

Camden Council Attachments

Ordinary Council Meeting 28 March 2017

> Camden Council Administration Centre 70 Central Avenue Oran Park



ORDINARY COUNCIL

ATTACHMENTS - ORDINARY COUNCIL

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Details of Conditions:

1.0 - General Conditions of Consent

The following conditions of consent are general conditions applying to the development.

(1) Approved Plans and Documents - Development shall be carried out in accordance with the following plans and documentation, and all recommendations made therein, except where amended by the conditions of this development consent:

Plan Reference/ Drawing No.	Name of Plan	Prepared by	Date
Red S2719- 72000-B8 Revision D	Plan of Proposed Subdivision for Lot 1 in DP 798823 at Macarthur & Springs Road, Spring Farm	Burton & Field Surveying & Land Development	10 February 2017
Dwg No. 000 Issue A2	Cover Sheet and Locality Plan	Umbrella Civil Consulting	22 February 2017
Dwg No. 001 Issue A2	Existing Services and Demolition Plan	Umbrella Civil Consulting	22 February 2017
Dwg No. 100 Issue A2	Concept Erosion and Sediment Control plan	Umbrella Civil Consulting	22 February 2017
Dwg No. 101 Issue A2	Erosion and Sediment Control Standard Details	Umbrella Civil Consulting	22 February 2017
Dwg No. 200 Issue A2	Concept Bulk Earthworks Layout Plan	Umbrella Civil Consulting	22 February 2017
Dwg No. 201 Issue A2	Bulk Earthworks Sections	Umbrella Civil Consulting	22 February 2017
Dwg No. 300 Issue A2	Concept Roadworks and Drainage Layout Plan, Road 1 Longitudinal Section and Typical Cross Section	Umbrella Civil Consulting	22 February 2017
Dwg No. 301 Issue A2	Concept Road 1 Cross Sections	Umbrella Civil Consulting	22 February 2017
Dwg No. 400 Issue A2	Bio-Retention Basin Layout Plan and Details	Umbrella Civil Consulting	22 February 2017
Dwg No. 500 Issue A2	Concept Stormwater Catchment Plan	Umbrella Civil Consulting	22 February 2017
Dwg No. 501 Issue A2	Concept Stormwater	Umbrella Civil Consulting	22 February 2017

	Longitudinal Sections Sheet 1 of 2		
Dwg No. 502 Issue A2	Concept Stormwater Longitudinal Sections Sheet 2 of 2	Umbrella Civil Consulting	22 February 2017
Dwg No. 200 Rev A	Landscape Notes and Legend	Indesco	5 April 2016
Dwg No. 210 Rev B	Landscape Plan	Indesco	23 February 2017
Dwg No. 220 Rev A	Landscape Details Plan	Indesco	5 April 2016
Job no. 151119 Sheet 1 of 2	Plan Showing Detail & Levels Over Lot 1 in DP 798823	Total Surveying Solutions	5 November 2015
Job no. 151119 Sheet 2 of 2	Plan Showing Detail & Levels Over Lot 1 in DP 798823	Total Surveying Solutions	5 November 2015

Document Title	Prepared by	Date
Road Traffic Noise Impact Assessment, Report R150574R1, Rev 2	Rodney Stevens Acoustics	22 November 2016
Aboriginal Cultural Heritage Assessment Version 3	Street Archaeological Services	14 December 2016
Air Quality Impact Assessment Report STC-72-11509/AIR1 V1	ADE Consulting Group	7 December 2016
Site Based Stormwater Management Plan Issue 02	Umbrella Civil Consulting Engineers	9 September 2016
Remediation Action Plan Ref JC16259B-r1	Geo Enviro Consultancy Pty Ltd	19 August 2016
Traffic Impact Assessment	Hemanote Consultants	April 2016
Flora and Fauna Assessment Report, Rev A, Ref 302216	Envirotech	4 August 2016
Waste Management Plan Ref 307716	Envirotech	24 March 2016
Mine Subsidence Board Approval Ref FN00-04172PO	Mine Subsidence Board	5 April 2016
Heritage Impact Statement	Edwards Planning Town Planning and Heritage Consultants	April 2016

(2) Modified Documents and Plans - The development shall be modified as follows:

a) The landscape plans shall be amended to ensure that street trees in front of Lot 14 provide a clear collection point to cater for lots 9, 10, 11, 12 and 13 as per condition 1(5).

Amended plans or documentation demonstrating compliance shall be provided to the Certifying Authority and Council prior to the issue of a Construction Certificate.

(3) Local Traffic Committee Concurrence – Installation of or changes to regulatory signage, line marking and devices are subject to the concurrence of Council's Local Traffic Committee on local roads, and the Roads and Maritime Services on State roads.

These concurrences (as required) must be obtained prior to the installation of or any changes to regulatory signage, line-marking and devices.

- (4) Waste Bin Collection Points A waste bin collection point that is clear from the positioning of driveways, tree plantings (or tree canopies), street lighting or other fixtures must be provided for each approved lot. This area is to be 3 metres long x 0.9 metres wide and provide a 3.9 metre clear vertical space to allow for the truck-lifting arm.
- (5) Alternative Waste collection Waste collection for lots 9, 10, 11, 12 and 13 is to be provided on Lot 14. Sufficient space is to be provided to accommodate waste bins for these lots and no trees or infrastructure is provided in that area. Stop signs must be erected within the cul-de-sac to facilitate waste truck manoeuvring.
- (6) Engineering Specifications The entire development shall be designed and constructed in accordance with Council's Engineering Specifications and the relevant DCP.
- (7) Street Lighting Street lighting for the subdivision shall be designed and installed in accordance with relevant Australian Standards and to the satisfaction of the Roads Authority (Council).
- (8) Noxious Weeds Management The applicant must fully and continuously suppress and destroy by appropriate means, any noxious or environmentally invasive weed infestations that occur during or after works. New infestations must be reported to Council.

Pursuant to the *Noxious Weeds Act 1993*, the applicant must at all times ensure that any machinery, vehicles or other equipment entering or leaving the site are clean and free from any noxious weed material.

- (9) Aboriginal Objects Found during Works If any Aboriginal object (including evidence of habitation or remains) is discovered during the course of the work:
 - (a) All excavation or disturbance of the area must stop immediately in that area; and,
 - (b) The Office of Environment and Heritage must be advised of the discovery in accordance with Section 89A of the National Parks and Wildlife Act 1974.

Note: If an Aboriginal object is discovered, an Aboriginal Heritage Impact Permit may be required under the National Parks and Wildlife Act 1974.

(10) Remediation Works - All works proposed as part of the Remediation Action Plan that includes: remediation, excavation, stockpiling, onsite and offsite disposal, cut, backfilling, compaction, monitoring, validations, site management and security, health and safety of workers, must be undertaken on the site in accordance with the Remediation Action Plan titled "Remediation Action Plan Proposed Residential Subdivision Development Lot 1 in DP 798823, No 10 Springs Road, Spring Farm NSW Ref. JC16259B-r1' prepared by GeoEnviro Consultancy Pty Ltd and dated August 2016 EXCEPT AS STATED IN ANY OTHER CONDITION OF THIS CONSENT.

Any further variation or modification to the Remediation Action Plan in terms of compliance work or remediation work beyond what is contained in the approved RAP or conditions of this consent must be requested from the Consent Authority (Camden Council) in writing prior to works being undertaken. Significant variations may require additional consent approval.

- (11) Lot 14 This consent does not grant any approval for a child care centre on Lot 14.
- (12) Signage This consent does not grant any approval for any signage on Lot 19.

2.0 - Prior to Issue of a Construction Certificate

The following conditions of consent shall be complied with prior to the issue of a Construction Certificate.

(1) Civil Engineering Plans - Civil engineering plans indicating drainage, roads, accessways, earthworks, pavement design, details of line-marking, traffic management, water quality and quantity facilities including stormwater detention and disposal, shall be prepared in accordance with the approved plans and Council's Engineering Design and Construction Specifications. Details demonstrating compliance shall be provided to the Certifying Authority with the Construction Certificate application.

Note. Under the *Roads Act 1993*, only the Roads Authority can approve commencement of works within an existing road reserve.

- (2) Dilapidation Report Council Property A Dilapidation Report prepared by a suitably qualified person, including a photographic survey of existing public roads, kerbs, footpaths, drainage structures, street trees and any other existing public infrastructure within the immediate area of the subject site. Details demonstrating compliance shall be provided to the Certifying Authority prior to issue of a Construction Certificate.
- (3) Traffic Management Plan A Traffic Management Plan (TMP) shall be prepared in accordance with Council's Engineering Specifications and AS 1742.3. Details demonstrating compliance shall be provided to the Certifying Authority with the Construction Certificate application.
- (4) Turning Facilities Turning facilities shall be provided at all dead end roads. All turning and manoeuvring facilities, including turning heads, cul-de-sac, etc, shall be designed in accordance with Council's Engineering Specifications.
- (5) Retaining Walls All retaining walls shall be designed and certified by a suitably qualified structural engineer, in accordance with Council's Engineering Specifications.

- **ORD01**
- (6) Easement Creation Drainage easements shall be obtained over downstream properties where drains for the disposal of stormwater are located across lands owned by others (and where the drainage is not within a water course). The width of the drainage easement/s shall be in accordance with Council's Engineering Specifications. Details demonstrating compliance shall be provided to Council with the Construction Certificate application.

The easement shall be registered with the NSW Land & Property Information prior to the issue of an Occupation Certificate.

(7) Stormwater Detention and Water Quality - An on-site detention system and water quality system shall be provided for the site and designed in accordance with Council's Engineering Specifications.

A detailed on-site detention and water quality report reflecting the Construction Certificate plans shall be provided to the Certifying Authority with the Construction Certificate application.

- (8) Soil, Erosion, Sediment and Water Management An erosion and sediment control plan shall be prepared in accordance with Council's Engineering Specifications. Details demonstrating compliance shall be provided to the Certifying Authority with the Construction Certificate application.
- (9) Archival Recording An archival record of the existing building shall be completed and provided to the Certifying Authority and Council for the following properties:
 - a) 10 Springs Road, Spring Farm.

The recording shall be in accordance with the NSW Heritage Office guidelines "Photographic Recording of Heritage Items using Film or Digital Capture" (2006) (or as amended).

- (10) Cycle and Pedestrian Paths Cycle and pedestrian connections shall fully comply with the requirements of the Spring Farm Masterplan. Details demonstrating compliance shall be provided to the Certifying Authority prior to the issue of a Construction Certificate.
- (11) Section 94 Contributions Works In Kind Section 94 contributions may be in the form of carrying out works as part of a 'Works in Kind' agreement with Council in lieu of making monetary contributions. Works in Kind to be carried out shall be agreed to by Council in writing prior to the payment of the contributions and issue of a Construction Certificate (related to the works in kind work). All such agreements shall be in accordance with Council's Works In Kind Policy.
- (12) Half Width Road Construction on Macarthur Road Half width road construction and dedication is required to be undertaken in accordance with Camden Council's current Engineering Design Specifications.
- (13) Overhead Power lines to be relocated underground Prior to the issue of a construction certification details shall be shown on the construction certificate plans to clearly illustrate that the new kerb and gutter on Macarthur Road will not encroach upon the existing power poles. Should the location of the new kerb and gutter conflict with the existing power pole, proof is required to be submitted to demonstrate that

satisfactory agreement with Council has been reached with regards to the relocation of overhead power lines and associated power poles to underground infrastructure.

3.0 - Prior to Commencement of Works

The following conditions of consent shall be complied with prior to any works commencing on the development site.

- (1) Public Liability Insurance The owner or contractor shall take out a Public Liability Insurance Policy with a minimum cover of \$20 million in relation to the occupation of, and works within, public property (i.e. kerbs, gutters, footpaths, walkways, reserves, etc) for the full duration of the proposed works. Evidence of this Policy shall be provided to Council and the Certifying Authority.
- (2) Notice of PCA Appointment Notice shall be given to Council at least two (2) days prior to subdivision and/or building works commencing in accordance with Clause 103 of the EP&A Regulation 2000. The notice shall include:
 - a) a description of the work to be carried out;
 - b) the address of the land on which the work is to be carried out;
 - c) the registered number and date of issue of the relevant development consent;
 - the name and address of the PCA, and of the person by whom the PCA was appointed;
 - e) if the PCA is an accredited certifier, his, her or its accreditation number, and a statement signed by the accredited certifier consenting to being appointed as PCA; and
 - f) a telephone number on which the PCA may be contacted for business purposes
- (3) Notice Commencement of Work Notice shall be given to Council at least two (2) days prior to subdivision and/or building works commencing in accordance with Clause 104 of the EP&A Regulation 2000. The notice shall include:
 - a) the name and address of the person by whom the notice is being given;
 - b) a description of the work to be carried out;
 - c) the address of the land on which the work is to be carried out;
 - d) the registered number and date of issue of the relevant development consent and construction certificate;
 - a statement signed by or on behalf of the PCA to the effect that all conditions of the consent that are required to be satisfied prior to the work commencing have been satisfied; and
 - f) the date on which the work is intended to commence.
- (4) Construction Certificate Required In accordance with the provisions of Section 81A of the EP&A Act 1979, construction or subdivision works approved by this consent shall not commence until the following has been satisfied:

- a) a Construction Certificate has been issued by a Certifying Authority;
- a Principal Certifying Authority (PCA) has been appointed by the person having benefit of the development consent in accordance with Section 109E of the EP&A Act 1979;
- c) if Council is not the PCA, Council is notified of the appointed PCA at least two (2) days before building work commences;
- the person having benefit of the development consent notifies Council of the intention to commence building work at least two (2) days before building work commences; and
- e) the PCA is notified in writing of the name and contractor licence number of the owner/builder intending to carry out the approved works.
- (5) Sign of PCA and Contact Details A sign shall be erected in a prominent position on the site stating the following:
 - a) that unauthorised entry to the work site is prohibited;
 - the name of the principal contractor (or person in charge of the site) and a telephone number on which that person can be contacted at any time for business purposes and outside working hours; and
 - c) the name, address and telephone number of the PCA.

The sign shall be maintained while the work is being carried out, and shall be removed upon the completion of works.

(6) Performance Bond - Prior to commencement of works a performance bond of \$5000 must be lodged with Camden Council in accordance with Camden Council's Engineering Construction Specifications.

Note - An administration fee is payable upon the lodgement of a bond with Council.

(7) Soil Erosion and Sediment Control - Soil erosion and sediment controls must be implemented prior to works commencing on the site in accordance with 'Managing Urban Stormwater – Soils and Construction ('the blue book') and any Sediment and Erosion plans approved with this development consent.

Soil erosion and sediment control measures shall be maintained during construction works and shall only be removed upon completion of the project when all landscaping and disturbed surfaces have been stabilised (for example, with site turfing, paving or re-vegetation).

- (8) Demolition Work Consent is granted for the demolition of the existing structures currently existing on the property, subject to compliance with the following conditions:
 - a) The developer shall notify adjoining residents of demolition works seven (7) working days prior to demolition. Such notification is to be clearly written on A4 size paper giving the date demolition will commence and be placed in the letterbox of every premises (including every residential flat or unit, if any)

either side, immediately at the rear of, and directly opposite, the demolition site;

- Prior to demolition, the applicant shall erect a sign at the front of the property with the demolisher's name, licence number, contact phone number and site address;
- c) Prior to demolition, the applicant shall erect a 1.8m high temporary fence and hoarding between the work site and any public property (footpaths, roads, reserves etc). Access to the site shall be restricted to authorised persons only and the site shall be secured against unauthorised entry when work is not in progress or when the site is otherwise unoccupied;
- Suitable erosion and sediment control measures in accordance with an approved erosion and sediment control plan shall be installed prior to the commencement of demolition works and shall be maintained at all times;
- e) A Work Plan prepared by a suitably qualified person in accordance with AS 2601 'Demolition of Structures' shall be provided to the PCA for approval prior to demolition works commencing. The Work Plan shall identify hazardous materials including surfaces coated with lead paint, method of demolition, the precautions to be employed to minimise any dust nuisance and the disposal methods for hazardous materials;
- f) If the property was built prior to 1987, an asbestos survey shall be carried out by a suitably qualified person prior to demolition. If asbestos is found, a WorkCover Authority licensed contractor shall remove all asbestos in accordance with the requirements of the WorkCover Authority, including notification of adjoining neighbours of asbestos removal;
- g) The burning of any demolished material on site is not permitted and offenders will be prosecuted; and
- h) Care shall be taken during demolition to ensure that existing services on the site (i.e. sewer, electricity, gas, phone, etc) are not damaged. Any damage caused to existing services is to be repaired by the relevant authority at the expense of the applicant.
- (9) Waste Management Plan Details of the collection contractor should be updated on the waste management plan prior to works commencing.

4.0 - During Works

The following conditions of consent shall be complied with during the construction phase of the development.

- (1) Site Management Plan The following practices are to be implemented during construction:
 - a) stockpiles of topsoil, sand, aggregate, spoil or other material shall be kept clear of any drainage path, easement, natural watercourse, kerb or road surface and shall have measures in place to prevent the movement of such material off site;

- b) builder's operations such as brick cutting, washing tools, concreting and bricklaying shall be confined to the building allotment. All pollutants from these activities shall be contained on site and disposed of in an appropriate manner;
- waste shall not be burnt or buried on site, nor shall wind blown rubbish be allowed to leave the site. All waste shall be disposed of at an approved waste disposal facility;
- a waste control container shall be located on the site;
- all building materials, plant, equipment and waste control containers shall be placed on the building site. Building materials, plant and equipment (including water closets), shall not to be placed on public property (footpaths, roadways, public reserves, etc);
- f) toilet facilities shall be provided at, or in the vicinity of, the work site at the rate of 1 toilet for every 20 persons or part thereof employed at the site. Each toilet shall:
 - i) be a standard flushing toilet connected to a public sewer; or
 - ii) have an on-site effluent disposal system approved under the Local Government Act 1993; or
 - iii) be a temporary chemical closet approved under the Local Government Act 1993.
- (2) Removal of Waste Materials Where there is a need to remove any identified materials from the site that contain fill/rubbish/asbestos, the waste material shall be assessed and classified in accordance with the NSW EPA Waste Classification Guidelines (2008) (refer to: www.environment.nsw.gov.au/waste/envguidIns/index.htm)

Once assessed, the materials shall be disposed of to a licensed waste facility suitable for that particular classification of waste. Copies of tipping dockets shall be retained and supplied to Council upon request.

- (3) Additional Approvals Required Where any works are proposed in the public road reservation, the following applications shall be made to Council, as applicable:
 - For installation or replacement of private stormwater drainage lines or utility services, including water supply, sewerage, gas, electricity, etc, an application shall be made for a Road Opening Permit and an approval under Section 138 of the Roads Act 1993;
 - b) For construction / reconstruction of Council infrastructure, including vehicular crossings, footpath, kerb and gutter, stormwater drainage, an application shall be made for a Roadworks Permit under Section 138 of the *Roads Act 1993*.
 - Note: Private stormwater drainage is the pipeline(s) that provide the direct connection between the development site and Council's stormwater drainage system, or street kerb and gutter.

- (4) Construction Hours All work (including delivery of materials) shall be restricted to the hours of 7.00am to 5.00pm Monday to Saturday inclusive. Work is not to be carried out on Sundays or Public Holidays.
 - (5) Construction Noise Levels Noise levels emitted during construction works shall be restricted to comply with the construction noise control guidelines set out in Chapter 171 of the NSW EPA's Environmental Noise Control Manual, This manual recommends;

Construction period of 4 weeks and under:

The L10 level measured over a period of not less than 15 minutes when the construction site is in operation must not exceed the background level by more than 20 dB(A).

Construction period greater than 4 weeks:

The L10 level measured over a period of not less than 15 minutes when the construction site is in operation must not exceed the background level by more than 10 dB(A).

- (6) Traffic Management Plan Implementation All construction traffic management procedures and systems identified in the approved Construction Traffic Management Plan shall be introduced and maintained during construction of the development to ensure safety and to minimise the effect on adjoining pedestrian and traffic systems.
- (7) Site Signage A sign shall be erected at all entrances to the subdivision site and be maintained until the subdivision has reached 80% occupancy. The sign shall be constructed of durable materials, be a minimum of 1200mm x 900mm, and read as follows:

"WARNING UP TO \$1,500 FINE. It is illegal to allow soil, cement slurry or other building materials to enter, drain or be pumped into the stormwater system. Camden Council (02 4654 7777) – Solution to Pollution."

The wording shall be a minimum of 120mm high and the remainder a minimum of 60mm high. The warning and fine details shall be in red bold capitals and the remaining words in dark coloured lower case letters on a white background, surrounded by a red border.

- (8) Soil, Erosion, Sediment and Water Management Implementation All requirements of the erosion and sediment control plan and/or soil and water management plan shall be maintained at all times during the works and any measures required by the plan shall not be removed until the site has been stabilised.
- (9) Unexpected Finds Contingency (Remediation) Should any additional contamination or hazardous materials be encountered during any stage of the remediation process, all remediation works in the vicinity of the findings shall cease and compliance with the contingency recommendations in the approved remediation action plan shall be adopted.
- (10) Remediation Works Inspections A qualified environmental consultant or scientist must frequently inspect the remediation works to confirm compliance with the RAP including all health and safety requirements.

- (11) Salinity Management Plan All approved development that includes earthworks, imported fill, landscaping, buildings, roads and associated infrastructure proposed to be constructed on the land must be carried out or constructed in accordance with AS2159 and AS2870 as well as the Management Strategies outlined in Section 9.2 of the report titled 'Preliminary Contamination and Salinity Investigation: Proposed Residential Subdivision Development, Lot 1 in DP798823, No 10 Springs Road, Spring Farm NSW Ref No.JC16259A prepared by GeoEnviro Consultancy Pty Ltd and dated April 2016'.
- (12) Offensive Noise, Dust, Odour and Vibration All work shall not give rise to offensive noise, dust, odour or vibration as defined in the *Protection of the Environment Operations Act 1997* when measured at the property boundary.
- (13) Erosion and Sedimentation Control Soil erosion and sedimentation controls are required to be installed and maintained for the duration of the works. The controls must be undertaken in accordance with version 4 of the Soils and Construction – Managing Urban Stormwater manual (Blue Book).
- (14) Location of Stockpiles Stockpiles of soil shall not be located on / near any drainage lines or easements, natural watercourses or water bodies, footpath or roadway without first providing suitable protective measures adequate to protect these water bodies. All stockpiles of contaminated materials shall be suitably covered to prevent dust and odour nuisance.
- (15) Disposal of Stormwater Water seeping into any site excavations is not to be pumped into the stormwater system unless it complies with relevant EPA and ANZECC standards for water quality discharge.
- (16) Fill Material Importation and/or placement of any fill material on the subject site, a validation report and sampling location plan for such material must be provided to and approved by the Principal Certifying Authority.

The validation report and associated sampling location plan must:

- be prepared by a person with experience in the geotechnical aspects of earthworks;
- b) be endorsed by a practising engineer with Specific Area of Practice in Subdivisional Geotechnics;
- c) be prepared in accordance with;

Virgin Excavated Natural Material (VENM):

- the Department of Land and Water Conservation publication "Site investigation for Urban Salinity"; and
- ii) the Department of Environment and Conservation Contaminated Sites Guidelines "Guidelines for the NSW Site Auditor Scheme

ORD01

(Second Edition) - Soil Investigation Levels for Urban Development Sites in NSW".

