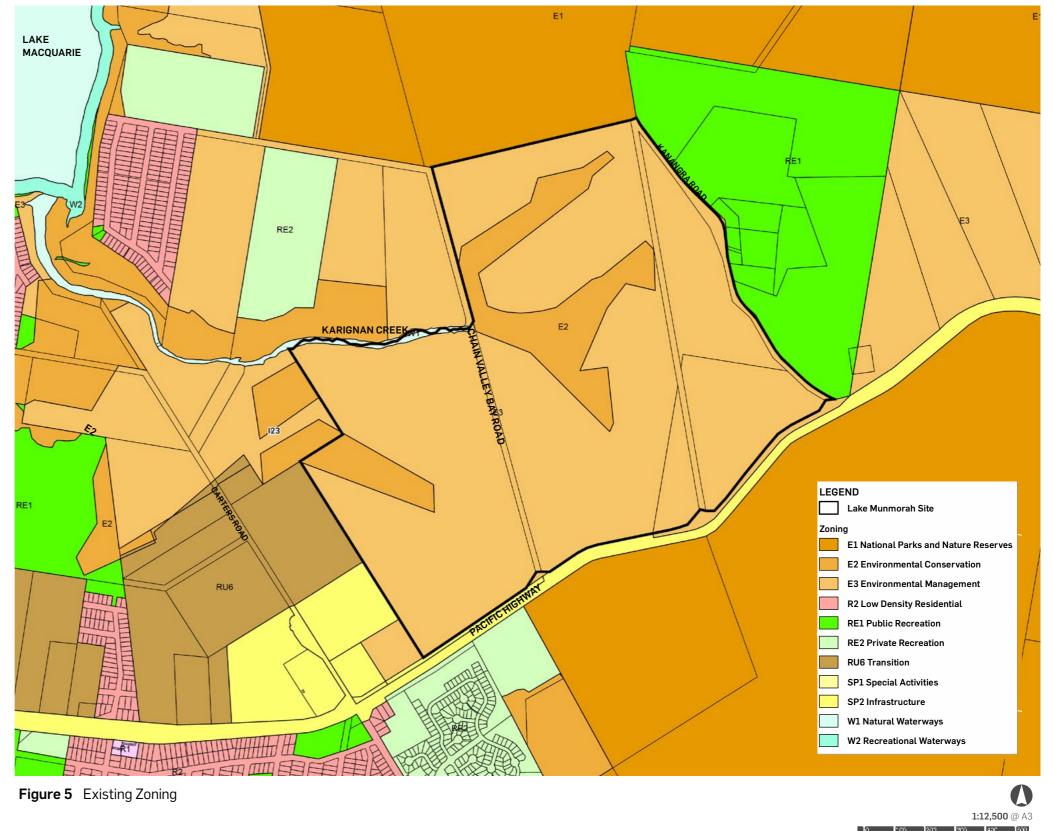
The 170.9ha DLALC Owned Land - Lake Munmorah Site is located at 405-415 Pacific Highway, Lake Munmorah.

The site is covered by the following zonings:

- Predominantly E3 Environmental Conservation
- Patches of E2 Environmental Conservation in the centre and west portion of the site; and

The site is surrounded by the following zonings:

- E1 National Parks and Nature Reserves t the north of the site and south of Pacific Highway;
- E3 Environmental Management and patches of E2 Environmental Conservation of to the east and northwest of the site;
- RE2 Private Recreation to the south west of the site;
- RU6 Transition and SP2 Infrastructure (School) to the west side of the site; and
- RE1 Public Recreation to the east of the site.



SECTION 2 SITE ANALYSIS

OVERVIEW

Council has advised the site area extent supported for rezoning within the DLALC owned land identified as Stage 1 Site illustrated below.

Remainder

Site (115.9ha)

DLALC owned

land (170.9ha)

The analysis of the site was undertaken to identify the opportunities and constraints for Stage 1 site. This considered:



 \sim

- 1. Riparian Corridor;
- 2. 1% AEP Flood Extent;
- 3. Biodiversity;

- 6. Topography and Slope.

- Structure Plan overlay
- **8.** Aboriginal Heritage

The Aboriginal Heritage assessment is currently being undertaken and not included in this analysis. The updated opportunities and constraints mapping is subject to the assessment completion by April 2020.

- categories, being:
- development can be undertaken
- and implementation of mitigation strategies.
- future development can be undertaken.