- d) confirm that the fill material;
 - i) provides no unacceptable risk to human health and the environment;
 - ii) is free of contaminants;
 - has had salinity characteristics identified in the report, specifically the aggressiveness of salts to concrete and steel (refer Department of Land and Water Conservation publication "Site investigation for Urban Salinity");
 - iv) is suitable for its intended purpose and land use; and
 - v) has been lawfully obtained.

Sampling of VENM for salinity of fill volumes:

- e) less than 6000m3 3 sampling locations;
- f) greater than 6000m3 3 sampling locations with 1 extra location for each additional 2000m3 or part thereof.

For e) and f) a minimum of 1 sample from each sampling location must be provided for assessment.

Sampling of VENM for Contamination and Salinity should be undertaken in accordance with the following table:

Classification of Fill Material	No of Samples Per Volume	Volume of Fill (m ³)
Virgin Excavated Natural	1	1000
Material	(see Note 1)	or part thereof

Note 1: Where the volume of each fill classification is less than that required above, a minimum of 2 separate samples from different locations must be taken.

- (17) Air Quality Vehicles and equipment used on site must be maintained in good working order and be switched off when not operating. The burning of any waste material is prohibited.
- (18) Acoustic Boundary Fence A 1.8m high acoustic rated boundary fence, free of any holes and gaps, is required along the full length of the southern boundary of lot 19 so as to provide acoustic attenuation to lot 18 and lots 9 – 12.

5.0 - Prior to Issue of a Subdivision Certificate

The following conditions of consent shall be complied with prior to the issue of a Subdivision Certificate.

- **ORD01**
- (1) Requirement for a Subdivision Certificate The application for subdivision certificate(s) shall be made in accordance with the requirements of Clause 157 of the Environmental Planning & Assessment Regulation 2000.
- (2) Show Easements/ Restrictions On The Plan Of Subdivision The developer shall acknowledge all existing easements and/or restrictions on the use of the land on the final plan of subdivision.
- (3) Burdened Lots To Be Identified Any lots subsequently identified during construction of the subdivision as requiring restrictions shall also be suitably burdened.
- (4) Subdivision Certificate The issue of a Subdivision Certificate is not to occur until all conditions of this development consent have been satisfactorily addressed and all engineering works are complete, unless otherwise approved in writing by the PCA.
- (5) Fill Plan A fill plan shall be provided to the PCA prior to the issue of any Subdivision certificate. The plan must :
 - a) Show lot boundaries;
 - b) Show road/drainage/public reserves;
 - c) Show street names;
 - d) Show final fill contours and boundaries; and
 - e) Show depth in filling in maximum 0.5m Increments

It is to be provided electronically in Portable Document Format (.PDF) at 150dpi with a maximum individual file size not exceeding 2 megabytes and provide both on compact disk and an A1 paper plan.

(6) Incomplete Works - Prior to the issue of the Subdivision Certificate the applicant is to lodge a bond with Camden Council for the construction of incomplete works, including concrete footpath and/or pedestrian/cycle shared way, in accordance with Camden Council's current Engineering Construction Specifications.

Note - An administration fee is payable upon the lodgement of a bond with Council.

- (7) Surveyor's Report Prior to the issue of the Subdivision Certificate a certificate from a registered surveyor must be provided to the PCA, certifying that all drainage lines have been laid within their proposed easements. Certification is also to be provided stating that no services or accessways encroach over the proposed boundary other than as provided for by easements as created by the final plan of subdivision.
- (8) Value of Works Itemised data and value of civil works shall be provided to Council for inclusion in Council's Asset Management System in accordance with Council's Engineering Specifications.
- (9) Electricity Notice of Arrangement A Notice of Arrangement for the provision of distribution of electricity from Endeavour Energy must be submitted to the Principal Certifying Authority (Council). The arrangement must include the provision of street lighting in accordance with the electrical design approved by Council.
- (10) Soil Classification A soil classification report prepared by a suitably qualified person in accordance with AS 2870 'Residential Slabs and Footings', detailing the general classification of soil type generally found within the subdivision, shall be provided to the PCA. A classification shall be provided for each lot within the subdivision. The soil classification report shall also be provided to Council.

- (11) Services Certificates and/or relevant documents shall be obtained from the following service providers and provided to the PCA:
 a) Energy supplier Evidence demonstrating that satisfactory arrangements have been made with the energy supplier to service the proposed
 - b) Telecommunications Evidence demonstrating that satisfactory arrangements have been made with a telecommunications carrier to service the proposed development; and
 - c) Water supplier Evidence demonstrating that satisfactory arrangements have been made with a water supply provider to service the proposed development.
 - (12) Works As Executed Plan Works As Executed Plans shall be prepared and provided in accordance with Council's Engineering Specifications.

Digital data must be in <u>AutoCAD</u>.dwg or .dxf format, and the data projection coordinate must be in (<u>GDA94.MGA zone 56</u>).

- (13) Section 88B Instrument The applicant shall prepare a Section 88B Instrument for approval by the PCA which incorporates the following easements, positive covenants and restrictions to user where necessary:
 - a) easement for services;
 - b) easement to drain water and drainage easement/s over overland flow paths;
 - c) easement for on-site-detention;
 - positive covenant over the on-site detention / water quality facility for the maintenance, repair and insurance of such a facility;
 - e) easement for water quality;
 - f) retaining wall, positive covenant, and restriction to user;
 - g) restriction as to user detailing that no person shall alter, remove or destroy any soil, planting or any part of the fence which forms part of the acoustic barrier without the prior approval of Council and that the landowners or their assigns shall maintain the acoustic barrier in good order at all times. If the acoustic barrier is not maintained to the satisfaction of Council, Council may enter upon the land and carry out the necessary work at full cost to the owner;
 - h) All approved development that includes earthworks, imported fill, landscaping, buildings, roads and associated infrastructure proposed to be constructed on the land must be carried out or constructed in accordance with AS2159-2009: Piling Design and installation and AS2870-2011: Residential Slabs and Footings in order to address a mildly aggressive environment to concrete as well as the Management Strategies outlined in Section 9.2 of the report titled 'Preliminary Contamination and Salinity Investigation: Proposed Residential Subdivision Development, Lot 1 in DP798823, No 10 Springs Road, Spring Farm NSW Ref No.JC16259A prepared by GeoEnviro Consultancy Pty Ltd and dated April 2016';

- A 1.8m high acoustic rated boundary fence, free of any holes and gaps, is required along the full length of the southern boundary of lot 19 so as to provide acoustic attenuation to lot 18 and lots 9 – 12;
 - j) For lots 15-18, lots 9-12 and lots 2-3 (upper level only) the construction requirements and window and door treatments are to be consistent with Table 6.1 'In Principle Glazing Recommendations' contained within "Proposed residential development, 10 Springs Road, Springs Farm NSW, Road Traffic Noise Impact Assessment Report: R150574R1 Revision 2' prepared by Rodney Stevens Acoustics and dated 22 November 2016. Compliance with the above is to be demonstrated with each dwelling application; and,
 - k) For lots 15-18 and lots 9-12 some facades identified in the report may require windows to be closed (but not necessarily sealed) to meet internal noise criteria. As a result, the provision of alternative ventilation (possibly mechanical provided there is a fresh air intake) that meets the requirements of the Building Code of Australia (BCA) will need to be provided to habitable rooms on these facades to ensure fresh airflow inside the dwellings when windows are closed. Consultation with a mechanical engineer to ensure that BCA and AS1668 are achieved may be required. Compliance with the above ventilation requirement is to be demonstrated for each dwelling application on the affected lots.
 - Restriction as to user that any dwelling to be constructed on Lot 3 is to be setback a minimum of 10m from the boundary shared with Lot 4.
 - m) Restriction as to user that any dwelling to be constructed on lot 2 is to be setback 10m from the end of the battle-axe handle to align with the dwelling on Lot 3.
 - Restriction as to user that any dwelling to be constructed on Lot 4 is to have a side setback of 1.5m from the southern boundary.
- (14) Drainage Easement Widths The widths of the proposed Easement for Drainage in Lots 11 to 14, and Lots 14 to 18 shall be in accordance with Council's Engineering Design Specification. These widths shall be correctly shown on the Plan of Subdivision.
- (15) Swale For Overland Flow From Adjoining Upstream Properties A swale to cater for the overland flow from adjoining upstream properties shall be designed and constructed in accordance with Council's Engineering Design Specification.
- (16) Water Quality Facility A water quality facility must be constructed for the site in accordance with the approved plans and Council's Engineering Specifications.
- (17) Water Quality Facility Operation, Maintenance and Monitoring Manual/s -Operation, Maintenance and Monitoring Manual/s ('Manuals') for the permanent water quality facility shall be provided for approval to the PCA. The Manuals shall be prepared by a suitably qualified person in accordance with Council's Engineering Specifications.
- (18) Maintenance Bond The applicant is to lodge a maintenance bond in the form of an unconditional bank guarantee or cash bond, being 10% of the value of civil works, with Council prior to the issue of a Subdivision Certificate. The bond covers the maintenance after the date of issue of the Subdivision Certificate for a stipulated period 12 months for matters relating to the On-site Detention Basin and Bio-retention Basin in proposed Lot 1, public reserve or other

public property that require on-going maintenance as a result of the Development Consent conditions.

Note – An administration fee is payable upon the lodgement of a bond with Council.

(19) Road Surface Bond - The applicant is to lodge a bond in the form of an unconditional bank guarantee or cash bond with Council for the placement of the final layer of asphaltic concrete (AC) wearing course for any proposed Public Road within the subdivision.

The bond is to be in the form of cash or unconditional bank guarantee, in favour of Council and shall be equivalent to 150% of the value of the works, including the cost of all reinstatement works. The bond amount shall be determined by making reference to Council's current unit rates for such works.

The bond period is to commence on the date of issue of Subdivision Certificate and is to be held until at least 80% of the subdivision occupancy, or when determined by Council.

Note - An administration fee is payable upon the lodgement of a bond with Council.

(20) Footpath Bond - The applicant is to lodge a bond in the form of an unconditional bank guarantee or cash bond with Council for the construction of a concrete footpath and/or pedestrian/cycle shared way. This applies only where such a facility is located in existing and/or proposed public land.

The bond is to be in the form of cash or unconditional bank guarantee, in favour of Council and shall be equivalent to 125% of the value of the works, including the cost of all reinstatement works. The bond amount shall be determined by making reference to Council's current unit rates for such works.

The bond period is to commence on the date of issue of Subdivision Certificate and is required to be held until at least 80% of the subdivision occupancy, or when determined by Council.

Note - An administration fee is payable upon the lodgement of a bond with Council.

(21) Defects and Liability Bond - The applicant is to lodge a defects and liability bond in the form of an unconditional bank guarantee or cash bond, being 10% of the value of civil works, with Council.

The bond covers any defects and liabilities of the public infrastructure.

Note - An administration fee is payable upon the lodgement of a bond with Council.

- (22) Water Quality Facility Bond The applicant is to lodge a bond with Council for:
 - the cost of removing the sediment, turf and geotextile layer on the water quality facility, and
 - b) planting the water quality facility to its final form as detailed in the approved drawings.

The bond amount is 10% of the value of civil works, with Council.

The bond applies only where such a facility is located in existing and/or proposed public land.

The bond will be retained by Council until:

- such works have been completed in accordance with the approved plans and to the requirements of Council; and
- b) the completion of such work has been confirmed in writing by Council.

Note - An administration fee is payable upon the lodgement of a bond with Council.

(23) Section 94 Contributions – Monetary - A contribution pursuant to the provisions of Section 94 of the EP&A Act 1979 for the services and amounts detailed below.

Plan Name	Contribution Type	Indexed Rate	Amount Payable
Camden Contributions Plan 2011	Open Space Land Acquisition - indexed Annually by land values.	\$8,409.00 per lot or dwelling	\$ 142,953.00
Camden Contributions Plan 2011	Community Land Acquisition - indexed Annually by land values.	\$52.00 per lot or dwelling	\$884.00
Camden Contributions Plan 2011	Drainage, Roadworks, Traffic Facilities, Open Space Embellishment and Masterplan - indexed Quarterly to the CPI.	\$43,532.00 per lot or dwelling	\$740,044.00
Camden Contributions Plan 2011	Recreation and Community Facilities, Volunteer Emergency Services Facilities and Plan Preparation and Administration Services - indexed Quarterly to the CPI.	\$10,470.00 per lot or dwelling	\$177,990.00
	Total		\$1,061,871.00

A copy of the Section 94 Contributions Plan may be inspected at Council's Camden office at 70 Central Avenue Oran Park or can be accessed on Council's website at www.camden.nsw.gov.au.

The amount of contribution payable under this condition has been calculated at the date of consent. In accordance with the provisions of the Contributions Plan, this amount shall be indexed at the time of actual payment in accordance with the applicable Index.

- (24) Validation Report A validation report prepared by a suitable qualified person shall be provided to the PCA within 30 days of completion of the remediation works, and prior to the issue of a Subdivision Certificate, which demonstrates:
 - a) compliance with objectives of the approved RAP;

- b) that the remediation acceptance criteria (in the approved RAP) has been fully complied with;
- c) that all remediation works comply with the contaminated lands planning guidelines, Contaminated Lands Management Act 1997 and SEPP 55;

and includes:

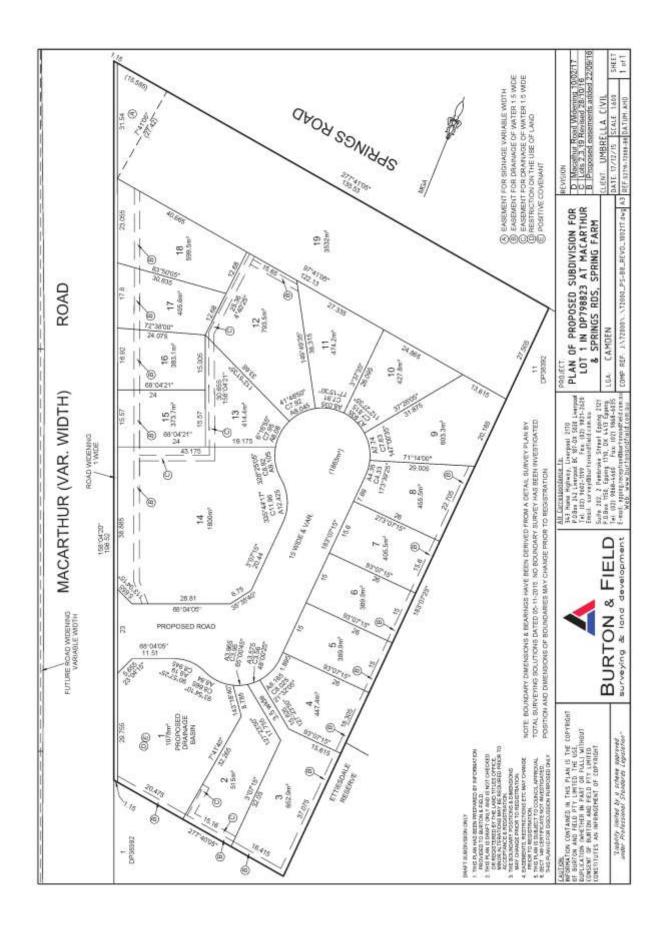
- Works-As-Executed Plan(s) that identify the extent of the remediation works undertaken (that includes any encapsulation work) prepared by a registered surveyor;
- a "notice of completion of remediation work" as required under Clause 18 of SEPP 55; and
- f) a statement confirming that the site following remediation of contamination is suitable for the intended use.
- (25) Special Infrastructure Contribution The applicant shall make a special infrastructure contribution (SIC) in accordance with the determination made by the Minister administering the EP&A Act 1979 under Section 94EE of that Act and as in force on the date of this consent. This contribution shall be paid to the DP&E.

Evidence of payment of the SIC shall be provided to Council and the PCA.

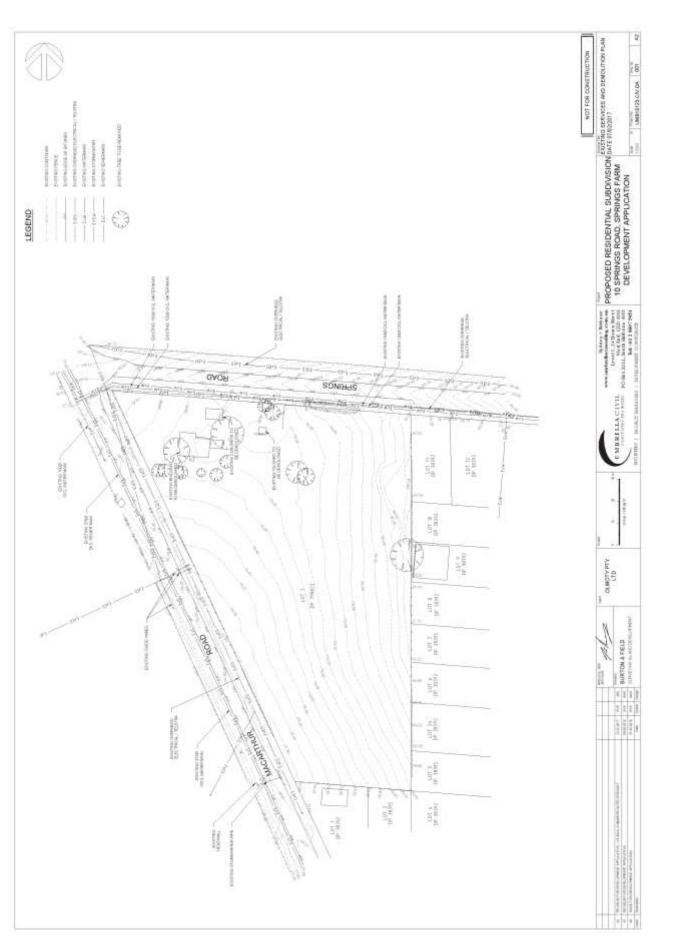
Reasons for Conditions:

- (1) To ensure that the development complies with statutory requirements including the Environmental Planning and Assessment Act 1979, the Environmental Planning and Assessment Regulation 2000, the Building Code of Australia and applicable Australian Standards.
- (2) To ensure that the development meets the aims, objectives and requirements of the environmental planning instruments, development controls plans, Council policies and Section 94 contribution plans that apply to the site and development.
- (3) To ensure that the development complies with the submitted plans and supporting documentation.
- (4) To ensure that the development will be constructed/operated in a manner that will minimise impacts upon the environment.

Attachment 2



Attachments for the Ordinary Council Meeting held on 28 March 2017 - Page 22



Attachment 3

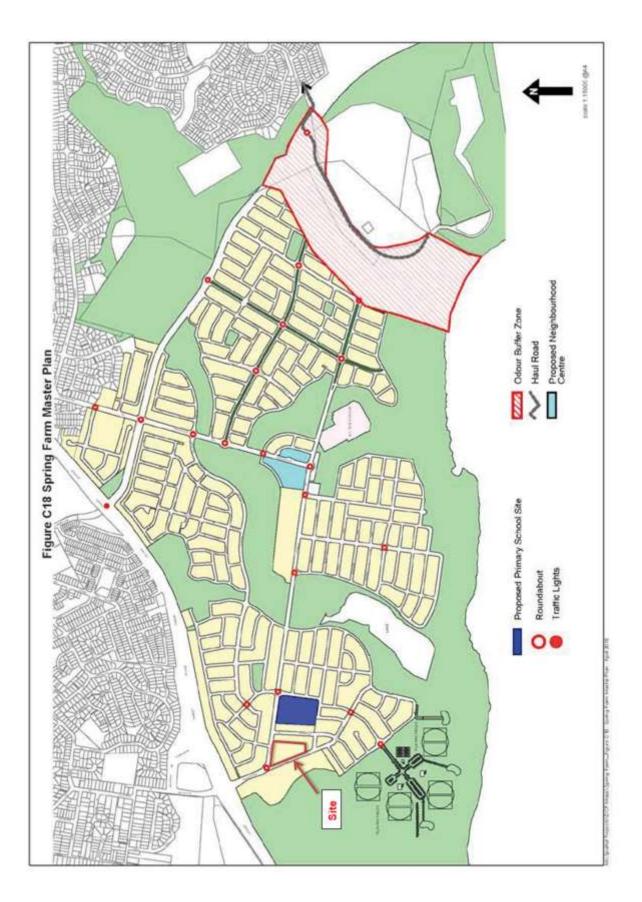
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FLORA AND FAUNA ASSESSMENT REPORT

10 SPRINGS ROAD

SPRING FARM

PREPARED FOR: Olmoty Pty Ltd.

OUR REFERENCE: 302216

ISSUE DATE: 29/03/2016

QDO 029-0 F&F Assessment Release Date: 9/10/2014 Approved By: Daniel Mathew

Wastewater Management / Effluent Reuse | Gontamination Investigations | Urban Salinity Investigations | Bushfire Hazard Assessments | Geotechnical Engineering Slope Stability | Sediment & Erosion Control | Structural Engineering (Design & Certification) (Flora & Fauna | Environmental Impact Assessment / Management

ORD01

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AUTHOR		TECHNICAL REVIEWER
Shane Maloney (Ecologist) B.Env.Sc (Hons), Grad. Dip.Ed, M.Sc.Res		
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Executive Summary

This report describes the biological environment of 10 Springs Road, Spring Farm and assesses the potential effects on threatened and migratory species, endangered populations and ecological communities of the proposal to subdivide the site into six lots.

A desktop search for threatened species within a 10 km radius of the site was generated, and a flora (3 hours) and fauna (3 hours) assessment was undertaken to ascertain if any threatened species were on site or might use the site. The site is highly degraded.

No threatened species, endangered populations or endangered ecological communities listed on the schedules of the NSW Threatened Species Conservation Act 1995, or the Commonwealth Environment Protection and Biodiversity Conservation Act 1999 were recorded in the study area.

Following an assessment of the seven factors from Section 5A of the NSW Environmental Planning and Assessment Act 1979, as required by the NSW Threatened Species Conservation Act 1995, in accordance with relevant assessment guidelines, it is concluded that the proposal is unlikely to have a significant effect on threatened species, endangered populations, ecological communities, or their habitats. A Species Impact Statement is not required for the proposal.

Following consideration of the administrative guidelines for determining significance under the *Commonwealth Environment Protection & Biodiversity Conservation Act 1999*, it is concluded that the proposal is unlikely to have a significant impact on matters of National Environmental Significance or Commonwealth land, and a referral to the Commonwealth Environment Minister is not necessary.

A number of impact mitigation and amelioration strategies have been recommended for the proposal. These strategies mitigate the effects of the proposal on threatened species,

endangered populations, ecological communities, or their habitats and minimise the impacts of the proposal on the flora and fauna values of the study area in general.

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1. Introduction

This report determines the presence of threatened species, habitats, populations (and their associated habitats) as well as ecological communities within the subject property. It is written in accordance with the requirements of the *Environmental Planning and Assessment Act* (1979), *Threatened Species Conservation Act* (1995) and the *Environment Protection and Biodiversity Conservation Act* (1999).

1.1 Aims

The aim of this report is to produce a flora and fauna assessment to:

- · Assess the ecological resources of the study site;
- Fulfil the requirements of the Environmental Planning and Assessment Act (1979);
- · To assess the impact of the development on matters of conservation significance;
- Assess the potential for threatened flora and fauna species and Endangered Ecological Communities (EECs) to occur within the study site which may be listed under commonwealth and state legislation;
- Suggest measures, which may alleviate the disturbance, in alignment with the *Threatened Species Conservation Act*, (1995) and the *Environmental Conservation* and Biodiversity Act, (1999).

The specific objectives of the report are to:

- · Conduct a database search of the study site;
- Plan and undertake field surveys, designed in accordance with the Working Draft Threatened Biodiversity Assessment Guidelines for Developments and activities (2004)
- Identify habitat for threatened species on the study site that are listed in the schedules
 of the TSC Act and the EPBC Act that are known or are likely to occur in the study
 area;
- Undertake an Assessment of Significance in accordance with the TSC Act and significant impact criteria assessments under the EPBC Act for threatened species, communities and populations that can be impacted by the proposal, either directly or indirectly; and,
- · Provide recommendations to mitigate the impacts of the proposed action

1.2 Project Context

Table 1: Name and address of client

Client Name	Olmoty Pty. Ltd.
Address	10 Springs road, Spring Farm
Local government area	Camden City Council

1.3 Description of Study Area

Table 2: Description of study area

Size of Property	1.627 Ha
Proposed land use	Residential subdivision of 1 Lot into 19 lots.
Map of study site	Refer to Figure 1.

1.4 Proposed Development

Table 3: Description of proposed development

Proposed Development	The proposal is to subdivide the existing Lot
	into 19 lots, with road and 1 lot being a
	proposed drainage basin.

The concept plan for the proposed development is provided in Appendix 1.

1.5 Site details



Figure 1: Aerial Map of 10 Springs Road, Spring Farm (Six Maps vegetation viewer)





= Alluvial Woodland (as a part of River Flat Eucalypt Forest)

2. Legislative Requirements and International Agreements

Threatened Species Conservation Act, 1995 (New South Wales)

The central aim of the *Threatened Species Conservation Act* is to protect any threatened flora and fauna occurring in NSW, omitting marine plants and fish. The Act provides information for the identification, conservation and recovery of threatened species as well as their associated populations and communities, and any threats that are imposed on those species. If a proposed action is likely to have an effect on a threatened species, population or ecological community, then this is considered in the development approval process. If the impact is considered significant then a Species Impact Statement (SIS) must be prepared and submitted to the Director General and further agreement and approval is needed. In certain circumstances, the Minister for the Environment may additionally be consulted.

Environmental Planning and Assessment Act 1979 (NSW)

The primary objective of the Environmental Planning and Assessment Act (1979), is focused on the protection of the environment. This includes the protection of native flora and fauna, threatened species, populations, ecological communities and their associated habitats. The secondary objective of this act is to implement the precautionary principle, outlined in the Protection of the Environment Administration Act (1991). Under section 5A of the Act and Section 94 of the Threatened Species Conservation Act (1995), seven listed factors collectively termed the '7-part assessment of significance', allows the determination of the likely impact of a proposed action on threatened species, population or endangered ecological communities. If the proposed action is assessed as likely to have an effect on any of these, then a SIS is required.

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Environment Protection and Biodiversity Conservation Act (1999; Commonwealth legislation)

The EPBC Act is legislation of the Commonwealth. In accordance with this act, all proposed actions are to be assessed to determine impacts on *Matters of National Environmental Significance*. These matters include: World heritage properties; Natural heritage; Wetlands of national importance (RAMSAR, CAMBA, JAMBA and ROKAMBA wetlands); Threatened species and ecological communities; Migratory species; Marine areas in the Commonwealth; and Nuclear actions.

International migratory animal agreements include:

- Appendices to the Bonn Convention (Convention on the Conservation of Migratory Species of Wild Animals) for which Australia is a Range State under the Convention;
- b. The recognised agreement between Australia and the People's Republic of China for the Protection of Migratory Birds in Danger of Extinction and their Environment (CAMBA);
- c. The recognised agreement between Australia and the Republic of Korea on the Protection of Migratory Birds (ROKAMBA); and,
- d. The recognised agreement between Australia and Japan for the Protection of Migratory Birds and Birds in Danger of Extinction and their Environment (JAMBA).

If the proposed action is likely to affect a *Matter of National Environmental Significance*, it is necessary that this action is assessed via the EPBC Acts 'considerations' assessment. If there is likely to be a significant impact on these matters, referral to the Commonwealth Environment Minister is required for review. Approval for the proposed action may then be granted, so long as accompanied control measures alleviate likely impacts.

3. Methodology

3.1 Literature and Database Search

A database review was conducted prior to undertaking onsite surveys. This was done to give Envirotech ecologists an insight into which threatened or migratory species should be targeted during field surveys. Table 4 provides an overview of the desktop review.

Table 4: Overview of Desktop Search

Search Tool	Description	Search Parameters
The NSW Bionet Atlas of New South Wales Wildlife	(3) 20.50 (201)	Parameters set to a 10km radius of the study site (Flora, Fauna and Vegetation Communities).
Commonwealth Protected Matters Search Tool	8 8 6	Parameters set to a 10km radius of the study site (Flora, Fauna and Vegetation Communities).
Vegetation Information System	Used to generate a map of the vegetation community onsite.	

3.2 Terrestrial Flora Survey

Envirotech ecologist Shane Maloney conducted a flora survey at 9:00 am on Monday 21st March 2016 for approximately 3 hours. It was a warm day.

The methodology employed was designed in accordance with the Working Draft Threatened Biodiversity Assessment Guidelines for Developments and activities (2004). Table 5 refers to specific techniques employed.

Survey Type	Description	Effort	Is this in accordance with Guidelines?
Random Meander	The site was traversed and the flora species observed were recorded.	3 Hours	Yes, however the survey was limited in effort and time (See section 3.5)

Table 5: Survey techniques employed to target threatened flora

3.2.1 Habitat Assessment

The degree to which the vegetation on the site resembled natural, undisturbed vegetation was used to determine the habitat potential of the site. This included the following criteria:

- · The composition of the species (diversity, degree of weed invasion); and
- Structure of the vegetation (how many original layers of vegetation existed).

Criteria used to evaluate the habitat values of the area in general terms, were good, moderate, poor and cleared disturbed. These are detailed in table 6.

Score	Criteria
Good	There is a high diversity of species, no weeds are extant or those weeds that are present only occur on the edges of the study site, the vegetation represents many layers (i.e. ground, shrub, canopy layers) and these are readily identifiable
Moderate	There are a high number of native species, some weed invasion but these only occur in small patches, one or more of the vegetation layers are disturbed but these are relatively intact;
Poor	There is a low number of native species, many of the plants that are on the site consist of exotic species that occur in dense patches, more than one of the vegetation layers has been disturbed or removed;
Cleared and disturbed	This represents a significantly modified landscape that has less than three native species, invasive species are mostly dominant, there is little representation of vegetation layers, the soil profile is disturbed and there is the likelihood that the area will not regenerate to its natural condition and that revegetation techniques would need to be implemented in order to achieve this.

Table 6: Criteria used	to assess habita	anality for threatened	flora
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3.2.2 Detailed Vegetation Description

The site at 10 Springs Road, Spring Farm is 1.627 hectares in area. The area is degraded for the most and covered with non-native vegetation; the vegetation map for the site is presented in Figure 2 (Six maps vegetation viewer). This resource has indicated that Alluvial Woodland (as river Flat eucalypt Forest) is mapped 500 m to the East and 770m to the West; the vegetation survey did not find any evidence of this community on site.

The area around the existing dilapidated house has many garden plantings, shrubs and trees: Examples are Grevillea Robin Gordon, Silky Oak, Moreton Bay Fig and climbers. The area where the proposed Lots 1-18 is to be sited is cleared for the most, excepting an area that is Acacia regrowth (area for Lot 14, road and drainage basin), amongst this area is African olive. There were 3 Eucalypt species recorded on site one *Corymbia maculata*, one unknown (within the existing house Lot) and *Eucalyptus robusta* (behind the houses to the East).

Using the criteria listed in Table 6, the vegetation in the area for the proposed Lots 1-19 would be classified as cleared and disturbed.

3.3 **Terrestrial Fauna Survey**

A fauna survey was conducted by Envirotech ecologist Shane Maloney on Monday the 21st March 2016 for approximately three hours.

Methodology employed was in accordance with the Working Draft Threatened Biodiversity Assessment Guidelines for Developments and activities (2004) and consisted of the following survey methods (Table 7):

Survey Type	Description	Does this match guidelines?
Frog	The site was surveyed for potential habitat and any calls emitted from species present.	Yes, however the survey was limited in effort and time. (see section 3.5)
Reptile Search	A targeted habitat search was undertaken, across the entire site. Techniques used to locate species included peeling back loose bark from trees, upturning logs and disturbing leaf litter.	Yes, however the survey was limited in effort and time. (see section 3.5)
Bird point Count Survey	Point count surveys were undertaken onsite, for a period of 20 minutes, using both visual and aural detection.	Yes, however the survey was limited in effort and time. (see section 3.5)
Opportunistic (Diurnal)	The entire site was traversed with emphasis on searches for mammal scats, tracks, burrows, diggings and scratchings.	Yes

Table 7: Survey techniques employed to target threatened fauna

3.3.1 Habitat Assessment

A number of habitat values were recorded during the site inspection (Table 8).

The potential for the site to provide habitat for threatened fauna species was based upon habitat values provided in Table 8, and the specific habitat requirements of threatened species. Criteria used to evaluate the overall quality of the habitat, were good, moderate, and poor. This criteria is detailed in Table 9.

Table 8: Description of	fauna	habitat	values	
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Habitat Value	Description	
Hollow Bearing Trees	There were no hollows on site	
Stags	There were no stags on site.	
Connectivity	There was minimal connectivity for the site (see Figure 2).	
Water	There was no watercourses on site	
Rocky Outcrops	There were no rocky outcrops at the site	
Leaf Litter	The study area had a minimal covering of leaf litter and grasses	

Table 9: Criteria used to assess habitat quality for the site

Score	Criteria
Good	The presence of the ground flora consists of a diverse range of native species, the assemblages of species of the vegetation, leaf litter, significant number of refuge, feeding and breeding sites and the presence of a diverse range of native fauna species
Moderate	The ground flora contains a relatively high number of native species, the assemblages of species is relatively undisturbed, leaf litter, the presence of some refuge, feeding and breeding sites and diverse presence of native fauna
Poor	There was a low diversity of ground flora and very little presence of native flora, the assemblages of species of vegetation is low, poor presence of leaf litter, little or no refuge, feeding and breeding sites and a low diversity of fauna species.

3.3.2 Detailed Fauna habitat description

The study area indicates significant disturbances in the past, such as clearing. At present there is a dilapidated house and cleared areas on site, where the proposed Lots 1-19 (Figure 3) are to be sited. In this area there are scattered trees and a covering of introduced grasses. The site is found adjacent to and surrounded by an existing housing estate (East and South), and estates being developed (North and West).

The lack of rocky outcrops and patchy grassy groundcover would provide minimal shelter and foraging for terrestrial fauna. The paucity of hollows on site would decrease the availability of resources for hollow dependent fauna. Habitat connectivity to areas of native vegetation is practically non-existent for the study area (see Figure 2).

There was evidence of habituation of the area by rabbits; with plenty of scratching's and a burrow (fresh) within the Acacia regrowth area. A feral cat was observed stalking this area also.

Overall the site was assessed to have a poor habitat quality assessment. This is due to the amount of introduced species (flora) and previous clearing that has happened on site; and the paucity of hollows and ground shelter for fauna species.

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3.4 Key Threatening Processes

A list of the Key Threatening Processes, listed under the *Environmental Protection and Biodiversity Conservation Act* (1999) and *Threatened Species Act* (1995), was generated by conducting a desktop search of the *Species Profile and Threats* database. During the site inspection, the presence or absence of these processes occurring on the site were documented, with additional threats not otherwise being listed, considered (refer to section 4.5 Key Threatening processes for a more detailed assessment).

3.5 Limitations of the Report

The methodological design employed for the purposes of this report was habitat based, in accordance with Section 5A of the *Environment Planning and Assessment Act* (1979).

In respect to the timing of the survey and the survey effort employed, a considerable continuum of fauna and flora species and assessments of the ecological processes that are likely to be imposed on the study site, have been derived through desktop searches, and background and literature searches. Therefore, a full inventory of flora and fauna and the ecological processes likely to occur on the study site and surroundings cannot be fully provided in this report.

It is also acknowledged that the presence and detection of threatened and migratory species can alter in respect to time, which includes seasonal weather and climatic cycles. These limitations have been mitigated by identifying any potential habitat for flora and fauna species and by assessing the likelihood of occurrence of these species, with respect to previous records, the habitat present, the land use on the study site and the landscape context of the wider area.

The report has collected data from publically available data sources and is bound by the limitations of the collection, processing and management of those databases used (Table 4).

4. Results

4.1 Vegetation Communities

Results of the desktop research are provided in Table 10, with a vegetation community map of the study site provided in Figure 3 and 4. Table 10. Results of Bionet and Protected Matters Search tool, identifying endangered ecological communities recorded within 10 km of the site.

Community name	NSW Status	Commonwealth status	Occurrence
Agnes Banks Woodland in the Sydney Basin Bioregion	Endangered	Critically Endangered	Not detected
Blue Gum High Forest in the Sydney Basin Bioregion	Critically Endangered	Critically Endangered	Not detected
Blue Mountains Shale Cap Forest in the Sydney Basin Bioregion	Endangered	Critically Endangered	Not detected
Castlercagh Scribbly Gum Woodland in the Sydney Basin Bioregion	Vulnerable	Not listed	Not detected
Cooks River/Castlereagh Ironbark Forest in the Sydney Basin Bioregion	Endangered	Critically Endangered	Not detected
Cumberland Plain Woodland in the Sydney Basin Bioregion	Endangered	Vulnerable	Not detected

Community name	NSW Status	Commonwealth status	Occurrence
Elderslie Banksia Scrub Forest in the Sydney Basin Bioregion	Endangered	Not Listed	Not Detected
Freshwater Wetlands on Coastal Floodplains of the New South Wales North Coast, Sydney Basin and South east Bioregion	Endangered	Not Listed	Not Detected
River-flat Eucalypt Forest on Coastal Floodplains of the New South Wales, North Coast, Sydney Basin and South East Corner Bioregions	Endangered	Not listed	Not Detected
Shale Gravel Transition Forest in the Sydney Basin Bioregion	Endangered	Critically Endangered	Not Detected
Shale/Sandstone Transition Forest in the Sydney Basin Bioregion (Critically Endangered	Critically Endangered	Not Detected
Southern Sydney sheltered forest on transitional sandstone soils in the Sydney Basin I Bioregion	Endangered	Not listed	Not Detected
Swamp Oak Floodplain Forest of the New South Wales North Coast, Sydney Basin and I South East Comer Bioregions	Endangered	Not listed	Not Detected
Western Sydney Dry Rainforest in the Sydney Basin Bioregion	Endangered	Critically Endangered	Not Detected

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4.2 Flora

4.2.1 Desktop Research

Results of the desktop research is provided in Table 12. A total of 6 threatened flora species and 1 threatened population have been recorded within a 10km radius of the study site. This includes:

- 7 species listed under the TSC Act (including 1 population)
- 5 species listed under the EPBC Act

4.2.2 Site Habitat Features

Flora surveys revealed the following habitat features for the study area (Table 11): A total of 55 species were recorded during the survey 14 (25%) were native and 41 (75%) were exotic (Appendix 2).

Table 11: Habitat features present onsite for threatened flora

Feature	Quantity	Description	
Species diversity	Low	During the vegetation survey 14 native species and 41 exotic species were recorded. Some of the native species were garden plantings.	
Structural integrity	Low	The site has a very high level of modified landscape, without any levels of stratum present.	
Habitat quality	Low	The site represents poor habita quality within the boundarie of the significantly modified site.	
Disturbances	High	The site is significantly modified, with disturbances found within Lots 1-19.	

4.2.3 Assessment of Occurrence (Flora)

Table 12 below provides a summary of the results from desktop and field surveys, findings indicate there is:

A low likelihood of the occurrence of 7 species to be present onsite (including 1 population)

For these species, which were recorded within 10 km of the site, 7 Part Tests of Significance were deemed **not** to be required as there is no habitat that is required by these flora species, which will be removed by the proposal.

Where required, species nationally protected have had an impact assessment undertaken with respect to the EPBC Act presented in Appendix 3.

Details of the assessment of available habitat resources onsite, specific to threatened flora species is provided in Table 12.

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Species	Common name	NSW	Commonwealth	Habitat	Likelihood	of
		status	status		occurrence (the study site	و a
Cynanchum elegans	White-flowered was Plant	Endangered	Endangened	The White-flowered Wax Plant usually occurs on the edge of dry rainforest vegetation. Other associated vegetation types include littoral rainforest; Coastal Tea-tree Leptospermum laevigatum – Coastal Banksia Banksia integrifolia subsp. integrifolia coastal scrub; Forest Red Gum Eucalyptus tereticomis aligned open forest and woodland; Spotted Gum Corymbia maculata aligned open forest and woodland; and Bracelet Honeymyrtle Metaleuca armillaris scrub to open scrub.	Low	
Eucalyptus benthamti	Camden White Gum	Vulnerable	Vulnerable	Occurs on the alluvial flats of the Nepean River and its tributaries. There are two major subpopulations: in the Kedumba Valley of the Blue Mountains National Park and at Bents Basin State Recreation Area Several trees are scattered along the Nepean River around Camden and Cobbitty, with a further stand at Werriberri (Monkey) Creck in The Oaks. At least five trees occur on the Nattai River in Nattai National Park. Large areas of habitat were inundated by the formation of Warragamba Dam in 1933. Requires a combination of deep alluvial sands and a flooding regime that permits seedling establishment.	Low	

Species	Common name	NSW status	Commonwealth status	Habitat	Likelihood of occurrence on the study site
Marsdenia viridiflora subsp. Viridiflora	Marsdenia viridiflora R. Br. subsp. viridiflora R. Br. viridiflora population in population in the Bankstown, Blacktown, Blacktown, Cambelltown, Fairfield, Holroyd, Liverpool and Penrith local government areas	Endangered	Not Listed	Recent records are from Prospect, Bankstown, Smithfield, Cabramatta Creek and St Marys. Previously known north from Razorback Range. Grows in vine thickets and open shale woodland.	Low
Pimelea spicata	Spiked Rice Flower	Endangered	Endangered	In both the Cumberland Plain and Illawarra environments this species is found on well- structured clay soils. On the Cumberland Plain sites it is associated with Grey Box communities (particularly Cumberland Plain Woodland variants and Moist Shale Woodland) and in areas of ironbark.	Low
Pommaderris brumea	Brown Pommaderris	Endangered Vulnerable	Vulnerable	Brown Pomaderris grows in moist woodland or forest on clay and alluvial soils of flood plains and creek lines. Flowers appear in September and October.	Low
Pultenaea pedunculata		Endangered	Not Listed	The Matted Bush-pea occurs in a range of habitats. NSW populations are generally among	Low

Species	Common name	NSW status	Commonwealth Habitat status	Habitat	Likelihood of occurrence on the study site
				woodland vegetation but plants have also been found on road batters and coastal cliffs. It is largely confined to loamy soils in dry gullies in populations in the Windellama area.	
Thesium austral	Austral Toadflax	Vulnerable	Vulnerable Vulnerable	Occurs in grassland on coastal headlands or grassland and grassy woodland away from the coast. Often found in association with Kangaroo Grass (Themeda australis). A root parasite that takes water and some nutrient from other plants, especially Kangaroo Grass.	

4.3 Terrestrial Fauna

4.3.1 Desktop Research

Results of the desktop research are provided in Table 14. A total of 27 threatened fauna species have been recorded within a 10 km radius of the study site. This includes:

- 22 species listed under the TSC Act (including 1 population)
- 8 species listed under the EPBC Act (5 migratory see Table 15)

4.3.2 Fauna Surveys

A list of the species recorded onsite during the survey period is presented in Appendix 2. In total, 14 species were recorded on site, 12 birds and 2 mammals.

Of the 14 species recorded, the introduced Indian Mynah was recorded and the two mammal species recorded were the introduced European Rabbit and Cat.

4.3.3 Habitat Assessment

An overview of the habitat assessment is provided in the Table 13 below.

Table 13: Habitat features onsite for threatened fauna

Habitat Value	Quantity	Description
Hollow Bearing Trees	Low	No hollows were observed
Stags	Low	The site contained no stags,
Connectivity	Low	The site has low connectivity.
Water	Low	No watercourse on site
Rocky Outcrops	Low	There were no rocky outcrops on site.
Leaf Litter	Low to Moderate	The patchy grassy groundcover would provide a minimal level of shelter and foraging for terrestrial fauna

4.3.4 Assessment of Occurrence:

Table 14 below provides the results from desktop and field surveys, it has been determined that there is:

 A low likelihood for the occurrence of 29 threatened species to be present on the study site;

For the species (29) that were found within 10 km of the site, 7 Part Tests of Significance were deemed **not** to be required as no habitat that these species utilise for roosting, breeding and foraging will be removed (Table 18).

Where required, species nationally protected have had an impact assessment undertaken, with respect to the EPBC Act presented in Appendix 3. No nationally protected species were recorded on site, any species recorded within 10km of the site (Tables 14 and 15) are not considered likely to be impacted by the proposed development as, the proposed action will not remove any habitat of which these species might require or utilise.