ENVIRONMENTAL CONSTRAINTS

4. Regional Biodiversity Corridor; 5. SEPP Coastal Management; and

DEVELOPMENT CONSTRAINTS

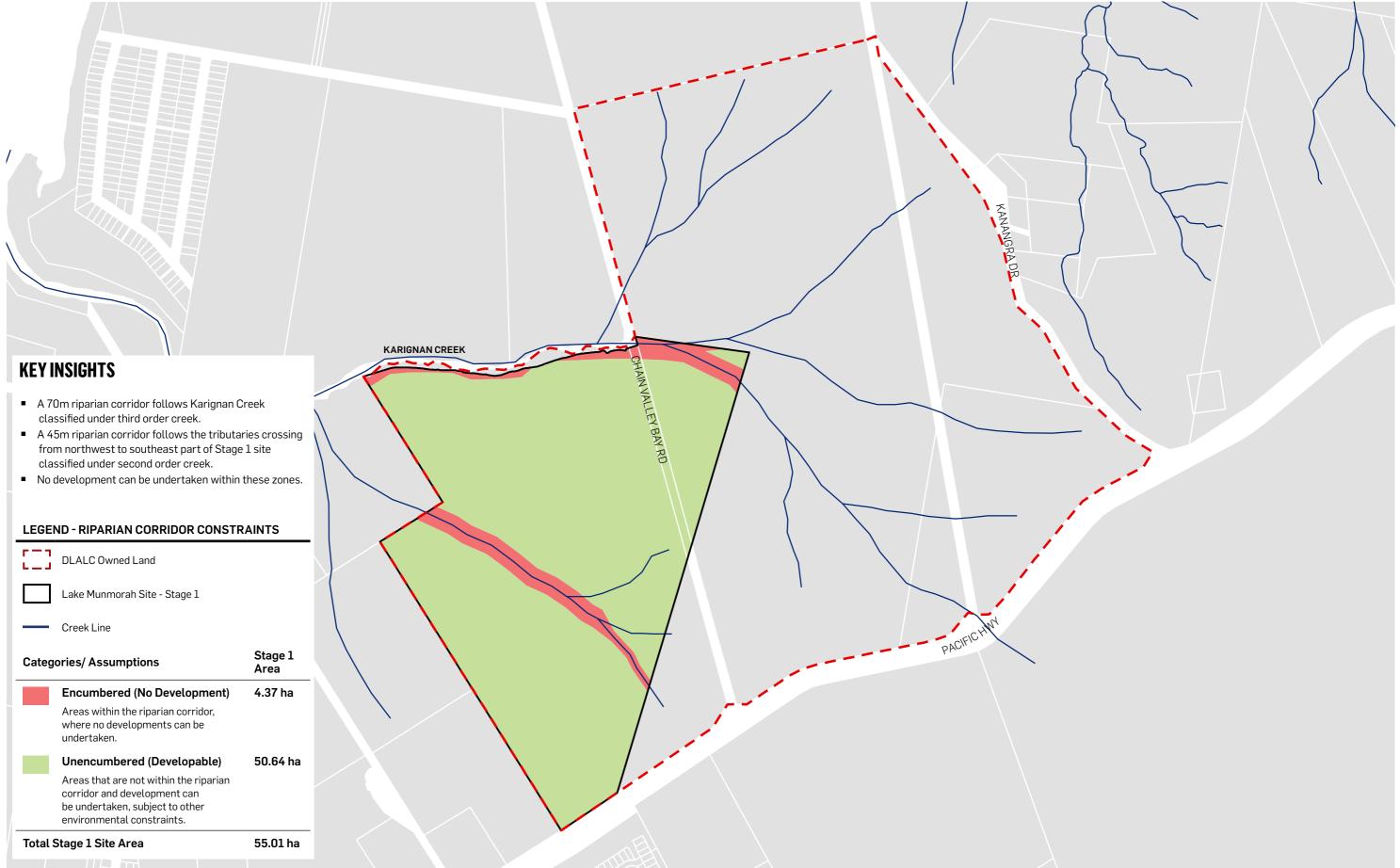
7. Land Zoning and Greater Lake Munmorah

For each of the constraints listed above, the site area has been classified under three

• Encumbered (No Development): Areas affected by constraints where no

• Encumbered (Mitigation Required): Areas affected by constraints that can be mitigated, where future development is possible subject to further investigation