Species	Common Name	NSW Status	Commonwealth Status	Habitat	Likelihood of occurrence on study site
			Aves	53	
Oxyura australis	Blac-billed Duck	Vulnerable	Not Listed	The Blue-billed Duck prefers deep water in large permanent wetlands and swamps with dense aquatic vegetation. The species is completely aquatic, swimming low in the water along the edge of dense cover. It will fly if disturbed, but prefers to dive if approached.	Low
Botaurus poiciloptilus	Australasian Bittern	Endangered	Endangered	Favours permanent freshwater wetlands with tall, dense vegetation, particularly bullrushes (Typha spp.) and spikerushes (Eleocharis spp.). Hides during the day amongst dense reeds or rushes and feed mainly at night on frogs, fish, yabbies, spiders, insects and snails.	Low
Hieraaetus morphnoides	Little Eagle	Vulnerable	Not Listed	Occupies open eucalypt forest, woodland or open woodland. She-oak or Acacia woodlands and riparian woodlands of interior NSW are also used. Nests in tall living trees within a remnant patch, where pairs build a large stick nest in winter.	Low

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occurrence on study site Likelihood Low Low 5 eucalypt forests and woodlands, particularly in boxspends most of the day on the ground searching for the seeds or grasses and herbaceous plants, or browsing on In summer, generally found in tall mountain forests and wet sclerophyll forests. In winter, may occur at lower woodlands, and often found in urban areas. May also Move to lower altitudes in winter, preferring more open Lives on the edges of eucalypt woodland adjoining Usually seen in pairs or small, possibly family, groups individuals. Prefers to feed in the shade of a tree and woodlands, particularly in heavily timbered and mature altitudes in drier more open eucalypt forests and occur in sub-alpine Snow Gum (Eucalyptus panciflora) and have also been reported in flocks of up to thirty woodland and occasionally in temperate rainforests ironbark assemblages, or in dry forest in coastal areas clearings, timbered ridges and creeks in farmland Favours old growth attributes for nesting and roosting. vegetable matter. Habitat Commonwealth Status Not Listed Not listed Vulnerable Vulnerable NSW Status Gang-gang Cockatoo Common Name Turquoise Parrot Callocephalon fimbriatum Species Neophema pulchella

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Species	Common Name	NSW Status	Commonwealth Status	Habitat	Likelihood of occurrence on study site
Ninox strenua	Powerful Owl	Vulncrable	Not Listed	The Powerful Owl inhabits a range of vegetation types, from woodland and open sclerophyll forest to tall open wet forest and rainforest. The Powerful Owl requires large tracts of forest or woodland habitat but can occur in fragmented landscapes as well. The species breeds and hunts in open or closed sclerophyll forest or woodlands and occasionally hunts in open habitats. It roosts by day in dense vegetation comprising species such as Turpentine <i>Syncorpla glonulifera</i> , Black She- oak <i>Allocasuarina littoralls</i> , Blackwood <i>Acacto</i> <i>melanoxylon</i> , Rough-barked Apple <i>Angophora</i> <i>floribuida</i> , Cherry Ballart <i>Exocorpus</i> <i>cuprestiformis</i> and a number of cucalypt species. Powerful Owls nest in large tree hollows (at least 0.5 m deep), in large cucalypts (diameter at breast height of 80-240 cm) that are at least 150 years old.	Low
Chthonicola sagittata	Speckled Warbler	Vulnerable	Not Listed	The Speckled Warbler lives in a wide range of Eucalyptus dominated communities that have a grassy understorey, often on rocky ridges or in gullies. Typical habitat would include scattered native tussock grasses, a sparse shrub layer, some eucalypt regrowth and an open canopy. Large, relatively undisturbed remnants are required for the species to persist in an area.	Low
Daphoenositta chrysoptera	Varied sitella	Vulnerable	Not listed	This species occurs in Eucalypt forests particularly where rough barked species are found.	Low

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occurrence on study site Likelihood Low Low Low Low 5 Roosting camps are generally located within 20 km of a Prefers lightly wooded country, usually open eucalypt clearings or open areas. Requires structurally diverse habitats featuring mature eucalypts, saplings, some mature and regrowth vegetation. It occasionally occurs This species will occur in tall moist eucalypt forests and be found where there are clearings on areas with an open woodland, acacia scrub and mallee, often in or near small shrubs and a ground layer of moderately tall The Scarlet Robin lives in dry eucalypt forests and with few scattered shrubs. This species lives in both in mallee or wet forest communities, or in wetlands and tea-tree swamps. Scarlet Robin habitat usually contains woodlands where ridges and slopes are present. It will woodlands. The understorey is usually open and grassy abundant logs and fallen timber: these are important sclerophyll forests and woodlands, heaths and swamps regular food source and are commonly found in gullies, Occur in subtropical and temperate rainforests, tall as well as urban gardens and cultivated fruit crops components of its habitat. native grasses. Habitat understory. Mammalia Commonwealth Status Vulnerable Not Listed Not Listed Not Listed Not listed Vulnerable Vulnerable Vulnerable Vulnerable Vulnerable NSW Status Scarlet Robin Flame Robin Grey-headed Flying Fox Common Name Diamond Hooded firetail Robin Petroica boodang poliocephalus Stagonopleura Melanodryas Species phoenicea Pteropus cucultata Petroica gultata

Species	Common Name	NSW Status	Commonwealth Status	Habitat	Likelihood of occurrence on study site
				close to water, in vegetation with a dense canopy.	
Saccolaimus flaviventris	Yellow- bellied Sheathtail bat	Vulnerable	Not Listed	Roosts singly or in groups of up to six, in tree hollows and buildings; in treeless areas they are known to utilise mammal burrows. When foraging for insects, flies high and fast over the forest canopy, but lower in more open country.	Low
Mormopterus norfolkensis	Eastern Freetail Bat	Vulnerable	Not Listed	Occur in dry sclerophyll forest, woodland, swamp forests and mangrove forests east of the Great Dividing Range. Roost mainly in tree hollows but will also roost under bark or in man-made structures.	Low
Chalinolobus dwyeri	Large-cared Pied Bat	Vulnerable	Vulnerable	Roosts in caves (near their entrances), crevices in cliffs, old mine workings and in the disused, bottle-shaped mud nests of the Fairy Martin (Petrochelidon ariel), frequenting low to mid-elevation dry open forest and woodland close to these features. Females have been recorded raising young in matemity roosts (c. 20-40 females) from November through to January in roof domes in sandstone caves and overhangs. They remain loyal to the same cave over many years.	Low
Falsistrellus tasmaniensis	Eastern False Pipistrelle	Vulnerable	Not listed	Found in moist habitats where there is an abundance of trees taller than 20 metres	Low
Miniopterus australis	Little Bent- wing Bat	Vulnerable	Not Listed	Moist eucalypt forest, rainforest, vine thicket, wet and dry sclerophyll forest, Melaleuca swamps, dense coastal forests and banksia scrub. Generally found in well- timbered areas. Little Bentwing-bats roost in caves, tunnels, tree hollows, abandoned mines, stormwater	Low

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			occurrence on study site
		drains, culverts, bridges and sometimes buildings during the day, and at night forage for small insects beneath the canopy of densely vegetated habitats.	
Eastern Vulnerable Bentwing-bat	Not Listed	Caves are the primary roosting habitat, but also use derelict mines, storm-water tunnels, buildings and other man-made structures. Hunt in forested areas, catching moths and other flying insects above the tree tops.	Low
Myotts macropus Southern Vulnerable Myotis	Not listed	Generally roost in groups of 10 - 15 close to water in caves, mine shafts, hollow-bearing trees, storm water channels, buildings, under bridges and in dense foliage. Forage over streams and pools catching insects and small fish by raking their feet across the water surface.	Low
Greater broad Vulnerable nosed bat	Not listed	This species occurs in a wide range of habitats. It is mostly found in tall wet forest. Forages along creek and river edges.	Low
	Gastropods	spo	

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pro	wided in Table 15	provided in Table 15. A total of 5 migratory species have been recorded within a 10km radius of the study	s of the study
uo	onsite during the fauna surveys.	ia surveys.	
d f	id field surveys, it ha study site.	d field surveys, it has been determined that there is a low likelihood of the occurrence of the 5 migratory study site.	e 5 migratory
÷	showing the occurn	ch, showing the occurrence of migratory species within a 10km radius of the site (C=CAMBA; J=JAMBA,	Α,
	Commonwealth Status	Habitat	Occurrence on Study Site
0.1254	cı	The Cattle Egret occurs in tropical and temperate grasslands, wooded lands and terrestrial wetlands. he Cattle Egret often forages away from water on low lying grasslands, improved pastures and croplands. It is commonly found in cattle fields and other farm areas that contain livestock.	Low
2017	J	The White-bellied Sea-Eagle is found in coastal habitats (especially those close to the sea-shore) and around terrestrial wetlands in tropical and temperate regions of mainland Australia and its offshore islands. The habitats occupied by the sea-cagle are characterised by the presence of large areas of open water (larger rivers, swamps, lakes and the sea).	Low

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Migratory Species 4.4

4.4.1 Desktop Research

Results of the desktop research are pr site.

4.4.2 Fanna Surveys

No migratory species were recorded o

4.4.3 Assessment of Occurrence

In collating results from desktop and species potentially occurring on the st

Table 15. Results of the Desktop research K=ROKAMBA)

	Common Name	NSW Status	Commonwealth Status	Habitat	Occurrence on Study Site
2	Cattle Egret	Not Listed	G	The Cattle Egret occurs in tropical and temperate grasslands, wooded lands and terrestrial wetlands. he Cattle Egret often forages away from water on low lying grasslands, improved pastures and croplands. It is commonly found in cattle fields and other farm areas that contain livestock.	Low
laliaeetus rucogaster	While- bellied Sea Eagle	Not Listed	J	The White-bellied Sea-Eagle is found in coastal habitats (especially those close to the sea-shore) and around terrestrial wetlands in tropical and temperate regions of mainland Australia and its offshore islands. The habitats occupied by the sea-eagle are characterised by the presence of large areas of open water (larger rivers, swamps, lakes and the sea).	Low

Common Name	n NSW Status	Commonwealth Status	Habitat	Occurrence on Study Site
Red Knot	knot Not Listed	C, J, K	In Australasia the Red Knot mainly inhabit intertidal mudflats, sandflats and sandy beaches of sheltered coasts, in estuaries, bays, inlets, lagoons and harbours; sometimes on sandy occan beaches or shallow pools on exposed wave-cut rock platforms or coral reefs. They are occasionally seen on terrestrial saline wetlands near the coast, such as lakes, lagoons, pools and pans, and recorded on sewage ponds and saltworks, but rarely use freshwater swamps. They rarely use inland lakes or swamps	Low
Latham's Snipe	m's Not Listed	C, J, K	In Australia, Latham's Snipe occurs in permanent and ephemeral wetlands up to 2000 m above sea-level. They usually inhabit open, freshwater wetlands with low, dense vegetation (e.g. swamps, flooded grasslands or heathlands, around bogs and other water bodies). However, they can also occur in habitats with saline or brackish water, in modified or artificial habitats, and in habitats located close to humans or human activity.	Low
Rainbow Bee Eater	ow Not cater Listed	7	This species occurs mainly in open forests and woodlands, shrublands, and in various cleared or semi-cleared habitats, including farmland and areas of human habitation. It usually occurs in open, cleared or lightly-timbered areas that are often, but not always, located in close proximity to permanent water.	Low

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4.5 Key Threatening Processes

Key threatening processes listed under the Environmental Protection and Biodiversity Conservation Act (1999) and Threatened Species Act (1995) relevant to the site have been listed in Table 16.

Where the proposal is shown to contribute to KTP, these are further considered in section 5.

Table 16: Key threatening processes relating to the development

Threatening Process	Act	Likely to Occur on site at present	Proposal may Contribute
Bushrock removal	TSC	No	No
Clearing of native vegetation	TSC/EPBC	No	Yes
High frequency fire resulting in the disruption of life cycle processes in plants and animals and loss of vegetation structure and composition	TSC/EPBC	No	No
Invasion of native plant communities by exotic perennial grasses	TSC	Yes	No
Loss and degradation of native plant and animal habitat by invasion of escaped garden plants, including aquatic plants	TSC/EPBC	Yes	No
Herbivory and environmental degradation caused by feral deer	TSC	Yes	No

Note: The native vegetation that the proposal will remove will be the Acacia regrowth, which is found on Lot 14, the road and proposed drainage basin, no specific vegetation community will be removed for the proposal.

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5. Impacts of the Proposed Development

5.1 Potential Impacts on Endangered Ecological Communities (EECs)

The proposed action will not have any significant effect on any Endangered Ecological Community as no EEC's were detected during the vegetation survey, and the closest that any EEC was mapped to the site was 500 metres to the East and 770 Metres to the South West (see figure 2).

5.2 Potential Impacts on Threatened Flora Species

The proposal is unlikely to cause the following impacts on threatened flora species:

- Removal of habitat
- · Individual death or injury
- · A disturbance to reproduction
- · Functional and structural changes within flora populations

Table 17 provides a justification for the conduct of a Seven Part Test, in relation to individual flora species.

This assessment has determined that the development will **NOT** have a significant impact upon the seven threatened flora species recorded within 10 km of the site (Table 17), as there will not be any suitable habitat removed.

It has been determined that these species **do not** require that a seven part test is to be applied as part of this assessment (See Table 17).

An assessment of considerations under the *Environmental Protection and Biodiversity Conservation Act* (1999) has also determined that it is **unlikely** that this development will lead to the local extinction of the five threatened species listed (Table 12).

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Table 17: The potential impact on threatened flora species that have habitat represented on site, and whether a Seven Part Test is required (TSC Act has been Impact assessment ŝ °Z 2° No ^oZ °Z applied? Disturbance to reproduction Unlikely Unlikely Unlikely Unlikely Unlikely Unlikely Individual death or injury Unlikely Unlikely Unlikely Unlikely Unlikely Unlikely Endangered Endangered EPBC Act Vulnerable Vulnerable Not Listed Not Listed Endangered Endangered Endangered Endangered Endangered Vulnerable **TSC Act** Marsdenia viridiflora subsp. Pultenaea pedimculata Eucalyptus benthamit Pomaderris brunnea Cynanchum elegans Scientific Name Pimelea spicata Viridiflora applied)

No

Unlikely

Unlikely

Vulnerable

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7 Part Test

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5.3 Potential Impacts on Threatened Fauna Species

The potential impacts of the proposal on threatened fauna species, can be assessed by utilising the information from Table 14 (regarding the potential habitat available), and whether a threatened species was recorded on site; this information is used to determine if the proposal is likely to cause any of the following impacts on threatened fauna species:

- Death of individuals
- Injury of individuals
- · Reduction and loss of breeding resources
- · Reduction and loss of foraging resources
- Disturbance to a larger habitat area
- · Loss of connectivity within and between habitats

Table 18 outlines the potential impacts that the proposal may have on threatened species and determines whether a Seven Part Test (TSC Act) is to be applied.

As the proposed action will not remove any habitat that these species will utilise, it has been determined that it is **unlikely** that the proposed action will cause:-

- · any death or injury to any of these species,
- · a reduction and loss of breeding resources and foraging resources for these species,
- a disturbance to a larger habitat area for these species
- · a loss of connectivity within and between habitats for these species

It has been determined that these species **do not** require that a seven part test is to be applied as part of this assessment (See Table 18).

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Common name	Scientific name	TSC Act	EPBC Act	Individual death or injury	Loss or disturbance to limiting of foraging resources	Loss or disturbance of breeding resources	Impact assessment applied?
Blue-billed Duck	Hirundopus caudacutus	Vulnerable	Not Listed	Unlikely	Unlikely	Unlikely	No
Cattle Egret	Ardea ibis	Not Listed	C, J	Unlikely	Unlikely	Unlikely	No
Australasian Bittern	Botaurus poiciloptilus	Endangered	Endangered	Unlikely	Unlikely	Unlikely	No
White-bellied sea cagle	Haliaeetus leucogaster	Not Listed	J	Unlikely	Unlikely	Unlikely	No
Little Eagle	Hieraaetus morphnoides	Vulnerable	Not Listed	Unlikely	Unlikely	Unlikely	No
Red Knot	Calidris comutus	Not Listed	C, J, K	Unlikely	Unlikely	Unlikely	No
Latham's Snipc	Gallinago hardwickii	Not Listed	C, J, K	Unlikely	Unlikely	Unlikely	No
Gang-gang Cockatoo	Callocephalon fimbriatum	Vulnerable	Not Listed	Unlikely	Unlikely	Unlikely	No
Little Lorikeet	Glossopsitta pusilla	Vulnerable	Not Listed	Unlikely	Unlikely	Unlikely	No
Torquoise Parrot	Neophema pulchella	Vulncrable	Not Listed	Unlikely	Unlikely	Unlikely	No

Powerful Owl	Ninox strema	Vulnerable	Not Listed	Unlikely	Unlikely	Unlikely	No.
Rainbow bee Eater	Merops ornatus	Not Listed	-	Unlikely	Unlikely	Unlikely	No
Speckled warbler	Chthonicola sagittata	Vulnerable	Not listed	Not likely	Unlikely	Not likely	No
Varied sittella	Daphoenositta chrysoptera	Vulnerable	Not listed	Unlikely	Unlikely	Unlikely	No
Hooded Robin	Melanodryas cucultata	Vulnerable	Not Listed	Unlikely	Unlikely	Unlikely	No
Scarlet Robin	Petroica boodang	Vulnerable	Not Listed	Unlikely	Unlikely	Unlikely	No
Flame Robin	Petroica phoenicea	Vulnerable	Not listed	Unlikely	Unlikely	Unlikely	No
Grey-headed flying fox	Pteropus polioceohaius	Vulnerable	Vulnerable	Unlikely	Unlikely	Unlikely	No
Saccolaimus flaviventris	Yellow-bellied Sheathtail Bat	Vulnerable	Not Listed	Unlikely	Unlikely	Unlikely	No
Eastern Freetail Bat	Mormopterus nofolkensis	Vulnerable	Not Listed	Unlikely	Unlikely	Unlikely	No
Large-cared Pied Bat	Chalinolobus dwyeri	Vulnerable	Vulncrable	Unlikely	Unlikely	Unlikely	No
Eastern False Pipistrelle	Falsistrellus tasmaniensis	Vulnerable	Not Listed	Unlikely	Unlikely	Unlikely	No

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Little Bent-wi Bat	Little Bent-wing Miniopterus Bat anstralis	Vulnerable	Not Listed	Unlikely	Unlikely	Unlikely	oN
Eastern Bentwing-bat	Miniopterus schreibersti oceanensis	Vulnerable Not Listed	Not Listed	Unlikely	Unlikely	Unlikely	N
Southern Myotis	Myotis macropus	Vulnerable	Not listed	Unlikely	Unlikely	Unlikely	No
Greater Broa nosed Bat	Greater Broad- Scoteanax nosed Bat rueppellii	Vulnerable	Vulnerable Not Listed	Unlikely	Unlikely	Unlikely	No
Cumberland Plain Land Sn	Cumberland Meridolium Plain Land Snail cornoevirens	Endangered Not Listed	Not Listed	Unlikely	Unlikely	Unlikely	No

6. Conclusion

This report assesses whether any threatened flora and fauna species, endangered populations and endangered ecological communities, are likely to be impacted upon by the proposed residential development. It addresses the *Threatened Species Conservation Act* (1995) and the *Environmental Protection and Biodiversity Conservation Act* (1999).

No threatened species, endangered populations or endangered ecological communities listed on the schedules of the NSW Threatened Species Conservation Act 1995, or the Commonwealth Environment Protection and Biodiversity Conservation Act 1999 were recorded in the study area.

Following an assessment for the application of the seven factors from Section 5A of the NSW Environmental Planning and Assessment Act 1979, as required by the NSW Threatened Species Conservation Act 1995, in accordance with relevant assessment guidelines, it is concluded that the proposal is unlikely to have a significant effect on threatened species, endangered populations, ecological communities, or their habitats.

A Species Impact Statement is not required for the proposal.

Following consideration of the administrative guidelines for determining significance under the Commonwealth Environment Protection & Biodiversity Conservation Act 1999, it is concluded that the proposal is unlikely to have a significant impact on matters of National Environmental Significance or Commonwealth land, and a referral to the Commonwealth Environment Minister is not necessary.

A number of impact mitigation and amelioration strategies have been recommended for the proposal. These strategies mitigate the effects of the proposal on threatened species, endangered populations, ecological communities, or their habitats and minimise the impacts of the proposal on the flora and fauna values of the study area in general.

7. Recommendations

The following recommendations are suggested in order to mitigate and ameliorate the impacts of the proposal on threatened flora and fauna species and endangered communities:

Vegetation Removal:

- Clearing for the proposal should be undertaken such that areas of native vegetation to be retained are not impacted upon during construction works.
- Invasive exotic perennial grass species listed in the Final Determination of the NSW Scientific Committee for this key threatening process (Appendix B) should not be sown within 10m of vegetation to be retained intact. Sterile cover crops should be sown if necessary to stabilise exposed surfaces, and native grasses or non-invasive exotic grasses should be sown to provide the final vegetative cover in these areas if required.
- Native plants from the species list in Appendix 2 of this report should be considered in any landscaping for the proposal.
- · Known weed or invasive species should not be planted for landscaping purposes.
- · Any invasive weeds and escaped garden plants should be removed from the site.

Offsetting the Impacts:

- If any fauna is injured during construction works WIRES should be called immediately.
- Appropriate sediment control measures should be established before the commencement of work on the proposal and retained in place until all bare areas have been revegetated.
- Vehicles and earthmoving machinery should only be parked in restricted areas in order to protect the off-site habitat surrounding the study site.

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Attachment

8. References

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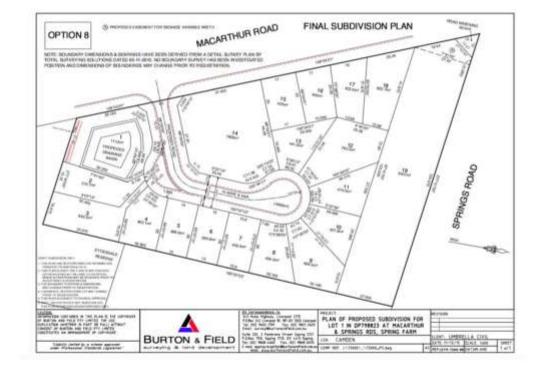
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Appendix 1: Detailed Site Plan

Figure 3: Plans for the proposed action at 10 Springs Road, Spring farm

Appendix 2: Species Recorded Onsite

Flora

* Denotes exotic species

Plant Family	Scientific Name	Common Name	Conservation/Weed	
Alliaceae	Agapanthus praecox*	Agapanthus		
Apocynaceae	Nerium oleander*	Oleander		
Apocynaceae	Vinca major*	Blue periwinkle		
Asclepiadaceae	Araujia hortorum*	Moth Vine		
Asphodelaceae	Aloe vera*	Aloe Vera	-	
Asteraceae	Bidens pilosa*	Cobblers Pegs		
Asteraceae	Convza albida*	Fleabane		
Asteraceae	Onopordum acanthium*	Scotch Thistle		
Asteraceae	Senecio madagascariensis*	Fireweed	Class 4 Noxious Weed	
Asteraceae	Targetes minuta*	Stinking Roger		
Balsaminaceae	Impatiens walleriana*	Impatiens		
Bignoniaceae	Jacaranda mimosifolia*	Jacaranda		
Bignoniaceae	Campsis radicans*		Garden Planting	
Bignoniaceae	Macfadvena ungus*	Cat's Claw Creeper	Garden Planting	
Commelinaceae	Tradescantia fluminensis*	Wandering Jew		
Convolvulaceae	Ipomoea indica*	Blue morning Glory		
Dennstaedtiaceae	Pteridium esculentum	Bracken		
Fabaceae	Acacia decurrens	Black Wattle		
Fabaceae	Acacia parramattenis	Parramatta Wattle		
Fabaceae	Senna pendula*	Easter Cassia		
Fabaceae	Olex europaeus*	Gorse		
Malvaceae	Sida rhombifolia*	Arrowleaf Sida		
Malvaceae	Modiola caroliniana*	Red Flower Mallow		
Moraceae	Ficus macrophylla	Moreton Bay Fig	Garden planting	
Myrsinaceae	Anagallis arvensis*	Scarlet Pimpernel		
Myrtaceae	Corymbia macualta	Spotted Gum	1 tree only	
Myrtaceae	Eucalyptus robusta	Swamp Gum	1 tree only	
Myrtaceae	Eucalyptus spp.	Unknown (Garden)	1 tree only	
Oleaceae	Ligustrun lucidium*	Large leaved Privet		
Oleaceae	Ligustrum sinense*	Small leaved privet		
Oleaceae	Olea europea*	African Olive		
Oxalidaceae	Oxalis corniculata*	Yellow Wood Sorrel		
Oxalidaceae	Oxalis bowiei*	Bowie Wood Sorrel		
Oxalidaceae	Oxalis articulate*	Shamrock Oxalis		
Oxalidaceae	Oxalis debilis*	Pink Shamrock		
Plantaginaceae	Plantago lanceolata*	Lambs Tongue		
Plantaginaceae	Plantago major*	Greater Plantain		
Poaceae	Aristida vagans	Three-awn Speargrass		
Poaceae	Cymbopogon refractus	Barbed Wire Grass		
Poaceae	Cynodon dactylon*	Couch		

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Poaceae	Eragrotis curvula*	African Love Grass	
Poaceae	Paspalum dilitatum*	Paspalum	
Poaceae	Pennisetum clandestimum*	Kikuyu	
Poaceae	Poa labilliardieri	Tussock Grass	
Poaceae	Themeda australis	Kangaroo Grass	
Primulaceae	Anagallis arvensis*	Pimpernel	
Proteceae	Grevillea spp.	Robin Gordin	Garden Planting
Proteceae	Grevillea spp.	Honey Gem	Garden Planting
Proteaceae	Grevillea robusta	Silky Oak	Garden Planting
Solanaceae	Solanum mauritianum*	Wild Tobacco	
Solanaceae	Solanum sisymbriifolium*	Sticky Nightshade	
Strelitziaceae	Strelizea reginae*	Bird of Paradise	
Theaceae	Camellia spp.*	Cammellia	
Verbenaceae	Lantana camara*	Lantana	Class 4 Noxious Weed
Verbenaceae	Verbena bonariensis*	Purple Top	

Attachment 6

Fauna *Denotes introduced species

SCIENTIFIC NAME	COMMON NAME		
Aves			
Acanthiza chrysorrhoa	Yellow Rumped Thornbill		
Rhipidura leucophrys	Willy Wagtail		
Gymnorhina tibicen	Magpie		
Grallina cyanoleuca	Magpie Lark		
Acridotheres tristis*	Mynah Bird*		
Hirundo neoxena	Welcome Swallow		
Neochmia temporalis	Red-browed Finch		
Corvus coronoides	Raven		
Dacelo novaeguineae	Kookaburra		
Ocyphaps lophotes	Crested Pidgeon		
Malurus cyaneus	Superb Blue Wren		
Anthochaera chrysoptera	Brush Wattlebird		
Mammals			
Oryctolagus cuniculus*	European Rabbit (scat)*		
Felis catus*	Cat*		

Appendix 3: EPBC Act Considerations

An assessment of the impact of the proposed development upon threatened species, populations, ecological communities, World Heritage values, and migratory species listed under the *Environment Protection and Biodiversity Conservation Act 1999* are listed below.

Impacts on threatened species and ecological communities

An action has, will have, or is likely to have a significant impact on a threatened species if it does, will, or is likely to:

- Lead to a long-term decrease in the size of a population
- Reduce the area of occupancy of the species
- · Fragment an existing population into two or more populations
- Adversely affect habitat critical to the survival of a species
- · Disrupt the breeding cycle of a population
- Modify, destroy, remove, isolate, or decrease the availability or quality of habitat to the extent that the species is likely to decline
- Result in invasive species that are harmful to a critically endangered or endangered species becoming established in the endangered or critically endangered species habitat; or
- · Interfere with the recovery of the species

Critically endangered and endangered species

No critically endangered or endangered species were observed on the subject site, however potential habitat exists for the endangered species *Cynanchum elegans, Pimelea spicata.* These species were not detected in the study area however may potentially occur in the soil seedbank.

It is considered that the proposed development will not disrupt the lifecycle of these species such that any potentially viable local population would be placed at increased risk of extinction. The potential impacts of the proposed development is not likely to lead to significant exacerbation of those points listed above.

Vulnerable Species

No vulnerable species were recorded at the study site, however potential habitat exists for the vulnerable flora species *Eucalyptus benthamii*, *Pomaderris brunnea* and *Thesium australe*. These species were not detected in the study area however may potentially occur in the soil seedbank.

It is considered that the proposed development will not disrupt the lifecycle of these species such that any potentially viable local population would be placed at increased risk of extinction. The potential impacts of the proposed development is not likely to lead to significant exacerbation of those points listed above.

Critically endangered and endangered ecological communities

An important population is one that is necessary for a species long-term survival and recovery. This may include populations that are:

- · Key source populations either for breeding or dispersal
- · Populations that are necessary for maintaining genetic diversity; and/or
- · Populations that are near the limit of the species range.

No Critically Endangered or Endangered Ecological Communities were detected or mapped on the site. It is highly unlikely that the proposed action will have a detrimental effect on any ecological community in the area.

Impacts on migratory species

An action has, will have, or is likely to have a significant impact on a migratory species if it does, will, or is likely to:

- Substantially modify (including by fragmenting, altering fire regimes, altering nutrient cycles or altering hydrological cycles), destroy or isolate an area of important habitat of the migratory species;
- Result in invasive species that are harmful to the migratory species, and prevent the species becoming established in an area of important habitat;
- Seriously disrupt the lifecycle (breeding, feeding, migration or nesting behaviour) of an ecologically significant proportion of the population of the species.

An area of important habitat is:

- Habitat utilised by a migratory species occasionally or periodically within a region that supports an ecologically significant portion of the population of the species
- · Habitat utilised by a migratory species which is at the limit of the species range; or
- · Habitat within an area where the species is declining.

Five (5) migratory species (Cattle egret, White-bellied Sea Eagle, Red Knot, Latham's Snipe and Rainbow Bee Eater), were recorded within a 10km radius of the site (Table 15). The proposed development will not significantly decrease habitat available for these species, or disrupt the lifecycle of these species such that viable populations are likely to be placed at risk of extinction. The proposed development is therefore not likely to have a significant impact on these species and is not likely to result in any points listed above under the migratory species provisions of the EPBC Act.

EPBC Act Assessment

- The proposed action will not significantly impact on any of the 5 flora and 3 fauna species listed under the EPBC Act and recorded within a 10 km radius of the site (Tables 12 and 14).
- The proposed action will not significantly impact on any Critically Endangered or Endangered Ecological Community on the site or area.
- The proposed action will not significantly impact upon the 5 migratory species that are listed under the EPBC Act and recorded within a 10km radius of the site (Table 15).

Referral Recommendation

The proposed development will **not** require referral to the Commonwealth Minister for the Environment for consideration under the EPBC Act.



Benjamin Streat Streat Archaeological Services PO Box 114 Enmore NSW Australia 2042 Phone: 02 9564 2206 streatarchaeological@netspace.net.au

15 August 2016

Heritage Officer Camden Council 70 Central Avenue Oran Park, NSW 2570

Dear Sir or Madam

Re: Preparation of Aboriginal Archaeological Assessment, Aboriginal Cultural Heritage Assessment and archaeological test excavation under the Code of Conduct for an area of land located Lot 1, DP 798823, 10 Springs Road, Spring Farm, New South Wales.

Streat Archaeological Services Pty Ltd in association with AMAC Group has been commissioned by Rayland Developments Pty Ltd (c/o Raymond Laoulach, Managing Director, Rayland Developments, Po Box 167, Guildford, NSW 2161) to conduct an Aboriginal Archaeological Assessment and an Aboriginal Cultural Heritage Assessment and archaeological test excavation under the Code of Conduct for an area of land located at 10 Springs Road, Spring Farm, New South Wales. The proposed works is for the subdivision of the above mentioned property.

As per the Office of Environment, and Heritage [sic] Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010, we are required to contact the Camden Council in order to identify any registered Aboriginal stakeholder groups who may have an interest in the project

Could you please provide the contact details of any Aboriginal community groups or individuals registered with council who may have an interest.

Yours sincerely

Billie

Benjamin Streat (Managing Director) Streat Archaeological Services Pty Ltd Received IMU 18 AUG 2016 Camden Council



TOWN PLANNING AND HERITAGE CONSULTANTS

HERITAGE IMPACT STATEMENT

For:

Demolition of the existing dwelling house and subdivision of land

Date:

April 2016

Address:

10 Springs Road, Spring Farm

Prepared by:

Edwards Planning Town Planning & Heritage Consultants

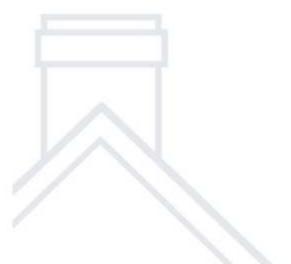
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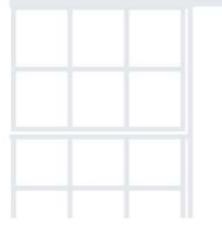
(02) 4589 3049

enquiry@edwardsplanning.com.au www.edwardsplanning.com.au

Prepared for:

Olmoty Pty Ltd





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Project No.	Date of Issue	Revision	Issue	Prepared	Reviewed
EP2016/0116	15/04/2016	A	DRAFT		
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			1	Michael Edwards	Michael Edwards
				Pancipal Consultant	Principal Consultant

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1.0 INTRODUCTION

1.1 Context of the report

This Heritage Impact Statement has been prepared at the request of Olmoty Pty Ltd to assess the potential heritage impacts and to accompany a Development Application, which seeks approval for demolition of the existing dwelling and subdivision of land at 10 Springs Road, Spring Farm.

The report considers:

- 1. What impact the proposed works will have on the identified heritage significance;
- 2. What measures are proposed to mitigate negative impacts;
- 3. Why more sympathetic solutions are not viable;
- 4. Recommendations to mitigate heritage impacts.

1.2 Methodology

This report has been prepared in accordance with the general methodology and guidelines set out in the Heritage Council of NSW publication 'Statements of Heritage Impact' as contained in the NSW Heritage Manual.

The overarching philosophy and approach to this report is guided by the conservation principles and guidelines of the Australia ICOMOS Charter for the Conservation of Places of Cultural Significance (Burra Charter 2013).

The assessment criteria developed by the Heritage Council of NSW as contained in the NSW Heritage Manual is used to assess and establish the cultural significance of the subject site.

A visual examination of the subject site has been undertaken, which is followed by a merit and significance based desktop assessment of the development proposal.

The potential, actual and / or perceived heritage impacts stemming from the development proposal have been assessed with reference to the *Camden Local Environmental Plan 2010*, the *Camden Development Control Plan 2011* and the Heritage Council of NSW assessment criteria.

1.3 Authorship

This Heritage Impact Statement has been prepared by Michael Edwards B.Env.Pian M.Hert.Com JP, Principal Town Planner and Heritage Specialist for Edwards Planning.

Mr Edwards has 10 years extensive experience in both the town planning and heritage conservation disciplines and has held previous positions in Local and State Government. Mr Edwards has previously worked with the Heritage Division of the NSW Office of Environment and Heritage and is currently Heritage Advisor to the City of Ryde Council.

Unless otherwise noted, all contemporary photography in this report is by Edwards Planning.

1.4 Limitations

This Heritage Impact Statement:

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- Is limited to the investigation of the non-Aboriginal cultural heritage of the site. Therefore, it
 does not include any identification or assessment of Aboriginal significance of the place.
- Is limited to a due-diligence archaeological assessment only and does not present a detailed archaeological assessment of the site.
- Does not provide a structural assessment or advice. Subsequently, this report should be complemented by advice from a Structural Engineer with demonstrated heritage experience.
- Does not provide a detailed merit-based assessment of the development controls relating to heritage items or development within the vicinity of heritage items as contained within the *Camden DCP 2011*. The heritage impact assessment does however, have general regard to the relevant development controls and requirements.

1.5 Terminology

The terminology used throughout this report is consistent with the NSW Heritage Manual and the Burra Charter.

A glossary of common terms used is listed in Appendix A.

1.6 Physical Evidence

A visual examination of the site and the surrounding area was undertaken on 6th April 2016.

All contemporary photography used in Section 2 of this report was captured at this time.

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2.0 SITE ASSESSMENT

2.1 Context

The site is situated within the Camden local government area and comprises Lot 1 in Deposited Plan No.798823, commonly known as 10 Springs Road, Spring Farm (Figures 1 and 2).



Figure 1: Aerial view of the locality. [Source: NSW Land and Property Information, 2016]



Figure 2: Aerial view of the site. [Source: NSW Land and Property Information, 2016]

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HERITAGE IMPACT STATEMENT - 10 Springs Road, Spring Farm

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2.2 Description of the site

Inherent characteristics

The subject site is situated on a street corner, bound by Macarthur Road to the west and Springs Road to the north. The site is situated within a predominantly rural landscape, although the precinct is presently undergoing change to an urban residential character.

The site is triangular in shape and ranges in width from 136.5m to \$2.71m and has an average depth of 160m. In total, the site comprises an area of 1.619ha (or 16,190sqm).



Figure 3: View from Macarthur Road facing towards the subject site and Spring Road.



Figure 4: View of the subject site facing east.



Figure 5: View of the subject site facing southeast.



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Figure 6: View of the subject site facing south along Figure 7: View of the site facing east. Macarthur Road.

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Form, materiality and detailing

The subject site contains a single-storey, detached-style dwelling house, which is situated towards the northwestern corner of the site.

The dwelling is of a modest scale and form, and despite its present dilapidated condition, displays the principal characteristics that are attributed to the domestic vernacular of the Inter-War period (c1920s construction) and displays stylistic features that identify it as belonging to the 'Californian Bungalow' architectural style.

The dwelling is rectangular in its footprint and is typically of timber frame construction with fibrous cement sheet cladding to the external and internal walls. The roof is gabled, with planar timber bargeboards, fibrous cement sheet clad soffits and corrugated sheet metal cladding to the roof. A smaller gable projects forward of the front (western) elevation with an enclosed verandah projecting further forward and wrapping around to the northern elevation (fronting Springs Road).

There are two masonry chimneys which punctuate the roof line, with one chimney on the north facing roof plane and one on the eastern (rear) facing roof plane. The rear chimney retains a pair of terracotta chimney pots.



Figure 8: View of the northwestern front corner of the dwelling.



Figure 9: View of the front elevation.

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Interior

An examination of the dwelling's interior was undertaken which demonstrates the advanced deteriorated state of the fabric.

The interior comprises two bedrooms, a bathroom, laundry, kitchen, living / lounge room, hallway, and an enclosed verandah or 'sunroom'.

Flooring is timber tongue-and-groove boards with soft carpet furnishings. Walls are timber framed with fibrous cement sheet cladding. Ceilings are fibrous cement sheet clad with timber battens.

Windows are consistently of timber frame construction and double-hung sashes. While the majority of internal doors have been replaced, skirtings, picture rails and architraves generally remain intact.



Figure 10: View of the rear dining room.



Figure 11: View of the kitchen.



Figure 12: View of the enclosed front verandah.



Figure 14: View of the front bedroom.



Figure 13: View of the front bedroom.



Figure 15: View of the rear bedroom.

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HERITAGE IMPACT STATEMENT - 10 Springs Road, Spring Farm



Figure 16: View of the front lounge room.

Landscape and setting

The dwelling is situated towards the northwestern corner of the site and within close proximity to Springs Road and Macarthur Road.

The remainder of the site comprises open grassed paddocks with mature vegetation cover within the immediate vicinity of the dwelling house.

The site is predominantly of a rural character.



Figure 17: View of the mature treed canopy at the rear of Figure 18: View of the open paddocks facing east. the dwelling.



Figure 19: View facing northeast over Springs Road.





Figure 20: View of the landscape at the rear of the dwelling.

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Figure 21: View facing south.



Figure 22: View facing east over the adjoining public park.



Figure 23: View facing north towards the dwelling house.



Figure 24: View facing south.



Figure 25: View facing north along Macarthur Road.

2.3 Streetscape contribution

The dwelling presently has an indirect relationship with the streetscape and is not considered visually prominent, with only filtered views of the dwelling from Macarthur Road and Springs Road, obscured by existing vegetation.

Subsequently, the dwelling has a quiet contribution to the streetscape. Were the vegetation to be removed, direct views of the dwelling would be achieved. However, the dwelling is of a scale and form that would not be visually prominent within the streetscape.

2.4 Integrity and condition

The integrity of a site, in terms of its heritage significance, can exist on a number of levels. For instance, a site may be an intact example of a particular architectural style or period and thus have a high degree of significance for its ability to illustrate that style or period.

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Equally, heritage significance may arise from a lack of architectural integrity where the significance lies in an ability to illustrate an important evolution to the building or change in use.

Examination of the extant built form and fabric, reveals that the building has been previously modified, although the principal characteristics of the 'Californian Bungalow' architectural style remain and retaining the overall silhouette and form.

However, the dwelling is in an extremely poor condition due to it sitting vacant for some time resulting in a lack of maintenance and inspection as well as substantial vandalism through persons squatting and wilful destruction.

The interior and exterior of the dwelling has been substantially damaged, with missing fabric, including segments of wall and roof cladding and windows.

Subsequently, the dwelling has little architectural interest and value and has a low degree of integrity.

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3.0 HISTORICAL OVERVIEW

3.1 Introduction

The following historical overview is important for its contribution to the assessment of cultural significance and is based on primary and secondary sources referenced throughout.

It is not intended to present a comprehensive history of the property, but rather to provide an overview of the historical development, including significant events and changes which have impacted on, and shaped the property.

The historical analysis also builds on existing extensive publication and research and assumes a prior knowledge of the pre-1788 Aboriginal history and early European history of the Camden district.

3.2 First land grant

The subject site forms part of 850 acres originally granted by Governor Lachlan Macquarie to Surveyor John Oxley in 1815, which Oxley named 'Ellerslie' [sic], changing to 'Elderslie' by 1828.

This grant of 850 acres, followed an earlier grant of 1000 acres by Macquarie to Oxley in the previous year, to which Oxley gave the name 'Kirkham' after his birthplace in Yorkshire.

Oxley's Elderslie grant adjoined numerous smaller grants, which had been given by the Crown between 1812 and 1815¹.

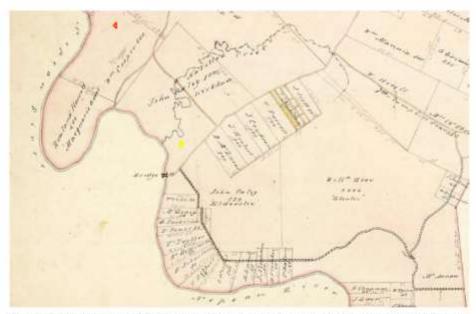


Figure 26: Extract of the map of the Parish of Narellan, c1820s showing John Oxley's Kirkham Estate from 1814 (red outline) and Elderslie Estate from 1815 (yellow outline). [Source: NSW Land and Property Information, 2016]

Willis, I. Undated. 'Elderslie'.

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The village of Elderslie was planned along the Great Northern Road (now Camden Valley Way) with a subdivision and provision made for a church, parsonage and market place.

Some of the village blocks were sold around 1841, but within three months after the Elderslie town allotments were offered for sale, the village was effectively overwhelmed by land sales across the river in adjoining Camden².

By the 1850s, title deeds reveal that the Elderslie Estate had been acquired by Charles Campbell, a Barrister, who had also acquired a number of the smaller allotments fronting the Nepean River. The Camden News of December 13, 1900' on recollecting the 'Elderslie of Old' records that Campbell had the estate surveyed into village and farm lots.

With the additional allotments, the size of the Elderslie Estate had increased from Oxley's original grant of 800 acres, to now comprise an area of 1,430 acres.

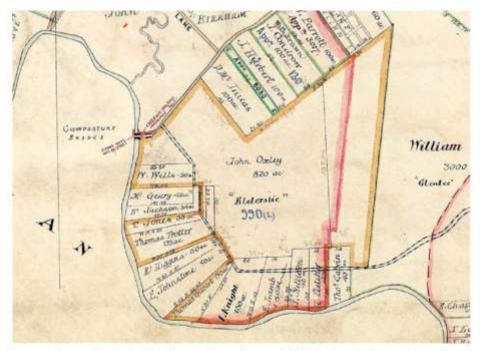


Figure 27: Extract of the Parish of Narellan map, showing the expanded Elderslie Estate by the 1850s (denoted by red outline).

[Source: NSW Land and Property Information, 2016]

3.3 Elderslie Estate

Campbell had the Estate surveyed in the 1840s, creating the village of Elderslie and adjoining farming allotments. Between 1847 and 1852, much of the land had been disposed of, with the farming allotments 'making comfortable homesteads".

Ibid.

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Willin, I. Undated. 'Elderslie'.

Camden News, 1900. 'Eldershe of Old' Thursday, December 13, 1900.

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Figure 28: Plan showing the Elderslie Estate subdivision of the 1840s-1850s. (Note: The Deposited Plan includes a notation advising that this is a copy from 'Finche's map in 1846...') [Source: NSW Land and Property Information, 2016. Deposited Plan 979346]

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On the 28th February 1854, a Deed of Conveyance records that Charles Campbell sold part of the Estate to Edward Palmer⁵.

By early February 1886, Edward Palmer had sold his portion of the Elderslie Estate, transferring to Charles Thomas Whiteman⁶, a Storeman.

Charles Whiteman sold his allotment on 16th April 1891, transferring to John Bensley, a farmer from Camden, for the sum of two hundred and fifty pounds and two shillings. The land comprised two individual portions, then separated by a roadway. The first portion comprised an area of 'eight acres two roods thirty-four and one half perches' (being part of Lots 57 and 58 of the Elderslie Estate) and the second portion, comprising 'sixteen acres one rood half a perch' (being a further part of Lots 57 and 58 of the Elderslie Estate)⁷.

In early August 1892, John Bensley sold the land to Thomas Albury, a Farmer from Camden, together with his wife, Charlotte Albury of the first part and the second part to Charles Thomas Whiteman (who incidentally had been a previous owner of the allotment), who was by now recorded as being a 'Gentleman from Camden'.

A sum of three hundred and twenty pounds had been paid for the land.

3.4 20th Century

Charlotte Albury died late May 1902 and the property transferred into the sole ownership of her husband[#]. Thomas Albury retained ownership of the property for much of the next thirty-five years, before selling in 1927.

Around this time, a small single-storey dwelling house was erected on the land and remains to the present day.

The property next sold on 15th October 1927, having been purchased by George Osborne Longley⁹, a Clerk from Camden for the sum of two hundred pounds.

By now, the land comprised a reduced area of only four acres, however a revised Parish Map for the Parish of Narellan was issued the following year, showing that the former road through the site had been realigned to the present-day location of Macarthur Road, effectively re-uniting the site as a singular allotment.



Figure 29: Map of the Patish of Narellan c1928. [Source: NSW Land and Property Information, 2016]

NSW Land and Property Information, 2016. Old System Title Book 43? No.361.

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Ibid. Book 333 No.627.

Ibid, Book 463 No.210. Ibid, Book 1491 No.694.

Ibid. Book. 1491 No.694.

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3.5 **Ettlesdale Estate**

The growth of coal mining in the area in the 1950s and 1960s contributed to local population growth¹⁰, with an increasing demand for residential land releases on farmland adjacent to the floodplain.