• Unencumbered (Developable): Areas not affected by any constraints, where



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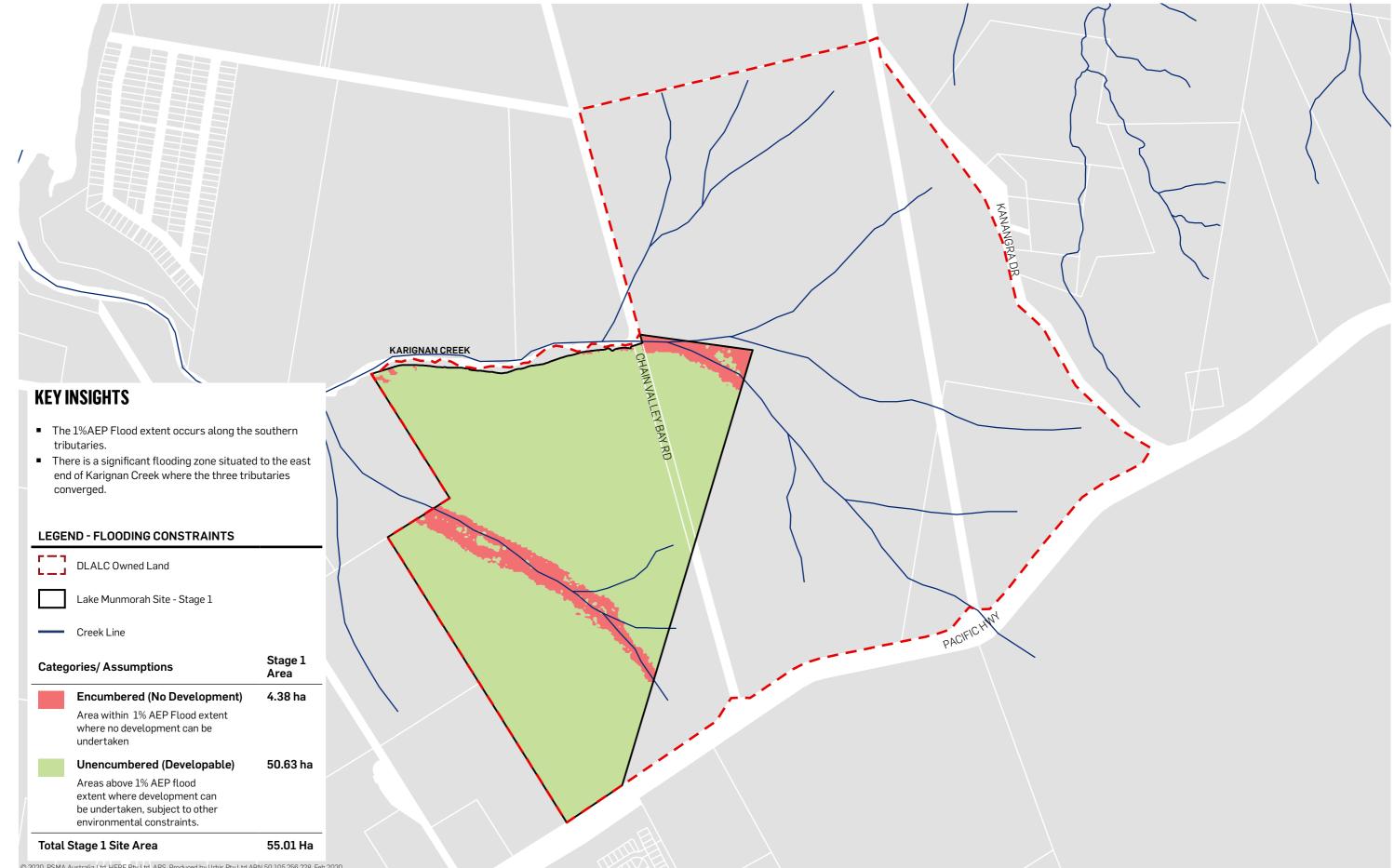
DARKINJUNG LOCAL ABORIGINAL LAND COUNCIL - LAKE MUNMORAH PLANNING PROPOSAL ENVIRONMENTAL CONSTRAINTS MAPPING - RIPARIAN CORRIDOR





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DARKINJUNG LOCAL ABORIGINAL LAND COUNCIL - LAKE MUNMORAH PLANNING PROPOSAL ENVIRONMENTAL CONSTRAINTS MAPPING - 1%AEC FLOOD EXTENT





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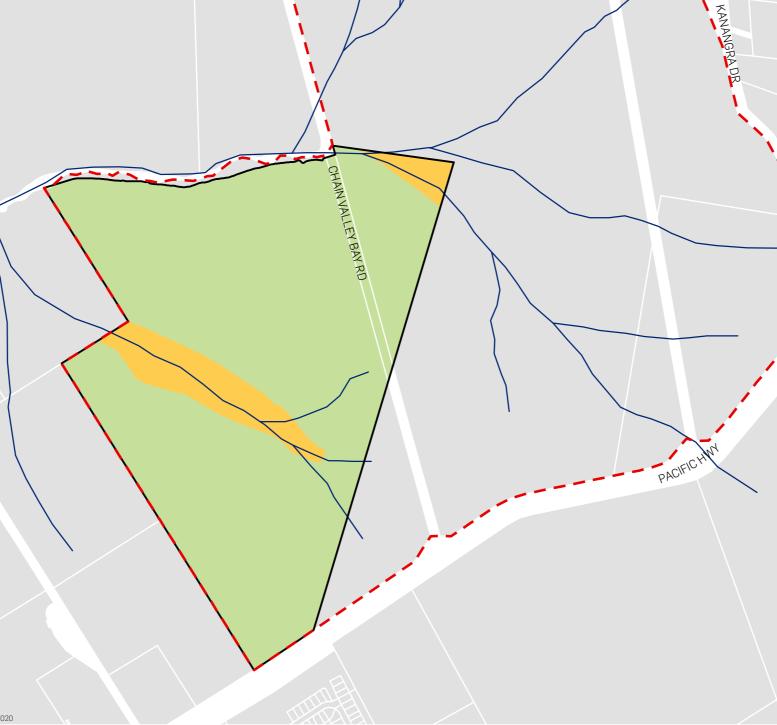


KEY INSIGHTS

 The two areas of Broad-leaved Paperbark - Swamp Mahogany - Swamp Oak - Saw Sedge swamp forest of the Central Coast and Lower North Coast has been identified as Ecological Endangered Community (EEC). These generally run along the existing water ways in the northwest to south east direction of $\ensuremath{\mathsf{Stage}\,1}\xspace$ site.

LEGEND - BIODIVERSITY CONSTRAINTS

[]]	DLALC Owned Land	
ш	Lake Munmorah Site - Stage 1	
Categ	Categories/ Assumptions	
	Encumbered (Mitigation Required)	4.97 ha
	Areas with Ecological Endangered Communities (EEC). Further investigation would be required to determine the extent that requires protection or mitigation prior to any future development.	
	Unencumbered (Developable)	50.05 ha
	Areas with no endangered species found, where future development can be undertaken.	
* This analysis has been based on GHD's Biodiversity Assessment. Further survey work is being undertaken by Umwelt		
Total Stage 1 Site Area 55.01 H		



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DARKINJUNG LOCAL ABORIGINAL LAND COUNCIL - LAKE MUNMORAH PLANNING PROPOSAL ENVIRONMENTAL CONSTRAINTS MAPPING - BIODIVERSITY







KEY INSIGHTS

- Approximately 50% of Stage 1 site is impacted by the Regional Biodiversity Corridor identified in the Greater Lake Munmorah Structure Plan.
- The indicative corridor covering all land owned by DLALC between Chain Valley Bay Road and Kanangra Road.
- An approximately 200m has been identified as the minimum width to the regional biodiversity corridor that occurs to the west of Stage 1 Site.
- The Ecological Consultant (Umwelt) has advised the proposed development footprint should not impacting the biodiversity corridor that results in less than this minimum width.

	DI ALC Owned Land	
	Lake Munmorah Site - Stage 1	
\square	Regional Biodiversity Corridor (Greater L Munmorah Structure Plan)	ake
Cate	gories/ Assumptions	Stage 1 Area
	Encumbered (No Development)	10.43 ha
	Areas within the 200m Regional Biodiversity Corridor width where no development can be undertaken	
	Encumbered (Mitigation Required)	21.25 ha
	Areas within the Regional Biodiversity Corridor where mitigation required to allow development.	
	Unencumbered (Developable)	23.34 ha
	Areas outside the Regional Biodiversity Corridor where development can be undertaken	
	Stage 1 Site Area	55.01 Ha





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KEY INSIGHTS

• The northern and northeast portion of Stage 1 site area are within SEPP Coastal Management -Environmental Area where mitigation required prior to any development to determine the extent that requires protection.

LEGEND - SEPP COASTAL MANAGEMENT

Г — DLALC Owned Land L - J

Lake Munmorah Site - Stage 1

 $\langle \rangle$ SEPP Coastal Management - Environmental Area

Categories/ Assumptions		Stage 1 Area
	Encumbered (Mitigation Required)	9.31 ha
	Areas within Coastal Management - Environmental Area. Further investigation would be required to determine the extent that requires protection or mitigation prior to any future development.	
	Unencumbered (Developable)	45.70 ha
	Areas with no endangered species found, where future development can be undertaken.	

Total Stage 1 Site Area

55.01 Ha



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DARKINJUNG LOCAL ABORIGINAL LAND COUNCIL - LAKE MUNMORAH PLANNING PROPOSAL **ENVIRONMENTAL CONSTRAINTS MAPPING**

AIN VALLEY BAY RD



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DARKINJUNG LOCAL ABORIGINAL LAND COUNCIL - LAKE MUNMORAH PLANNING PROPOSAL

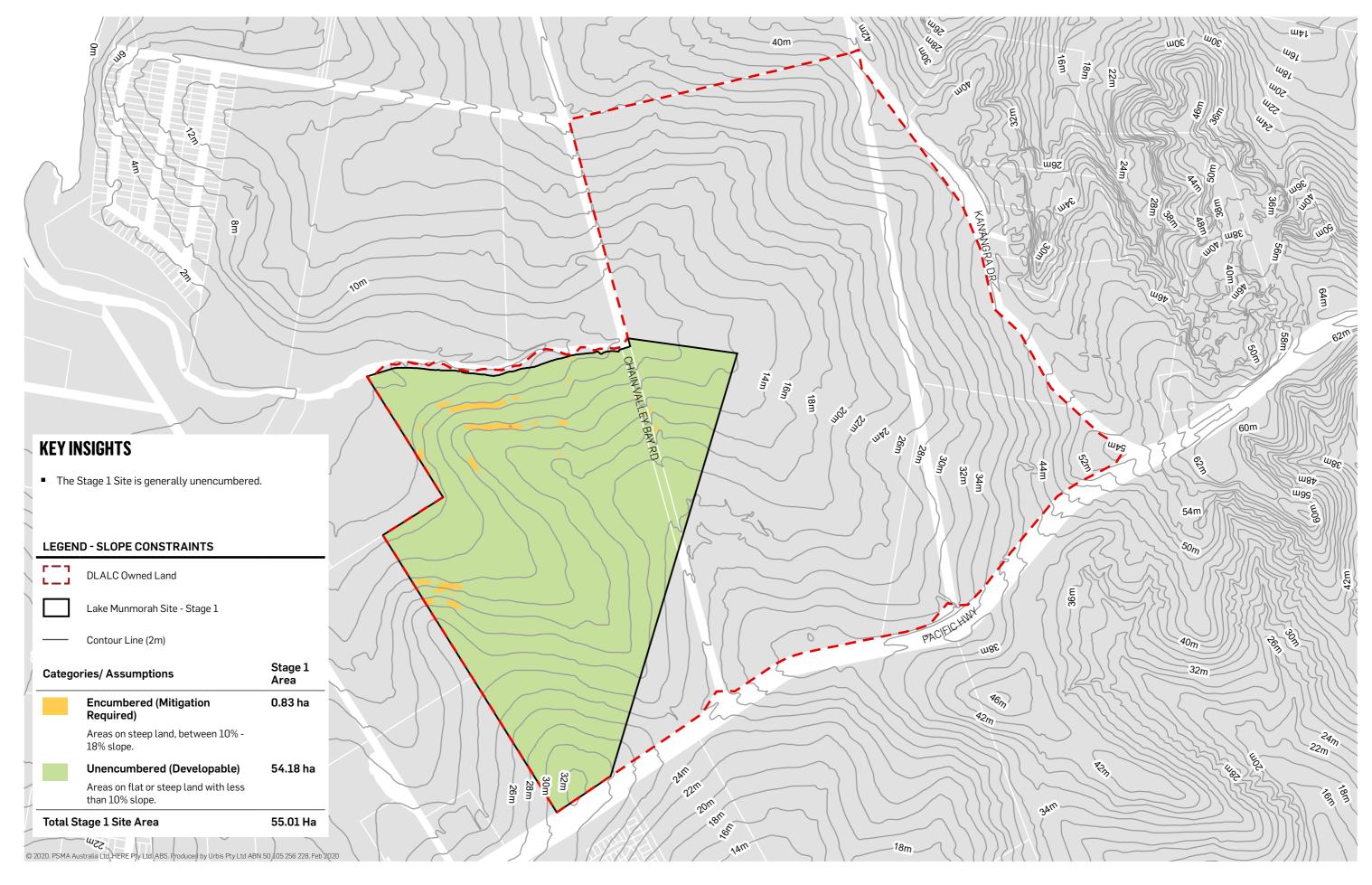
ENVIRONMENTAL CONSTRAINTS MAPPING - LAND ZONING AND DRAFT GREATER LAKE MUNMORAH STRUCTURE PLAN OVERLAY