As part of the response to the pressure, in early April 1951, a survey was undertaken of Lot 57 and part of Lot 58, with a plan of subdivision prepared for the creation of twenty-three new residential allotments11.

Known as the Ettlesdale Estate, the allotments were created straddling a new roadway which would be named Ettlesdale Road. The Estate would effectively sever the subject site into two portions, with the eastern half comprising the Ettlesdale Estate and the western half comprising the residual land with the single-storey dwelling house.

Late 20th Century and early 21th Century 3.6

Osborne Longley George retained ownership of the portion of the land comprising the dwelling house, from 1927 to 1988.

Longley sold the property in early September 1988 for the sum of \$145,000, transferring to Joseph Moses (1/2 undivided share), Charles Moses (1/4 undivided share), Rita Stanton (1/8 undivided share) and Melanie Malkoun (1/8 undivided share) and all as tenants in common¹².

In March 1989, the land was surveyed and a new Deposited Plan was issued for the realigned and surveyed boundaries, becoming known as Lot 1 in Deposited Plan 798823.

The property next sold in early April 2011, transferring to Hua Yong Huang (50%) and Wen Lin (25%) and Jia Yao (25%) for the sum of \$710,000.

Finally, the property sold on 27th October 2015 for the sum of \$2,050,000, transferring to Olmoty Ptd Ltd, who remain the present owners13.

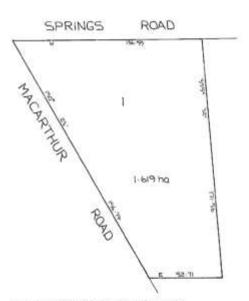


Figure 30: Deposited Plan 798823 from 1989. [Source: NSW Land and Property Information, 2016]

-71 Ibid. Transfer Dealing AJ933466.

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Willis, I. Undated. 'Eldershe' ...

NSW Land and Property Information, 2016. Deposited Plan No.38392. 12

Ibid. Book.3759 No.865.

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HERITAGE IMPACT STATEMENT - 10 Springs Road, Spring Farm

4.0 HERITAGE LISTING STATUS

4.1 Introduction

Identification of the statutory and non-statutory heritage listings applicable to the subject site is as follows:

4.2 Statutory and non-statutory heritage listings

Statutory lists

The subject site **is not** identified as an item of local heritage significance, listed under Schedule 5 of *Camden Local Environmental Plan 2010.*

The subject site is not located within a Heritage Conservation Area listed under Schedule 5 of Camden Local Environmental Plan 2010.

Non-statutory lists

The subject site **is not** identified on any non-statutory heritage lists or registers.

4.3 Items of heritage significance within the vicinity of the site Figure 31: Map showing the heritage status of the subject site and surrounding allotments.

[Source: NSW Legislation website, Camdon LEP 2010, Heritage Map HER_009 and HER_013]

For the purposes of this heritage impact assessment, the term 'in the vicinity' is taken to be any item or items that:

- i) Are within an approximate 100m radius of the boundaries of the subject site;
- ii) Have a physical relationship to the subject site i.e. adjoin the property boundary;
- iii) Are identified as forming a part of a group i.e. a row of terrace houses;
- iv) Have a visual relationship to and from the site; or
- v) Are a combination of any of the above.

In applying the above criteria, items of local heritage significance (listed under Schedule 5 of Camden Local Environmental Plan 2010) within the vicinity of the subject site include:

- 'House and curtilage' 176 Macarthur Road, Spring Farm (Item No.1141)
- Galvin Cottage and curtilage' 196 Macarthur Road, Spring Farm (Item No.1142)

There are no items of state heritage significance (listed on the State Heritage Register under the Heritage Act 1977) within the vicinity of the subject site.

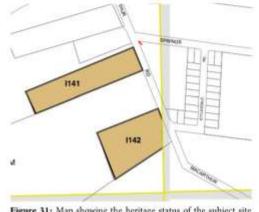
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5.0 ASSESSMENT OF CULTURAL SIGNIFICANCE

5.1 Assessment of Cultural Significance using the NSW Heritage Assessment Criteria

The assessment of cultural significance follows the methodology recommended in Assessing Heritage Significance¹⁴ and is consistent with the guidelines as set out in the Australia ICOMOS Charter for the Conservation of Places of Cultural Significance (The Burra Charter 2013).¹⁵

An item will be assessed to be of heritage significance if it meets one or more of the following criteria:

5.1.1 Criterion (a) - Historical Significance

An item is important in the course, or pattern, of NSW's cultural or natural history (or the cultural or natural history of the local area).

Guidelines for Inclusion	Guidelines for Exclusion	
 Shows evidence of a significant human activity; Is associated with a significant activity or historical phase; Maintains or shows the continuity of a historical process or activity. 	 Has incidental or unsubstantiated connections with historically important activities or processes; Provides evidence of activities or processes that are of dubious historical importance; Has been so altered that it can no longer provide evidence of a particular association. 	

Assessment of Significance

The dwelling at 10 Springs Road, demonstrates the continued evolution of the Elderslie Estate and in particular, evidences the rural residential development of the early Inter-War period of the 1920s.

The dwelling is not an isolated example of the early Inter-War period vernacular within the locality and does not evidence significant development or societal activity, or a significant historical phase within the locality.

Accordingly, 10 Springs Road, Spring Farm, does not satisfy this criterion in demonstrating historical significance.

5.1.2 Criterion (b) - Historical Association Significance

An item has strong or special association with the life or works of a person, or group of persons, of importance in NSW's cultural or natural history (or the cultural or natural history of the local area).

Guidelines for Inclusion	Guidelines for Exclusion	
 Shows evidence of a significant human occupation; Is associated with a significant event, person or group of persons. 	 Has incidental or unsubstantiated connects with historically important people or events; Provides evidence of people or events that are of dubious historical importance; Has been so altered that it can no longer provide evidence of a particular association. 	

¹⁴ NSW Heritage Branch, 2001. 'Assessing Heritage Significance'. ¹⁹ Australia ICOMOS, 2013. 'Barra Charter'.

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Assessment of Significance

The dwelling at 10 Springs Road is situated on land originally granted in 1815 to John Oxley – one of the most renowned Surveyors in the colony of New South Wales.

The land was later owned by Charles Campbell, Edward Palmer and Charles Whiteman.

There is no evidence of any earlier improvements having been made to the land and the present dwelling was built in the 1920s and the site was further subdivided in 1951 and a boundary realignment in 1989. Subsequently, there is nothing in the fabric of the site or its improvements that specifically links the property to John Oxley, Charles Campbell, Edward Palmer or Charles Whiteman.

An examination of the successive owners of the property from the late 19th Century to the present day, are all considered of dubious historical importance.

Accordingly, 10 Springs Road, Spring Farm, does not satisfy this criterion in demonstrating historical associative significance.

5.1.3 Criterion (c) - Aesthetic Significance

An item is important in demonstrating aesthetic characteristics and/or a high degree of creative or technical achievement in NSW (or the local area).

Gui	Guidelines for Inclusion		Guidelines for Exclusion		
	Shows or is associated with, creative or technical innovation or achievement;	•	Is not a major work by an important designer or artist;		
•	Is the inspiration for a creative or technical innovation or achievement;	:	Has lost its design or technical integrity; Its positive visual or sensory appeal or landmark and		
	Is aesthetically distinctive;		scenic qualities have been more than temporarily		
	Has landmark qualities;		degraded;		
•	Exemplifies a particular taste, style or technology.	•	Has only a loose association with a creative of technical achievement.		

Assessment of Significance

The dwelling is attributed to the 'Californian Bungalow' style of the early 20th Century Inter-War period and is of a modest scale and form, sitting silently within the streetscape. The dwelling exhibits substantial damage from a prolonged period of vacancy, with substantial irreversible damage to the fabric.

The dwelling is also concealed from view from the streetscape by existing vegetation.

In this regard, the dwelling is not considered aesthetically distinctive nor does it have landmark qualities within the streetscape or locality.

There is no evidence to suggest that the dwelling is the work of an important designer.

Accordingly, 10 Springs Road, Spring Farm, does not satisfy this criterion in demonstrating aesthetic significance.

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5.1.4 Criterion (d) - Social Significance

An item has strong or special association with a particular community or cultural group in NSW (or the local area) for social, cultural or spiritual reasons.

Gui	Guidelines for Inclusion		Guidelines for Exclusion		
•	Is important for its associations with an identifiable group; Is important to a community's sense of place.	•	Is only important to the community for amenity reasons; Is retained only in preference to a proposed alternative.		

Assessment of Significance

No community consultation has been undertaken as part of this assessment of significance.

However, historical documentary evidence does not suggest that the dwelling at 10 Springs Road has any direct or indirect associations with a particular community or cultural group for social, cultural or spiritual reasons.

Accordingly, 10 Springs Road, Spring Farm, does not satisfy this criterion in demonstrating social significance.

5.1.5 Criterion (e) - Technical / Research Significance

An item has potential to yield information that will contribute to an understanding of NSW's cultural or natural history (or the cultural or natural history of the local area).

Guidelines for Inclusion	Guidelines for Exclusion		
 Has the potential to yield new or further substantial scientific and/or archaeological information; Is an important benchmark or reference site or type; Provides evidence of past human cultures that is unavailable elsewhere. 	 The knowledge gained would be irrelevant to research on science, human history or culture; Has little archaeological or research potential; Only contains information that is readily available from other resources or archaeological sites. 		

Assessment of Significance

The extant fabric of the dwelling (albeit substantially damaged) displays form and detailing that is typical to the typology and domestic vernacular of the early 20th Century period and of the 'Californian Bungalow' architectural style.

A visual examination of the dwelling reveals that the dwelling incorporates standard construction materials and techniques.

It is unlikely that the surviving fabric would yield substantial further information on construction practices and techniques associated with the vernacular of the early 20th Century and specifically, the Inter-War period.

The dwelling is not considered an important benchmark or reference site.

While the dwelling appears to have been the first structure erected on the site, historical mapping shows that an early roadway crossed the site. First appearing on the earliest parish maps of c1830s, the

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roadway had been relocated by 1928. Notwithstanding, given the long association and use of the site for agricultural and grazing purposes, the archaeological potential is considered to be low, with any early resources likely to have been disturbed.

Accordingly, 10 Springs Road, Spring Farm does not satisfy this criterion in demonstrating technical / research significance.

5.1.6 Criterion (f) - Rarity

An item possesses uncommon, rare or endangered aspects of NSW's cultural or natural history (or the cultural or natural history of the local area).

Gai	defines for Inclusion	Guidelines for Exclusion	
•	Provides evidence of a defunct custom, way of life, or process;	 Is numerous but under threat. 	
•	Demonstrates a process, custom or other human activity that is in danger of being lost;	a	
•	Shows unusually accurate evidence of a significant human activity;	ıt	
	Is the only example of its type;		
•	Demonstrates designs or techniques of exceptional interest;	d	
•	Shows rare evidence of a significant human activity important to the community.	y	

Assessment of Significance

The dwelling is attributed to the housing stock of the early Inter-War period, (built c1920s).

An examination of the surrounding streetscape reveals a varied building typology, with examples of late 19th Century domestic vernacular on the opposite (western) side of Macarthur Road and mid 20th Century domestic vernacular within the Ettlesdale Estate to the east and south.

However, throughout the broader locality, there are numerous examples of Californian Bungalows from the Inter-War period of the early 20th Century and the dwelling is therefore not attributed to an architectural style that is rare or under imminent threat.

Accordingly, 10 Springs Road, Spring Farm, does not satisfy this criterion in demonstrating rarity significance.

5.1.7 Criterion (g) - Representativeness

An item is important in demonstrating the principal characteristics of a class of NSW's:

- Cultural or natural places; or
- Cultural or natural environments (or a class of the local area's cultural or natural places; or cultural or natural environments.).

Guidelines for Inclusion			Guidelines for Exclusion		
•	Is a fine example of its type;	•	Is a poor example of its type;		
	Has the principal characteristics of an important class or group of items;	(97)) 	Does not include or has lost the range of characteristics of a type;		
*	Has attributes typical of a particular way of life, philosophy, custom, significant process, design,	<u>.</u>	Does not represent well the characteristics that make up a significant variation of a type.		

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technique or activity;
Is a significant variation to a class of items

- Is part of a group which collectively illustrates a representative type;
- Is outstanding because of its setting, condition or size;
- Is outstanding because of its integrity or the esteem in which it is held.

Assessment of Significance

Built c1920s, the single-storey dwelling house, with its timber frame construction, fibrous cement cladding to external walls and gabled corrugated sheet metal clad roof, are characteristic elements, which collectively, define the dwelling as belonging to the domestic 'Californian Bungalow' architectural style of the early Inter-War period.

The dwelling is of a modest scale and form, and despite some notable modifications, maintains the original silhouette and form. The dwelling has a silent contribution to the streetscape given the obscuration by existing vegetation.

However most significantly, the dwelling is in an extremely poor condition due to it sitting vacant for some time and resulting in a lack of maintenance and inspection as well as substantial vandalism through persons squatting and wilful destruction. The interior and exterior of the dwelling has been substantially damaged, with missing fabric, including segments of wall and roof cladding and windows.

Subsequently, the integrity of the dwelling has been substantially compromised and resultantly, has little architectural interest and value.

Accordingly, 10 Springs Road, Spring Farm, does not satisfy this criterion in demonstrating representative significance.

5.2 Proposed Statement of Cultural Significance

Despite the dwelling at 10 Springs Road, Spring Farm, demonstrating the continued evolution of the locality and in particular, evidencing the rural residential development of the Elderslie Estate from the Inter-War period of the early 20th Century, the dwelling is in an extremely poor condition and its integrity has been substantially compromised to the point that the dwelling has been assessed as having little architectural value or interest.

In our assessment, it cannot be demonstrated that the property satisfies the NSW Heritage Assessment criteria relating to historical, associative, aesthetic, social, technical, rarity or representative significance.

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6.0 DEVELOPMENT PROPOSAL

6.1 Plans & drawings referenced

This Heritage Impact Statement provides an assessment of the development proposal as shown on the following plans and drawings:

Drawing No:	Revision:	Title:	Dated	Prepared By:	
\$2719-72000 - B8 1 of 1		Plan of Proposed Subdivision for Lot 1 in DP798823 at Macarthur & Springs Roads, Spring Farm	17/12/2015	Burton & Field	

6.2 Detailed description of the proposal

The development proposal seeks the consent of Council for the demolition of the existing singlestorey Inter-War period dwelling house and removal of existing vegetation, followed by the subdivision of the lot into nineteen (19) new allotments with an internal access road off Macarthur Road.

The proposed subdivision will create allotments of varied dimensions, ranging from 389.9sqm to 3,501sqm. The average allotment size will be approximately 450sqm.

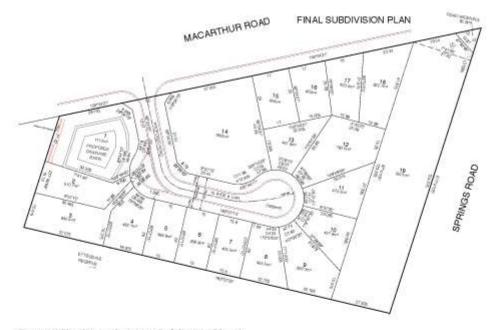


Figure 32: Plan showing the proposed subdivision of the site. [Source: Burton & Field, 2015. Drawing No. S2719-72000-B8 1 of 1]

The heritage impacts of the above-described proposal are considered in detail in the ensuing sections of this report.

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7.0 ASSESSMENT AGAINST PLANNING AND HERITAGE CONTROLS

7.1 Camden Local Environmental Plan 2010

Clause 5.10 Heritage Conservation of Camden Local Environmental Plan 2010 contains provisions, which relate to heritage conservation and management of heritage items, heritage conservation areas and archaeological sites (both Aboriginal and non-Aboriginal).

The provisions specify circumstances where development consent is and is not required, together with specifying statutory requirements and key considerations for the Consent Authority.

However, as the subject site is not identified as an item of heritage significance listed within Schedule 5 of Camden LEP 2010, the provisions of clause 5.10 Heritage Conservation do not apply.

In assessing development proposals relating to items of heritage significance, Council as the Consent Authority, must consider the impacts of the proposed works on the heritage item (clause 5.10(4)). However this requirement does not extend to 'development within the vicinity' of a heritage item or a heritage conservation area.

Notwithstanding, the ensuing heritage impact assessment considers in detail what impact the proposed development will have on the established cultural significance and heritage values of the heritage items within the vicinity of the site.

7.2 Camden Development Control Plan 2011

The Camden Development Control Plan 2011 contains the detailed design standards relating to development in the Camden local government area.

Part B3 of the *Camden DCP 2011* contains performance-based controls that relate to the development of heritage items, development within the vicinity of a heritage item, or development within a heritage conservation area. These development controls seek to ensure that new development is appropriately designed, contextually responsive and sympathetic to the heritage values and significance of an item or place.

The proposed development has been considered against the development guidelines of the DCP and consistency is demonstrated in the ensuing heritage impact assessment.

Furthermore, the subject site has been identified in the table of Potential Heritage Items (Table B4 page B57) within part B3 of the *Camden DCP 2011*. The potential heritage significance of 10 Springs Road, Spring Farm has been considered and assessed within this report, which concludes that the property does not satisfy the NSW Heritage Assessment criteria in demonstrating historical, associative, aesthetic, social, technical, rarity or representative significance.

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HERITAGE IMPACT STATEMENT - 10 Springs Road, Spring Farm

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8.0 HERITAGE IMPACT ASSESSMENT

8.1 Consideration of the Heritage Impact

Demolition of a Building or Structure

The ensuing heritage impact assessment is based upon the Statement of Significance (refer to Section 5.2 above); available physical and documentary evidence including a visual inspection of the site and statutory planning requirements.

The Heritage Council of NSW has published a series of evaluation criteria for assessing the likely impact of a proposed development on the heritage significance of listed heritage items or heritage conservation areas¹⁶, which are listed below and considered in the ensuing statement of heritage impact:

- Have all options for retention and adaptive re-use been explored?
- Can all of the significant elements of the horitage item be kept and any new development be located elsewhere on the site?
- Is demolition essential at this time or can it be postponed in case future circumstances make its retention and conservation more feasible?
- Has the advice of a heritage consultant been sought? Have the consultant's recommendations been implemented? If not, why
 not?

Subdivision

- How is the proposed curtilage allowed around the heritage item appropriate?
- Could future development that results from this subdivision compromise the significance of the heritage item? How has this been minimised?
- Could future development that results from this subdivision affect views to, and from, the heritage item? How are negative
 impacts to be minimised?

8.2 Response to the evaluation criteria

Demolition

The proposal involves the total demolition of the existing dwelling house, enabling the subdivision of the site and eventual residential development of the new allotments.

Built c1920s, the dwelling is of a modest scale and form, and despite some notable modifications, maintains the original silhouette and form, with characteristics that identify it as belonging to the 'Californian Bungalow' architectural style of the Inter-War period.

Overall, the dwelling has a silent contribution to the streetscape and has little architectural interest and value, largely because of its significantly compromised condition, with extensive material damage to fabric and missing fabric.

In our assessment, it cannot be demonstrated that the property satisfies the NSW Heritage Assessment criteria relating to historical, associative, aesthetic, social, technical, rarity or representative significance.

While the existing dwelling could be retained and repaired whereby being incorporated into the subdivision layout, such option has been discounted first and foremost on the basis that the dwelling is of little architectural interest and value due to its present condition, the low degree of rarity of the

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NSW Heritage Branch, 'Heritage Impact Statements - Some questions to be answered in a Statement of Heritage Impact and Supporting Information Required'.

architectural style, together with the heritage value of retaining the dwelling, cognisant of the fact that a substantial amount of further material affectation would be necessitated through the removal of damaged and irreversible fabric and its subsequent replacement.

For these reasons, there is little heritage value in retention of the existing dwelling and demolition is supported, subject to a detailed Photographic Archival Recording prior to demolition works occurring or further loss of fabric from vandalism or lack of routine maintenance.

Subdivision

The subject site is located within the vicinity of a number of items of local heritage significance. The significance of each of these items is largely attributed to the built improvements contained within each of the respective allotments.

Indeed the heritage items are enhanced by their landscaped setting and context, which is largely characterised by a large-lot rural setting.

Presently, the two heritage items directly opposite the subject site (on the western side of Macarthur Road), are substantially screened from view from the public domain. This is due in part to the vegetation on each allotment, filters views to the streetscape, but also the result of the physical placement of the dwellings within their allotment, being set far back from Macarthur Road.

In this regard, it is appropriate to conclude that the heritage curtilage of the heritage items opposite is defined by their respective allotment boundaries, with little outward-facing view corridors. There is little visual relationship to Macarthur Road and the present open rural-like character of the subject site has little contribution to the setting or context of the heritage items. This is further demonstrated in the visual assessment map contained within Part B3 of the *Canden DCP 2011*, which identifies significant views from Macarthur Road to the heritage items opposite the site, but not in reverse.

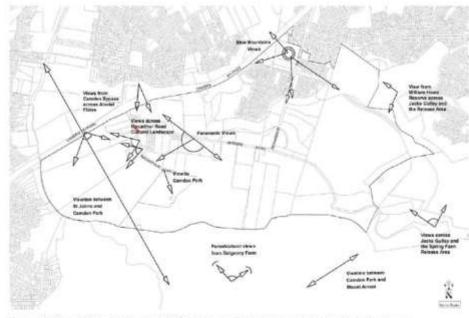


Figure 33: Figure B9 from the Camden DCP 2011, showing the Spring Farm Cultural and Visual Landscapes. [Source: Camden DCP 2011]

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In this regard, while the subject site is 'within the vicinity' of the heritage items, it can be considered as a separate entity that has little contribution to the setting, character or significance of the heritage items.

The rural-like character and setting of the heritage items will be appropriately preserved through the retention of their own lot-boundary heritage curtilage.

The proposed subdivision of the site will allow for future residential development, consistent with the emerging urban landscape on the eastern side of Macarthur Road. The allotments are of a size and dimension that suggests detached style housing will eventuate, which is generally considered to be of a scale, size and form that would not adversely visually dominate the landscape or streetscape.

The proposed subdivision will also appear as an extension of the adjoining Ettlesdale Estate subdivision from 1951.

8.2.1 The following aspects of the proposal respect or enhance the heritage significance of the item or conservation area for the following reasons:

- The dwelling on the subject site has been assessed as having little architectural interest and value and its architectural integrity has been substantially compromised through neglect and vandalism. Subsequently, demolition of the dwelling will not result in the loss of a significant domestic building.
- The dwelling is attributed to the 'Californian Bungalow' architectural style of the early 20th Century Inter-War period, with a construction date of c1920s. The dwelling is attributed to an architectural style that is not rare or under threat within the wider locality.
- The subject site has little visual contribution to the rural-like character and setting of the heritage items opposite and can be subdivided independently of the heritage items, without any detrimental impact on the heritage curtilage required to retain their rural landscaped character and setting.

8.2.2 The following sympathetic solutions have been considered and discounted for the following reasons:

Retention of the dwelling has been discounted first and foremost on the basis that the dwelling
is of little architectural interest and value due to its present condition, the low degree of rarity
of the architectural style; together with the heritage value of retaining the dwelling, cognisant
of the fact that a substantial amount of further material affectation would be necessitated
through the removal of damaged and irreversible fabric and its subsequent replacement.