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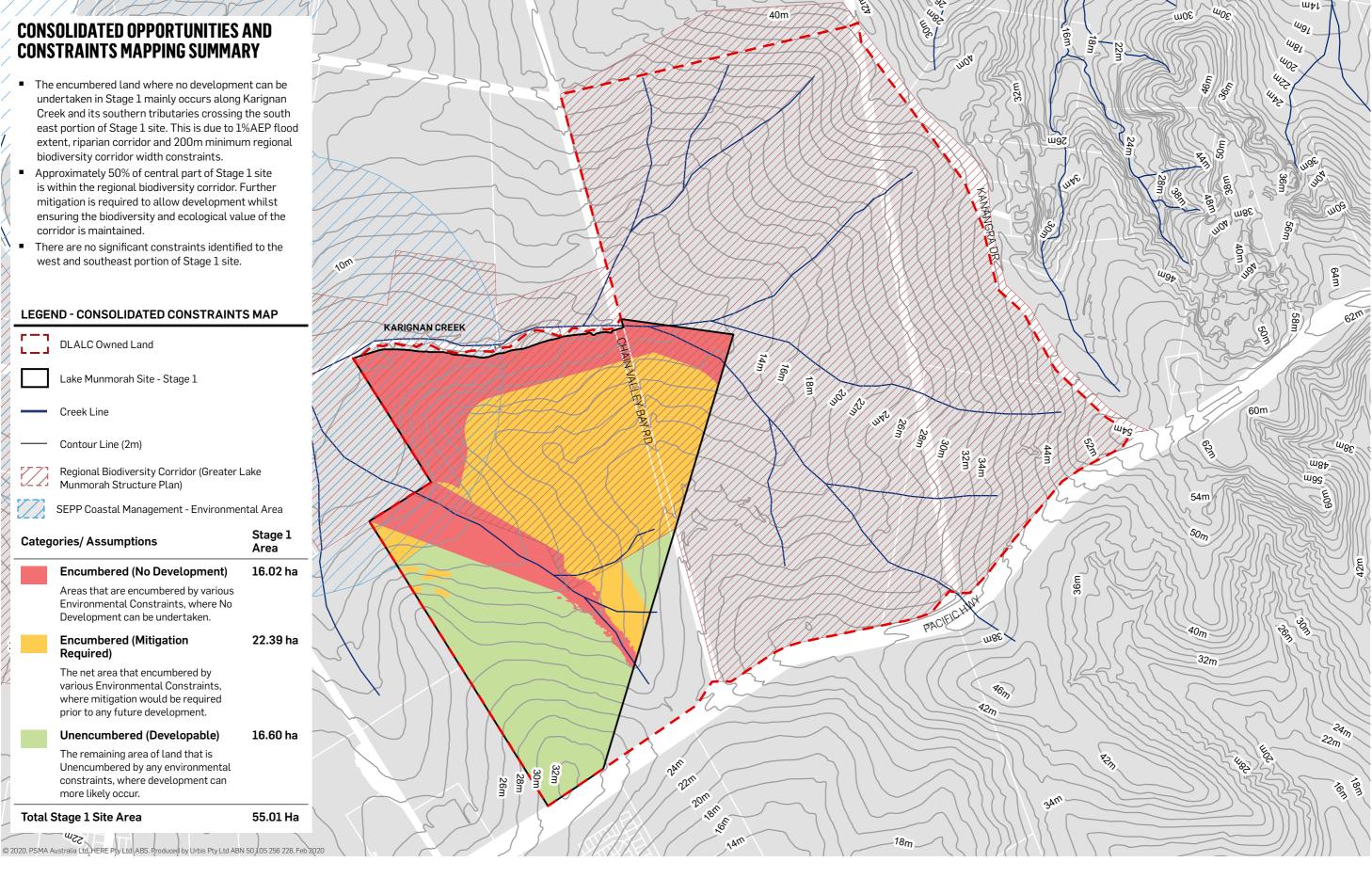


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- The encumbered land where no development can be undertaken in Stage 1 mainly occurs along Karignan Creek and its southern tributaries crossing the south east portion of Stage 1 site. This is due to $1\% {\sf AEP}$ flood extent, riparian corridor and 200m minimum regional
- is within the regional biodiversity corridor. Further mitigation is required to allow development whilst





DARKINJUNG LOCAL ABORIGINAL LAND COUNCIL - LAKE MUNMORAH PLANNING PROPOSAL CONSOLIDATED OPPORTUNITIES AND CONSTRAINTS MAP



SECTION 3 INDICATIVE **STRUCTURE PLAN**

The following pages present an indicative structure plan and proposed zoning for the subject site, as informed by the technical investigation. This includes:

- Urban Design Principles;
- Indicative Structure Plan;
- Proposed Land Zoning; and
- Draft Greater Lake Munmorah Structure Plan Biodiversity Corridor Overlay

URBAN DESIGN PRINCIPLES

The structure plan has been guided by three main urban design principles:



NATURAL SETTING AND GREEN AMENITIES

- Leverage the location of the site along the regional biodiversity corridor and riparian corridors that exist within the site as part of the open space network linking the surrounding residential communities.
- Maintain the biodiversity corridor to the north of Stage 1 site by providing the similar minimum width of an approx. 200m that occurs to the west of the site .
- Provides a centralised active recreational open space that is accessible from the surrounding communities.



ACCESSIBILITY AND INTERCONNECTIVITY

- Provide road connection between Chain Valley Bay Road and Carters Road, including the schools located at the west of the site.
- Provide active transport connection between St. Brendan's Lake Munmorah school and the residential communities through green linkages that includes pedestrian, cycleway and potential shuttle bus service.



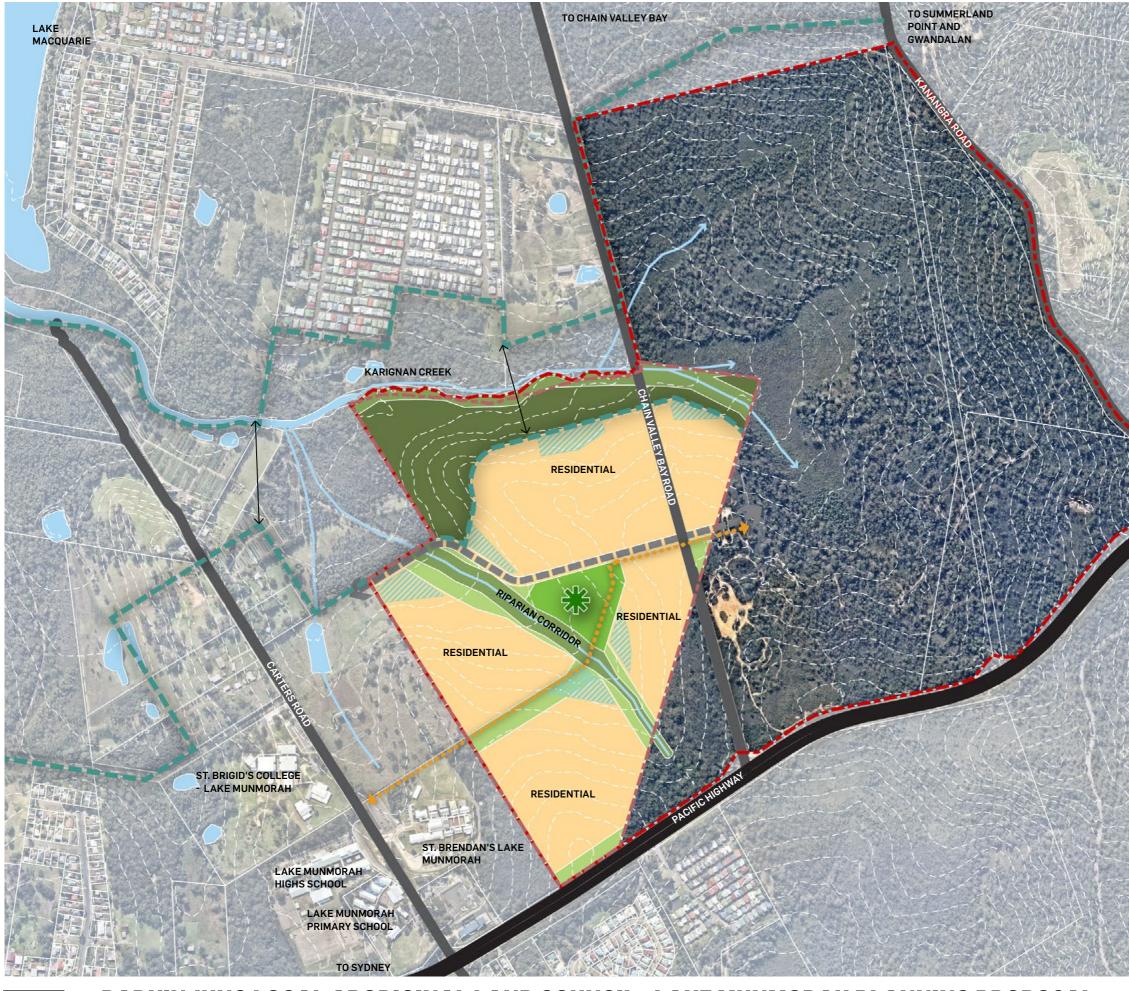
LEGIBLE RESIDENTIAL COMMUNITIES

Provide four distinctive residential neighbourhoods.