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9.0 CONCLUSION AND RECOMMENDATIONS

9.1 Conclusion

In our assessment, it cannot be demonstrated that the property satisfies the NSW Heritage Assessment criteria relating to historical, associative, aesthetic, social, technical, rarity or representative significance.

In this regard, the existing dwelling is considered of little architectural interest and value and demolition is supported.

The proposed demolition of the existing dwelling and subdivision of land at 10 Springs Road, Spring Farm, is therefore considered to have an acceptable heritage impact and is recommended to Council for approval.

9.2 Recommendations

There are no specific recommendations made with regards to this development proposal.

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Appendix A Common Terms Used

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The following is a list of terms and abbreviations adopted for use in the NSW Heritage Manual (prepared by the Heritage Council of NSW), and other terms used by those involved in investigating, assessing and managing heritage, including terms used within this Heritage Impact Statement:

Aboriginal significance: An item is of Aboriginal heritage significance if it demonstrates Aboriginal history and culture. The National Parks and Wildlife Service has the primary responsibility for items of Aboriginal significance in New South Wales.

Adaptation: Modification of a heritage item to suit a proposed, compatible use.

Aesthetic significance: An item having this value is significant because it has visual or sensory appeal, landmark qualities and/or creative or technical excellence.

Archaeological assessment: A study undertaken to establish the archaeological significance (research potential) of a particular site and to propose appropriate management actions.

Archaeological feature: Any physical evidence of past human activity. Archaeological features include buildings, works, relics, structures, foundations, deposits, cultural landscapes and shipwrecks. During an archaeological exeavation the term 'feature' may be used in a specific sense to refer to any item that is not a structure, a layer or an artefact (for example, a post hole).

Archaeological significance: A category of significance referring to scientific value or 'research potential' that is, the ability to yield information through investigation.

Archaeological sites: A place that contains evidence of past human activity. Below-ground archaeological sites include building foundations, occupation deposits, features and artefacts. Above-ground archaeological sites include buildings, works, industrial structures and relics that are intact or ruined.

Archaeology: The study of material evidence to discover human past. See also historical archaeology.

Artefacts: Objects produced by human activity. In historical archaeology the term usually refers to small objects contained within occupation deposits. The term may encompass food or plant remains (for example, pollen) and ecological features.

Australia ICOMOS: The national committee of the International Council on Momoments and Sites. Burra Charter: (and its guidelines). Charter adopted by Australia ICOMOS which establishes the nationally accepted principles for the conservation of places of cultural significance.

Comparative significance: In the NSW Heritage Assessment Procedure there are two values used to compare significance: representativeness and rarity.

Compatible use: A use for a heritage item, which involves no change to its culturally significant fabric, changes which are substantially reversible or changes, which make a minimal impact.

Cultural landscapes: Those areas of the landscape, which have been significantly modified by human activity. They include rural lands such as farms, villages and mining sites, as well as country towns.

Cultural significance: A term frequently used to encompass all aspects of significance, particularly in guidelines documents such as the Burra Charter. Also one of the categories of significance listed in the Heritage Act 1977.

Curtilage: The geographical area that provides the physical context for an item, and which contributes to its heritage significance. Land title boundaries and heritage curtilages do not necessarily coincide.

Demolition: The damaging, defacing, destroying or dismantling of a heritage item or a component of a heritage conservation area, in whole or in part.

Conjectural reconstruction: Alteration of a heritage item to simulate a possible earlier state, which is not based on documentary or physical evidence. This treatment is outside the scope of the Burra Charter's conservation principles.

Conservation: All the processes of looking after an item so as to retain its cultural significance. It includes maintenance and may, according to circumstances, include preservation, restoration, reconstruction and adaptation and will be commonly a combination of more than one of these.

Conservation Management Plan: (CMP) A document explaining the significance of a heritage item, including a heritage conservation area, and proposing policies to retain that significance. It can include guidelines for additional development or maintenance of the place.

Conservation policy: A proposal to conserve a heritage item arising out of the opportunities and constraints presented by the statement of heritage significance and other considerations.

Contact sites: Sites which are associated with the interaction between Aboriginal and non-Aboriginal people.

Excavation permit: A permit issued by the Heritage Council of New South Wales under section 60 or section 140 of the Heritage Act 1977 to disturb or excavate a relic.

Façade: The elevation of a building facing the street.

Heritage Act 1977: The statutory framework for the identification and conservation of heritage in New South Wales. The Act also describes the composition and powers of the Heritage Council.

Heritage advisor: A heritage consultant engaged by a local council, usually on a parttime basis, to give advice on heritage matters to both the council and the local community.

Heritage assessment criteria: Principles by which values for heritage significance are described and tested. See historical, aesthetic, social, technical/ research, representativeness, rarity.

Heritage conservation area: An area which has a distinctive character of horitage significance, which it is desirable to conserve.

Heritage Council: The New South Wales Government's heritage advisory body established under the Heritage Act 1977. It provides advice to the Minister for Urban Affairs and Planning and others on heritage issues. It is also the determining authority for section 60 applications.

Heritage fabric: All the physical material of an item, including surroundings and contents, which contribute to its heritage significance.

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Heritage inventory: A list of heritage items, usually in a local environmental plan or regional environmental plan.

Heritage item: A landscape, place, building, structure, relic or other work of heritage significance.

Heritage Division: The State Government agency of the Office of Environment and Heritage, responsible for providing policy advice to the Minister for Heritage, administrative services to the Heritage Council and specialist advice to the community on heritage matters.

Heritage precinct: An area or part of an urea which is of heritage significance. See also heritage conservation area.

Heritage significance: Of aesthetic, scientific, cultural, social, historic. archaeological, natural or aesthetic value for past, present or future generations.

Heritage study: A conservation study of an area, usually commissioned by the local council. The study usually includes a historical context report, an inventory of heritage items within the area and recommendations for conserving their significance.

Heritage value: Often used interchangeably with the term 'heritage significance'. There are four nature of significance values and two comparative significance values. See heritage significance, nature of significance, comparative significance.

Hierarchy of significance: Used when describing a complex heritage site where it is necessary to zone or categorise parts of the area assigning each a particular significance. A commonly used four level hierarchy is: considerable, some, little or no, intrusive (that is, reduces the significance of the item).

Industrial archaeology: The study of relics, structures and places involved with organised labour extracting, processing or producing services or commodities; for example, roads, bridges, railways, ports, wharves, shipping, agricultural sites and structures, factories, mines and processing plants.

Integrity: A heritage item is said to have integrity if its assessment and statement of significance is supported by sound research and analysis, and its fabric and curtilage are still largely intact.

International Council on Monuments and Sites (ICOMOS): An international organisation linked to UNESCO that brings together people concerned with the conservation and study of places of cultural significance.

There are also national committees in sixty countries including Australia.

Level of significance: There are three management levels for heritage items in New South Wales - local, regional and state. The level is determined by the context in which the item is significant. For example, items of state heritage significance will either be fine examples or rare state-wide or will be esteemed by a state-wide community.

Local significance: Items of heritage significance which are fine examples, or rare, at the local community level.

Moveable heritage: Heritage items not fixed to a site or place (for example, furniture, locomotives and archives).

occupation deposits: (In archaeology.) Accumulations of cultural material that result from human activity. They are usually associated with domestic sites, for example, under-floor or yard deposits.

post-contact: Used to refer to the study of archaeological sites and other heritage items dating after European occupation in 1788 which helps to explain the story of the relationship between Aborigines and the new settlers.

Preservation: Maintaining the fabric of an item in its existing state and retarding deterioration.

Rarity: An item having this value is significant because it represents a rare, endangered or unusual aspect of our history or cultural heritage.

Reconstruction: Returning a place as nearly as possible to a known earlier state by the introduction of new or old materials into

the fabric (not to be confused with conjectural reconstruction).

Relic: The Heritage Act 1977 defines relic as: '... any deposit, object or material evidence relating to non-Aboriginal settlement which is more than fifty years old." The National Parks and Wildlife Act 1974 defines a relic as: "... any deposit, object or material evidence (not being a handlcraft made for sale) relating to indigenous and non-European habitation of the area that comprises New South Wales, being habitation both prior to and concurrent with the occupation of that area by persons of European extraction, and includes Aboriginal remains."

Representativeness: Items having this value are significant because they are fine representative examples of an important class of significant items or environments.

Restoration: Returning the existing fabric of a place to a known earlier state by removing accretions or by reassembling existing components without introducing new material.

social significance: Items having this value are significant through their social, spiritual or cultural association with a recognisable community.

State heritage inventory: A list of heritage items of state significance developed and managed by the Heritage Division. The inventory is part of the NSW Heritage Database.

state significance: Items of heritage significance which are fine examples, or rare, at a state community level.

statement of heritage significance: A statement, usually in prose form which summarises why a heritage item or area is of importance to present and future generations.

technical/research significance: ltems having this value are significant because of their contribution or potential contribution to an understanding of our cultural history or environment.

Attachment 8



Submission to the Greater Sydney Commission

Draft South West District Plan

March 2017

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Executive Summary

Camden Council welcomes the release of the Draft South West District Plan and the opportunity to provide comment. With the South West District undergoing dramatic change, the District Plan provides a timely opportunity to consider a new vision for South West Sydney and to lay down the strategic foundations to ensure that the provision of infrastructure and economic growth keeps pace with our population growth. The District Plan also provides an opportunity to strengthen our unique identity and to help ensure that we create and maintain 'liveable' places for new and existing communities.

Whilst the overall vision reflected within the draft Plan is broadly supported, key issues have been identified. These issues relate to the ability to implement the vison within the current planning system, and the lack of consideration of key infrastructure to support the projected growth.

The submission addresses the following key issues:

- 1. Implementation and Monitoring;
- 2. Delivering the Western City;
- 3. Transport Infrastructure;
- 4. Social Infrastructure (including health and education);
- 5. Housing
- 6. Rural Land; and
- 7. Environment.

Continued consultation with Local Government is a critical step in facilitating the positive collaboration necessary for the success of the District Plan. Council looks forward to an ongoing partnership with the Greater Sydney Commission (GSC) and relevant state agencies to ensure that the desired outcomes of the Plan are achieved.

Introduction

This document forms Camden Council's formal submission to the exhibition of the Draft South West District Plan and the incorporated amendment to A Plan for Growing Sydney.

The submission was endorsed by Council on DATE.

A vision towards our Greater Sydney 2056 – A draft amendment to A Plan for Growing Sydney

Council broadly supports the proposed amendments to 'A Plan for Growing Sydney' which proposes to reconceptualise Greater Sydney as a metropolis of three cities including the 'Emerging Western City' focused around the Western Sydney Airport. The Western Sydney Airport is a major catalyst that will shape the structure of the "Western City" and its surrounding centres.

Council understands that this is a once in a lifetime opportunity and supports the focus of a third city within the metropolis of Sydney. The emergence of the third city is likely to have a significant influence on the form of Camden's future development.

Draft District Plan South West Sydney

Implementation and monitoring

Funding Mechanisms

A key theme within the draft District Plan is to align land use planning and infrastructure investment, including local infrastructure usually planned and delivered by Council such as local roads, drainage, open space and community facilities.

Local infrastructure is currently delivered via funding mechanisms such as Section 94 Contributions Plans and Voluntary Planning Agreements. However, the current development contributions framework substantially limits the ability of local government to deliver adequate and timely local infrastructure.

Given the high cost of acquiring land and constructing infrastructure to support development in formerly rural landholdings, the Section 94 Contributions Plans often exceed the \$30,000 per lot/dwelling cap imposed by the NSW Government in 2010. Once the cap is exceeded, Council is unable to collect contributions towards the construction of 'non-essential infrastructure' which includes the construction of community facilities, libraries, performing arts spaces, riparian corridors and district and regional active open space.

The inability to secure a funding stream for these forms of community and open space infrastructure is considered to be fundamentally at odds with the aims and objectives of the draft District Plan, as no certainty can be provided regarding the funding source and timing for delivery of works which play an essential role in establishing vibrant, functioning, cohesive and inclusive communities. The ability of Councils to acquire and embellish land to deliver upon the draft District Plan's vision of green grids and blue grids is also questioned.

The draft District Plan discusses 'value capture' as a potential funding mechanism for infrastructure. Further investigation should occur to prepare a holistic development control, zoning and contributions framework within which 'value capture' can be implemented in a variety of development contexts.

Recommendation:

- That the NSW Government commit to a holistic and comprehensive review of the development contributions framework, with particular regard to the \$30,000 cap on contributions in greenfield release areas, and the definition of essential infrastructure, within twelve months of the finalisation of the District Plan.
- That key deliverables within the draft District Plan such as the "blue green grid" include a funding mechanism.
- That the NSW Government further investigates 'value capture' and prepare an implementation framework with input from local government and the development industry.

Policy

The draft District Plan provides a 20 year vision for the South West District. The realisation of this vision will require the coordination of plans, strategies and policies across all levels of government to ensure priorities and timeframes are clearly identified and worked towards.

Whilst the overall vision, priorities and actions for the South West District are broadly supported, concern is raised regarding the potential inconsistency between the draft District Plan and other NSW Government policy direction which prioritises the supply of housing.

State Environmental Planning Policy (Sydney Region Growth Centres) 2006

Whilst the draft District Plan outlines the responsibilities for Council with regard to aligning LEPs with the actions and priorities in the plan, it is not clear how land within the South West Priority Growth Area is to be considered, and whether the State Environmental Planning Policy (Sydney Region Growth Centres) 2006 will be amended by the Department of Planning and Environment (DPE). Council seeks further clarification on this matter.

The DPE are currently undertaking a review of the Structure Plan for the South West Priority Growth Area. Given that the Structure Plan has not been substantially reviewed since 2007, this presents an opportunity to update the Structure Plan to accord with the objectives and intended outcomes of the draft District Plan, whilst also reflecting the Precinct Planning that has occurred since 2007 and the key items of local and regional infrastructure required to service the South West Priority Growth Area.

SEPP Exempt and Complying Development Codes

A significant amount of residential development within the Camden local government area, especially within the Growth Areas, is currently carried out under *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008* (the Codes SEPP). The rigidity of complying development does not allow for design-led outcomes, which is a key focus of the draft District Plan.

Council recently provided comment to the DPE objecting to a proposed amendment to the Codes SEPP which would allow medium density housing forms such as terraces, manor homes and dual occupancies to be approved as complying development.

It is also noted that at present the delegation to approve SEPP Amendments does not sit with the GSC, unlike LEP's. In order to align all landuse planning decisions it is recommended the GSC and DPE jointly review and approve SEPP amendments in order to provide a connection between the objectives of the draft District Plan and SEPPs.

Environmental Planning and Assessment Act - Amendments

The NSW Government have also recently released draft amendments to the *Environmental Planning and Assessment Act 1979* (EP&A Act), which propose changes to allow the construction of dwellings on unregistered lots to be approved as complying development. Council's submission to the proposed amendments raise concerns regarding the potential conflicts which could arise between dwelling design and surrounding streetscape elements such as street trees and lamp posts.

Community Strategic Plans

It is unclear to what extent Council must consider the draft District Plan in the revision and preparation of a Community Strategic Plan (CSP) required to be prepared by all Councils under the Local Government Act 1993.

In accordance with the Local Government Integrated Planning and Reporting (IPR) Framework, Councils are required to review, prepare and complete their CSP by the 30 June following the election of a new Council. The deadline for councils that were declared "Fit for the Future" to adopt their CSP is 30 June 2017.

The IPR Framework indicates that all CSP's must give due regard to the State Plan and consider alignment with other relevant state and regional plans. The CSP should also be developed and delivered, as a partnership between Councils, state agencies, community groups and individuals.

Based on the above, the new South West District Plan when made available has no ability to align directly with the Local Government IPR Framework requirements, especially when the draft District Plan and CSP both deal with the following matters:

- Represent aspirations for the future of local government area
- Are in revision/preparation cycle where strategies are developed that translate into actions with set baseline targets and identification of lead agency and relevant partners
- The alignments with City Deals, Transport Infrastructure that includes rail corridors and transport connections
- The responsibility to report on the progress of the agreed actions back to the community and stakeholders.

Therefore, it is critical for councils to have a clear understanding of the relationship between the draft District Plan and CSP requirements to meet the IPR framework as well as in preparing Council's End of Term report (2019/20).

Recommendation:

- Require all policy changes to the NSW planning framework be approved by the GSC as being consistent with District Plans.
- The DPE clarify the legislative relationship between the GSC, District Plans and Growth Centres SEPP, and the precinct planning process.
- Request a review of the Exempt and Complying SEPP in relation to inconsistency with the draft District Plan.

- The District Plan include a detailed 'Action Plan' identifying not only who will undertake which action, but also outlining timeframes and the correlation between other strategic documents.
- That the review of the Structure Plan for the South West Priority Growth Area reflect the draft District Plan, as well as the precinct planning that has occurred in the Growth Area and the key infrastructure required to support development in the Growth Area.
- That the relationship between the draft District Plan and the State Environmental Planning Policy (Sydney Region Growth Centres) 2006 be clarified, particularly given the potential inconsistency between the SEPP and the Plan.
- Clarification of the relationship between the draft District Plan and the preparation of Council's Community Strategic Plan, and to what extent Council will need to ensure that the Community Strategic Plan is consistent with the District Plan.

Delivering the Western City

The Western Sydney City Deal

It is clear that with the announcement of the Western Sydney Airport at Badgerys Creek, the Western City is well placed to play a significant role in the future success of the Sydney metropolitan area. However, for this success to be realised, solutions are needed to various challenges such as population growth, access to employment, education, health and sustainable transport services. The importance of early commitment and delivery of infrastructure, especially rail, by government cannot be underestimated, and should be prioritised through the City Deals initiative.

The Western City Deal will provide the opportunity for ongoing collaboration between all levels of government, to the benefit of the entire Western City. However, of note is the significant growth rate projected for the Camden local government area, the highest of all South West District Councils. It is vital that this growth rate is considered when priorities and actions are confirmed, and funds allocated, to ensure that future residents have timely and equitable access to all services and infrastructure.

It is important that the priorities outlined within the Western Sydney City Deal inform the development of the future Economic Development Strategy.

Council supports the City Deals initiative and looks forward to remaining actively involved in the future

The Economic Development Strategy for the Western City

The draft District Plan action P2 identifies the need to develop an Economic Development Strategy (EDS) for the Western City. The EDS for Western Sydney would provide a strategy for economic development across the district, linking opportunities across the region and importantly to the Western Sydney Airport.

The Western Sydney Airport will provide the connectivity needed to support Australia's third largest economy – Western Sydney.

When the airport opens mid-2020s, the single runway is expected to service approximately 5 million passengers per year plus freight, which if realised would bring approximately 4,000 jobs. The airport development is expected to create 35,000 jobs by 2035, increasing to 60,000 jobs over time.

The existing Camden Council Economic Development Strategy outlines the importance of securing infrastructure to support economic development in line with population growth, improving transport connectivity to promote relocation of businesses to the Camden local government area, and the ability of improved transport connections in supporting the tourism sector.

The draft District Plan does not currently address employment opportunities (existing and potential) specifically for the Camden LGA, Industry in Camden is well positioned to participate in some of the fastest growing market sectors – education, health and retail – all of which harness innovation and technology. With the development of key retail centres in Oran Park, Camden, Narellan, and Leppington, it will be important to ensure that future demand for commercial/retail floor space can be met.

Development of any economic development strategy for the Western City would require extensive consultation with and input from the broader Western Sydney business community, Council would strongly encourage the GSC to ensure that this occurs prior to finalising the South West District Plan.

Recommendation:

- The EDS for the Western City should be informed by local economic development strategies to ensure local opportunities for investment are not lost in the context of the higher order employment lands surrounding the Western Sydney Airport.
- The GSC to undertake consultation with Councils and industry and business leaders prior to the preparation of the Western Sydney EDS.

The centres framework for the District

The success of the District Plans, and the Western City, will be reliant on a clearly defined centres hierarchy to ensure that the characteristics of each of the centres are complementary and not competing. The review of the centres framework must consider the future rail network and the role this will play in shaping the centres through providing access to employment, health business and education.

The centres hierarchy review should consider centres not only based on their size or classification (for example as strategic, district, or local) but based on the function that they serve to the broader community.

It is noted that the draft District Plan includes an action (Action P17) to require the delivery of local jobs as a condition of approval for rezoning. Council strongly supports this initiative, however suggests that the location of residential development is not always appropriate for employment land uses. The focus instead should be on the '30-minute city' concept, with local employment being delivered within centres and close to public transport.

The provision of a range of job types close to home is important for the success of the residential precincts within the South West Priority Growth Area and to address the projected jobs deficit for Western Sydney. It is crucial that local job opportunities are delivered concurrently with housing development.

It is therefore recommended that the location of future opportunities for local employment delivery be identified through the centres hierarchy review, in consultation with Council.

Camden Town Centre

Council welcomes the focus on the protection of the heritage values of the Camden Town Centre. Council has recently undertaken work on a Camden Town Centre Vision (2014). The vision highlights the significance of the heritage and history of Camden Town and looks at opportunities to enhance economic inability and liveability of the centre. Recommendations from the vision are currently being implemented by Council.

Recommendation:

- The Centres Hierarchy Review be prioritised and completed within 12 months of finalising the District Plan, to allow Council to appropriately consider development.
- The role of larger "local centres" such as Oran Park and Camden be investigated and clarified through the development of the centres framework.
- The location of future local employment be identified through the Centres Hierarchy Review.

Leppington Town Centre

Council recognises that since being rezoned in 2013, there have been a range of significant changes in some of the planning assumptions made for the Leppington Major Centre, most notably the commitment to the Western Sydney Airport at Badgerys Creek, the Western Sydney Employment Area and significantly higher residential yields. As such, it is considered that the controls relating to Leppington are in need of review to ensure planning decisions made today do not hinder the centres capacity to deliver the types of services and facilities required to serve the significant population expected in the coming decades.

The Leppington Major Centre has the potential to become a destination for residents and to deliver a different form of development to other centres currently planned and delivered within the South West Priority Growth Area. Council would support further investigation into utilising Leppington Town Centre and its strategic advantages as a pilot project to encourage and incentivise innovative sustainable development outcomes.

The Leppington Town Centres strengths are its proximity to a fully operational and contemporary train station, with services to the Sydney CBD and Western Sydney, as well as the significant road infrastructure planning and investment seen within the area since its original rezoning, with several major roads in the area either already upgraded or in the pipeline.

Significant resources and master planning have gone into the planning of the Leppington centre, and whilst it is important to consider the future role of the centre in the broader

Should the Centres hierarchy review being undertaken by the DPE identify additional centres within the Western City, that change the role of Leppington, planning mechanisms must be

implemented to ensure that the development of the centre can still progress in the short term, but also evolve over time as the surrounding area is developed and other centres established.

context of the Western City, it must be acknowledged that the land has already been

The role of Leppington in the context of the Western City is vital in establishing the infrastructure framework for the wider Western City, particularly with regard to the road and rail network.

Recommendation:

rezoned for development.