DEVELOPMENT ASSUMPTIONS

- Minimum lot size of 450 sqm
- 70% residential development efficiency.
- Minimum open space ratio of 1.8ha/ 200 dwellings

The structure plan has been developed based on the following assumptions:



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DARKINJUNG LOCAL ABORIGINAL LAND COUNCIL - LAKE MUNMORAH PLANNING PROPOSAL INDICATIVE STRUCTURE PLAN

LEGEND:

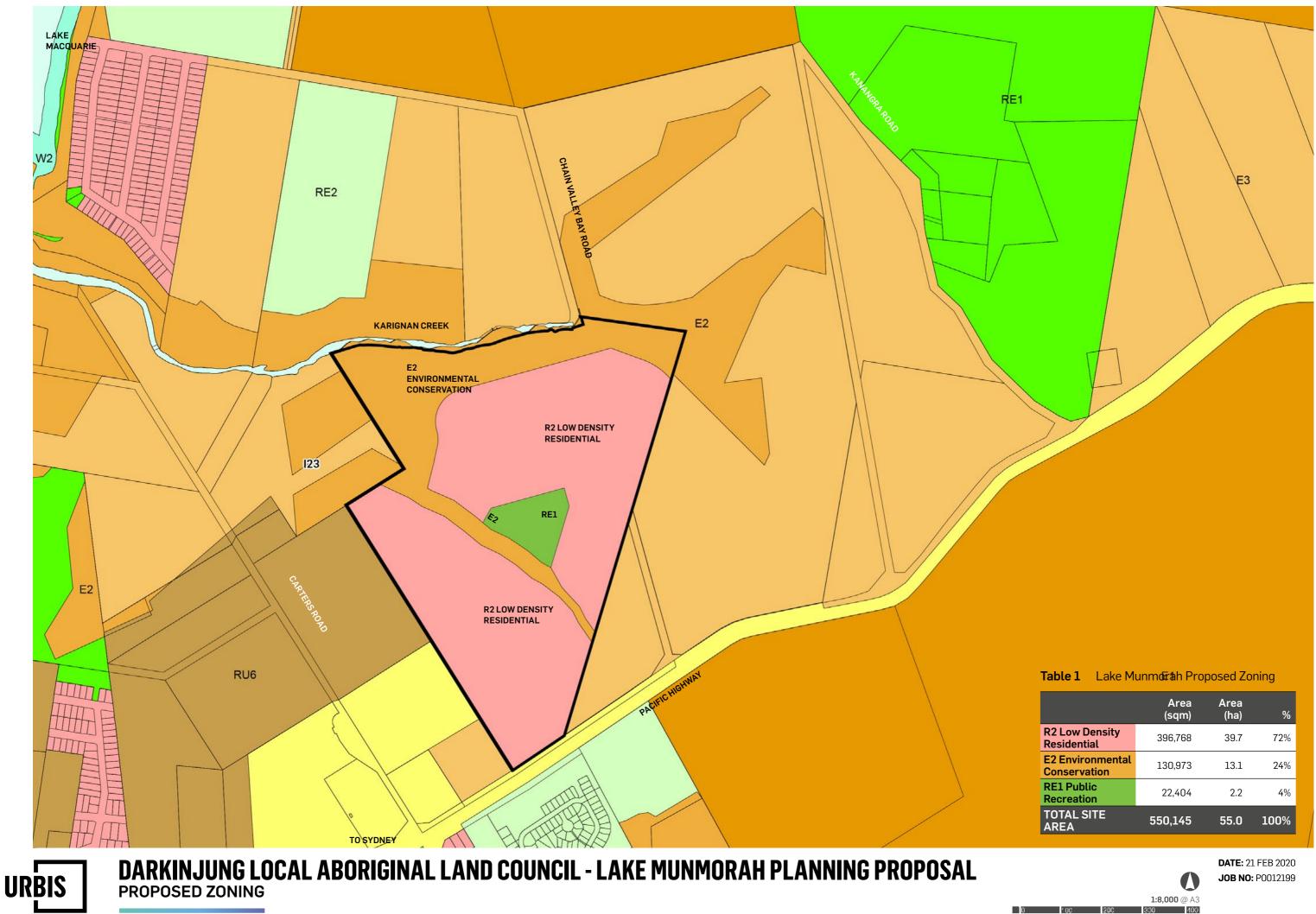
		Area	
	Darkinjung LALC Owned Land		
0	Stage 1 Site Boundary	55.0 ha	
	Low Density Residential	34.0 ha	
	Riparian Corridor	4.2 ha	
	Biodiversity Corridor	8.5 ha	
畿	Active Recreational Open Space	2.2 ha	
	Open Space/ Green Link	3.6 ha	
	Indicative Detention Basin Location		
_	Water Body		
	Arterial Road		
	Collector Road		
	Proposed Secondary Collector Road		
•••	Proposed Active Transport Corridor (pedestrian and cycleway)		
	Proposed Biodiversity Corridor adjustment (Greater Lake Munmorah Structure Plan)		
INDICATIVE YIELD			
Resid	ential Lot	470	
Minim	num Lot Size	450sqm	
Open space provision (excludes riparian and biodiversity 5.8 ha corridors)			

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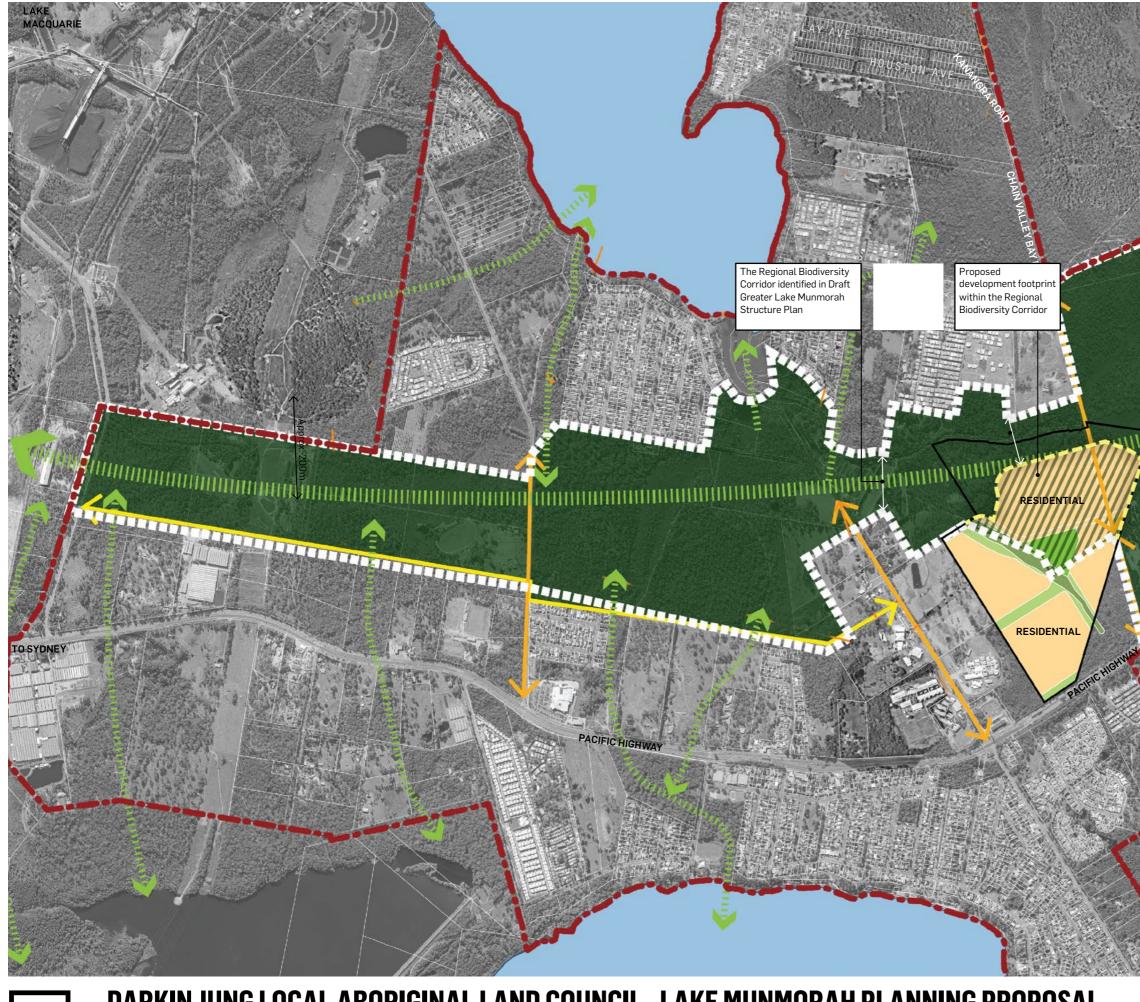
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	Area (sqm)	Area (ha)	%
R2 Low Density Residential	396,768	39.7	72%
E2 Environmental Conservation	130,973	13.1	24%
RE1 Public Recreation	22,404	2.2	4%
TOTAL SITE AREA	550,145	55.0	100%





DARKINJUNG LOCAL ABORIGINAL LAND COUNCIL - LAKE MUNMORAH PLANNING PROPOSAL DRAFT GREATER LAKE MUNMORAH STRUCTURE PLAN OVERLAY

LEGEND:

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- Ξ. Site Boundary (55ha)
 - Low Density Residential
 - **Riparian Corridor**
 - Active Recreational Open Space
 - Open Space/ Green Link
- Biodiversity Corridor (Greater Lake Munmorah Structure Plan) Proposed Development Footprint within **Biodiversity Corridor** Biodiversity Connections Existing Main Road
 - Proposed Main Road

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