- The GSC, Council and the DPE investigate using Leppington as a pilot project to encourage and incentivise innovative design outcomes.
- An interim framework for decision making in Leppington be developed with the DPE, GSC and Councils to inform development assessment and investment ahead of the finalisation of a broader vision for the centre.

Transport Infrastructure

East west and north south transport connectivity

Western Sydney is primarily reliant upon road based transport connections. Based on the most recent 2014/2015 Household Travel Survey, travel within the Camden local government area is currently dominated by the use of private cars, with 85% of trips being undertaken in a vehicle. The high percentage of car dependency is considered largely due to limited public transport coverage, adverse topography, large distances between origins and destinations in the local government area and a large proportion of residents working outside of the area.

The lack of functional east west connections between the centres of Camden/Narellan and Campbelltown/Macarthur continue as an infrastructure issue for discussion. Despite the NSW Government's commitment to the upgrading of Narellan Road, investigation into the broader regional transport network remains a challenge for all tiers of government.

Whilst the draft District Plan refers to the Western Sydney Rail Needs Scoping Study, it does not expressly articulate or support the integral need for rail services in promoting transport improvements, for example the South West Rail Link.

In addition the opportunity of connecting the SWRL Extension to the T2 South Line (Campbelltown to the City) is an option that requires further detailed investigation with a view to preserving a corridor as part of the current process. It is important to note that any such corridor to the T2 South Line should be underground.

The further investigation of the rail link past Narellan to link in with the T2 South Line is encouraged. This link would provide excellent east/west connectivity between the existing service and employment centre of Campbelltown/Macarthur and would link this strategic centre, which includes Western Sydney University and TAFE NSW campuses, with the rapidly expanding residential population of Oran Park, the existing population of Narellan and employment opportunities at Western Sydney Airport and the Western Sydney Employment Area.

In addition to the SWRL Extension, other critical infrastructure required to deliver on this action, are:

- Camden Valley Way additional widening to 6 lanes;
- Raby Road widening between Camden Valley Way and Campbelltown Road, as well as a north/western extension from Camden Valley Way to Bringelly Road;
- Additional transit options that deliver higher frequency, capacity and speed than bus services. This is intrinsically linked to the higher density development targeted in the draft District Plan.

These additional connections are needed to ensure the rapidly growing residential population in the South West Priority Growth Area will be able to develop in a more integrated and sustainable way.

Recommendation:

- The District Plan must include a commitment by the NSW Government to the preservation of the South West Rail Link (SWRL) corridor (Leppington to Narellan).
- The NSW Government to commit to the investigation of the SWRL extension from Narellan to the T2 South Line and a timeframe for completion.
- Finalisation of the Regional Traffic Strategy as part of the Growth Centres Structure Plan review.

The Badgally transport connection (Action P7)

Given the current timeframe for completion of the connection between Camden Valley Way and Badgally Road, it is strategically significant that the Badgally transport connection, linking Oran Park, Harrington Grove, Gregory Hills, Catherine Field and Gledswood Hills into Campbelltown city centre, occurs as soon as possible.

Recommendation:

The NSW Government commit to the extension of Badgally Road and a timeframe for completion

Spring Farm Parkway (Action P8)

The Draft South West District Plan states the following:

"NSW Roads and Maritime Services will commence strategic planning for the section between Menangle Road and the rail line in early 2017, with the strategic design and business case planned to be completed in 2018".

The Spring Farm Link Road is strategically important to Camden as it would create an additional connection to the M31 Hume Highway, alleviating pressure on existing connections such as Narellan Road, and warrants progress as a matter of priority. Connection of the Spring Farm Link Road to the M31 would also unlock the future Glenlee employment lands by providing direct access to the highway and reducing any potential conflict between heavy industrial and residential uses.

Recommendation:

The NSW Government prioritise the planning and construction of the Spring Farm Parkway to the M31 Hume Highway.

Developing a threshold for greenfield dwelling numbers based on transport provision (Action P9)

There is significant transport disadvantage in Western Sydney. Of concern is the lack of road infrastructure when additional residential lots are released, causing congestion and travel delays for residents. There is a need for early delivery of a transformative, holistic approach to land use planning and transport provision which would provide early access to jobs, health, and education.

The draft District Plan proposed the creation of a threshold for new homes linked to the delivery of transport connections, the draft District Plan does not outline the mechanism by which this would occur. The draft District Plan is not clear on; how the thresholds will be monitored/measured, or how the NSW Government will be compelled to commit funding based on these thresholds?

The growth experienced within the Camden LGA over the past decade has placed significant pressure on existing road infrastructure as a result of housing targets not being matched with suitable transport commitments. Whilst the concept of thresholds proposes to match infrastructure with population, it is likely to be difficult to implement.

This issue could partly be addressed through an appropriate land-use strategy to accompany the identification and delivery of the rail options for Western Sydney. This strategy could provide a broad timescale and sequence for the release and development of the rail link and its associated stations.

The review of the South West Priority Growth Area Structure Plan provides an ideal opportunity to align the staged release of precincts within the South West Priority Growth Area with that of the delivery of the preferred Western Sydney rail options. In conjunction, the land-use strategy and structure plan could align to provide a phased/staged release of higher density zonings around train stations which do not come online until the delivery of the associated train station, enabling them to grow and develop in line with transport and service provision.

The land-use strategy also has the ability to highlight appropriate land uses and developments within the rail protection corridor which could be effectively utilised in the short to medium term. This would (depending on the range of permissible uses) largely avoid the

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Attachment

sterilisation of land, potentially enabling landowners to productively utilise their land in the interim.

Recommendation:

- All precinct release areas should have an approved servicing and staging strategy for key infrastructure that responds to future densities.
- The precinct planning process for new release areas be required to demonstrate how early delivery of public transport has been planned for, including planning for key infrastructure such as bus lanes and depots, rail infrastructure including parking and cycle and pedestrian connectivity.

Encourage and support the use of public transport (Action P10)

Public transport usage in the Camden LGA is low when compared to the Sydney average, however it must be acknowledged that these low rates of use are due to the lack of public transport infrastructure available in the area, as opposed to a lack of interest by the community.

The Camden community's vision for the future (Camden 2040) reflects the desire for convenient and effective public transport options. This vision has been broken into three key transport objectives, being:

- 1. An effective and efficient road network
- 2. A variety of different transport options
- 3. A transport network that promotes positive environmental outcomes

Camden Council is committed to providing opportunities for public transport for all new release areas. Potential opportunities to respond to the above objectives and encourage and support the use of public transport in the Camden LGA are as follows:

- Early construction of rail as outlined in the Western Sydney Rail Needs Scoping Study;
- Provision of infrastructure to facilitate other forms of transport (e.g. bus depots);
- Protection of future rail corridors and road corridors where transport projects are currently not committed;
- Integration of transport and land-use planning;
- Planning for ancillary transport mediums e.g. taxi, community transport etc.;
- Implement a cycle way and shared pathway network, including both off-road (pathways) and on-road (dedicated road lanes) and a strategy to promote cycling and walking as viable transport methods.

Provision of transport options such as rail would be a significant catalyst toward realising the Camden community's vision, particularly as it relates to providing effective and sustainable transport (in easing congestion on strategic transport corridors) and generating employment and economic opportunities.

Recommendation:

Transport for NSW and contracted bus companies agree to early service provision in greenfield release areas to assist in mode shift to public transport.

Social Infrastructure and Planning

To ensure all needs of the growing population are met in South West Sydney, it is crucial that the infrastructure needed to support social inclusion in the building of new communities is provided. Achieving social inclusion means all members of these new communities are ensured equitable opportunities to participate, via the delivery of new targeted community and social infrastructure in the South West Priority Growth Area.

Health

It is acknowledged that the concentration of existing regional health and education facilities in both the Liverpool and Campbelltown/Macarthur centres offers a great opportunity to further advance these centres as health and education super precincts, providing knowledge intensive employment opportunities for residents in the South West District.

The draft District Plan provides limited focus on health and education outside of these major centres. Given the overwhelming residential population expected in the South West Priority Growth Area, the District cannot rely only on existing facilities. Planning must be undertaken now to ensure that new health and education facilities are planned in emerging centres, where the bulk of housing growth is occurring.

The existing hospital services in the South West Priority Growth Area (SWPGA) are currently at capacity. The NSW Governments current approach of providing integrated primary and community care centres, and the expansion of existing medical precincts is not sufficient to cater for the future population.

It is important the District Plan include a new public hospital within the South West District and that it be appropriately planned for in the precinct planning process.

Education

There is no mention in the draft District Plan of the TAFE campus proposed for the Leppington Major Centre, however the site is depicted on the map on page 71. This point requires clarification as to the intention of future tertiary education provision in the South West, particularly on this site. As acknowledged in the draft District Plan, in order to grow the proportion of smart jobs in the District, it is important to grow the skilled workforce by improving access to the relevant vocational education and training, higher education facilities and training programs. The removal of this site from Leppington will limit the centres future potential and is not supported.

Whilst the Liverpool and Campbelltown city centres have a strong existing and growing education focus, the emerging population in the SWPGA will require additional high level secondary, tertiary and vocational education facilities. With an estimated need for 1 university per 500,000 persons the expected growth in the South West District will require at least 1 new facility.

The City Deals initiative presents the opportunity for key Councils to work together to explore innovative options for future innovative education facilities within the Western City, including the potential to attract international investment in education.

Social Planning and Services

Whilst the draft District Plan provides a vision for a liveable district into the future, there is a lack of focus on the provision of human services across a wide range of target groups. The draft District Plan instead places a large emphasis on the provision of hard infrastructure. The Camden LGA and the South West District more widely suffers significantly from a lack of access to key services. Services such as community health, mental health, aged care services, family and youth support services must be part of the delivery of the Western City. Without these key services the social wellbeing and community cohesion of new communities will continue to be disadvantaged.

Recommendation:

- The draft District Plan include the identified TAFE campus at the Leppington Town Centre.
- The planning for a new medical precinct, including an additional public hospital, in the South West Priority Growth Area is identified as a priority in the draft District Plan.
- Explore innovative opportunities for additional tertiary education facilities within the South West Priority Growth Area.
- The draft District Plan to require a commitment from the NSW Government to provide and fund early services to new communities, with key agencies as partners in delivery.
- The draft District Plan to require a study on the regional social infrastructure and gaps within 12 months of the finalisation of the District Plan.

Housing

Delivering strategic housing supply targets

Without early commitment to the delivery and timing of major infrastructure items, such as rail, Council cannot commit to the planning and delivery of the 20 year housing targets of 143,000 dwellings (for the South West District) as included within the draft District Plan.

The draft District Plan identifies Camden LGA to deliver 11,800 new dwellings between 2016-2021. Council's ability to meet the identified housing targets and associated housing diversity and densities is dependent on transport infrastructure.

The draft District Plan only provides 5 year housing targets at an LGA level, with the 20 year housing target only provided at a district level. The draft District Plan also calls for Councils to prepare a 'local housing strategy'. The 5 year target is not useful to assist with long term strategic planning when considering the time it would take Council to prepare, exhibit and adopt the strategy.

To ensure aspirational strategic outcomes of the draft District Plan are realised, it is critical that the final district plans provide incremental housing supply targets, by local government area, at a minimum 5-year increment, which is matched to key infrastructure.

Recommendation:

Housing targets must be aligned to the provision of infrastructure

Amend the draft District Plan to include incremental housing targets by local government area.

Affordable Rental Housing Targets

The draft District Plan identifies methods to address Sydney's affordable housing challenge, and provides, and prioritises the implementation of, an Affordable Rental Housing (ARH) Target of 5-10% of new floorspace.

Whilst Council acknowledges and supports the need to address the affordable rental housing challenge, concern is raised that the 5-10% affordable rental housing target will be difficult to implement for greenfield rezonings, which are predominantly related to the subdivision of lots and not necessarily related to the development of floor space.

Council requests that the guidance note identified in Action L7 be provided as a matter of urgency for all Councils, as the implementation challenge is one that is of high importance for areas with significant growth and rezoning projects such as Camden Council.

In addition it is recommended that Councils local housing strategies set targets for the quantum and location of ARH, as it is likely more appropriate to plan for ARH adjacent to areas with access to employment and key services and connectivity, rather than a generic target that applied to all development types across all locations in Sydney.

Recommendation:

- The GSC provide clarity around the mechanism to facilitate the delivery and handover of affordable housing for greenfield areas.
- Councils' local housing strategies inform the location of affordable housing. The percentage of affordable housing should be linked to the proposed future location (e.g. higher percentages next to highly serviced centres).

Rural Lands

With the rapid urban growth over the past 20 years Camden LGA has a number of emerging pressures including the Western Sydney Airport and the Outer Sydney Orbital (M9), both of which have the potential to significantly impact on Camden's rural lands.

The draft District Plan provides a number of priorities relating to protecting the environmental, social and economic values of the Metropolitan Rural Area, including discouraging urban development on rural land not earmarked for future urban development. The draft District Plan also recognises that whilst there are common tensions experienced on all rural land across Sydney, these tensions must be resolved on a locality-by-locality basis to ensure that the complexities of rural land values can be properly considered.

Council recently commissioned a study to inform and guide decision making on matters such as rezonings/planning proposals, development applications and broader strategic plans. The initial findings of the Study reinforce the importance of protecting Camden's remaining rural land, recommend methods for dealing with future land use conflicts such as the M9 and urban development within the South West Priority Growth Area, and identifies opportunities for agricultural industry associated with the development of the Western Sydney Airport.

There is the opportunity for these findings to inform the future work of the GSC with regard to the future of Camden's rural lands, as outlined in the draft District Plan.

The review of 'A Plan for Growing Sydney' (expected to be released for comment towards the end of 2017) will consider the relationship between transport corridors and land use boundaries resulting from the resolution of a preferred alignment for the Outer Sydney Orbital. The development of the Outer Sydney Orbital has the potential to provide a visible, defensible boundary to Sydney's outer western city limit which would define and contain Sydney's urban growth. It is important that the corridor be located so as to have minimal impact on Camden's rural lands.

Recommendation:

- That the GSC consider the findings of the Rural Lands Study to inform any future investigation of Camden's rural land.
- All future urban development located within the Growth Centres, but adjoining rural land not identified for future urban development, is required to include a transitionary zoning to reduce landuse conflict.
- The District Plan identify the "urban edge" for the Camden LGA and that this boundary be reflected within the Growth Centres SEPP.

Environment

The draft District Plan identifies the need to protect and enhance the South West Districts unique environmental qualities and its distinctive landscape. Council supports the focus on enhancement of environmental qualities for the district as this is an important element of Camden's Community Strategic Plan Camden 2040.

The ongoing urban development of the Camden LGA particularly within the SWPGA has placed significant pressure on existing ecosystems. Actions such as S3 Protect the South Creek environment and development approaches to achieve excellent environmental performance are supported by Council.

Management of this riparian corridor during and after urbanisation of the surrounding lands is an important issue for Council as this corridor plays a major role in flood management and mitigation and environmental amenity.

Council acknowledges there is an excellent opportunity for the GSC to work closely with Council, landowners and the Office Of Environment and Heritage to secure the length of the South Creek corridor (within the Camden LGA) to preserve the green grid in public ownership. It is also noted that a substantial portion of the land is currently under investigation as part of a rezoning process with the DPE.

Recommendation

The GSC, Council and OEH develop and investigate a regional strategy for the South Creek catchment including development of a funding framework for acquisition and long term management.

GSC, Council and landowners investigate recreational opportunities associated with the development of land within and adjacent to the South Creek corridor.

Conclusion

The draft South West District Plan provides an overview of key strategic directions to inform the development of the future Western City. Broadly these objectives are supported, however, success is dependent on the ability to implement the District Plans and require all levels to participate in their implementation.

The draft submission provides a number of recommendations for the consideration of the GSC. In summary Councils key concerns relate to seeking a commitment from the GSC and State Government in relation to:

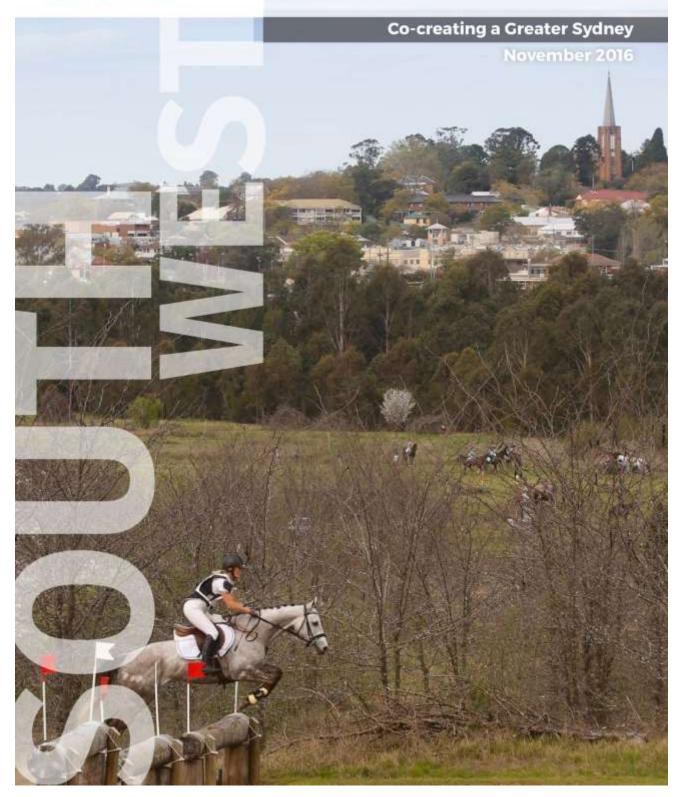
- · Delivery the SWRL extension from Leppington to Narellan, inclusive of timing;
- A review of the development contributions framework and identify funding mechanisms for key deliverables from the District Plan;
- A review of the policy framework in NSW with respect to inconsistencies between policies;
- The release of new housing precincts to be matched by provision and timing of key infrastructure; and
- The completion of the Centres Hierarchy Study within 12 months of the finalisation of the District Plans.

Camden's ability to continue to deliver growth and meet mandated housing targets is reliant upon these recommendations being implemented jointly by the State Government and the GSC.

Without this commitment from State Government and the GSC Council cannot deliver the productive, sustainable and liveable places required for the Western City of Sydney to succeed.

Greater Sydney Commission

Draft South West District Plan



How to be involved

Attachment 2

This draft District Plan sets out aspirations and proposals for Greater Sydney's South West District, which includes the local government areas of Camden, Campbelltown, Fairfield, Liverpool and Wollondilly. It has been developed by the Greater Sydney Commission.

This draft District Plan is on formal public exhibition until the end of March 2017, and will be finalised towards the end of 2017 to allow as many people as possible to provide input. You can read the entire draft District Plan at www.greater.sydney and send feedback

- via www.greater.sydney
- by email:
- engagement@gsc.nsw.gov.au

by post:

Greater Sydney Commission: Draft South West District Plan PO Box 257 Parramatta NSW 2124 Before making a submission, please read our privacy statement at www.greater.sydney/privacy

For more information:

visit www.greater.sydney

call us on 1800 617 681 or email engagement@gsc.nsw.gov.au

This document was updated on 21 December 2016 to address typographical errors and production faults. A detailed list of the errata can be found at www.greater.sydney/content/publications

Draft South West District Plan Exhibition



You can view these supporting components, as well as Our vision – Towards our Greater Sydney 2056, our proposed 40-year vision for Greater Sydney, at www.greater.sydney.

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Chief Commissioner's Foreword

On behalf of the Commissioners and staff of the Greater Sydney Commission, I acknowledge the traditional owners of the lands that include the South West District.

We acknowledge the living culture of the traditional custodians of these lands, recognise that they have occupied and cared for this country over countless generations, and celebrate their continuing contribution to the life of Greater Sydney.

This draft District Plan sets out a vision, priorities, and actions for the development of the South West District of Creater Sydney.

Of all our Districts in Greater Sydney, the South West is undergoing the most dramatic change. One of the key issues for the community is transport in all its forms – investment in new public transport and roads, as well as walking and cycling is essential to support this growth. These growing and new communities also need access to smart jobs, which will be significantly boosted by the once-in-a-lifetime opportunity of the Western Sydney Airport.

Importantly, as the population grows and many more homes, workplaces, transport and public spaces are created, we must encourage the highest quality urban design. We want to work across government and the private sector to deliver functional, sustainable and welcoming places, spaces and streets and a diversity of housing types and price points so that more people can afford to live in the area that best suits their needs.

Everyone benefits when there is more clarity on our planning for Greater Sydney and better guidance on what we should prioritise. In getting this right, we recognise that collaboration will be key. There is a diversity of opportunities and challenges in the District, with many different people, places and organisations involved. The Greater Sydney Commission has been established to bring together all the various parties with an interest in the District's future and channel this collective energy into better planning outcomes.

By taking a leadership role, we can make sure that public resources and expertise are brought together to create a more productive, liveable and sustainable city.

We will advocate for effective infrastructure to keep pace with population growth and adequately monitor and plan for demographic changes such as increases in the proportions of children and the frail aged in the community. We will support the coordination of every area of government activity and delivery - transport, infrastructure, land use, housing, health, education, heritage and environment. We will work positively with the private sector and local government.

I thank everyone from the community, industry, councils, government and the many stakeholder groups who have spoken to us and contributed their ideas and wisdom to develop this draft District Plan. I encourage everyone to take time to review this draft District Plan and provide feedback. Your suggestions, comments and opinions will be crucial in making this Plan a living and working document to guide the South West District's future.

Lucy Hughes Turnbull AO Chief Commissioner



District Commissioner's Foreword

The South West District is Greater Sydney's urban parkland, where urban lifestyles meet rural living and residents enjoy the best of both worlds. It's rich in Aboriginal, colonial and migrant history and heritage and is one of the most culturally diverse communities in Australia.

It's also one of the fastest growing districts in Greater Sydney. Over the next 20 years, its population will increase to over one million people and our mostly rural landscape will undergo dramatic changes.

The biggest game changer will be the new Western Sydney Airport and the transport and jobs it will bring. The South West District has the potential to become Australia's most connected place and to transform the South West's current locational disadvantage into its key advantage. The proposed Western Sydney City Deal between the Australian and NSW Governments, working with local government will also drive this growth.

Greater Sydney's history and its future meet in the South West District, presenting us with great opportunities as well as complex challenges.

Our opportunity is to re-create the South West as part of the emerging city of many centres, jobs and opportunities around Western Sydney Airport: our challenge is to ensure the provision of jobs, transport and social infrastructure keeps pace with our population growth.

Our opportunity is to create great places, not just to build houses for a new population almost the size of Canberra's, and do so in just 20 years; our challenge is to manage the scale of urban growth and renewal to deliver high quality urban design, housing diversity and choice, as well as affordable housing.

Our opportunity is to strengthen our identity as an urban parkland district, set around three rivers, nestled in rural hinterland and cradled by bushland and rugged mountains: our challenge is to protect and enhance our rivers and bushland, our visual landscape of scenic hills and ridgelines, and our access and connections to them.

Our opportunity is to create and maintain places and communities where people can work, shop, attend school and enjoy recreation and leisure activities within walking distance or a short drive from their home our challenge is to be an inclusive district that welcomes new residents, celebrates and builds on our modern, thriving multicultural community, builds social cohesion, and engages everyone in community life and the decisions that affect them.

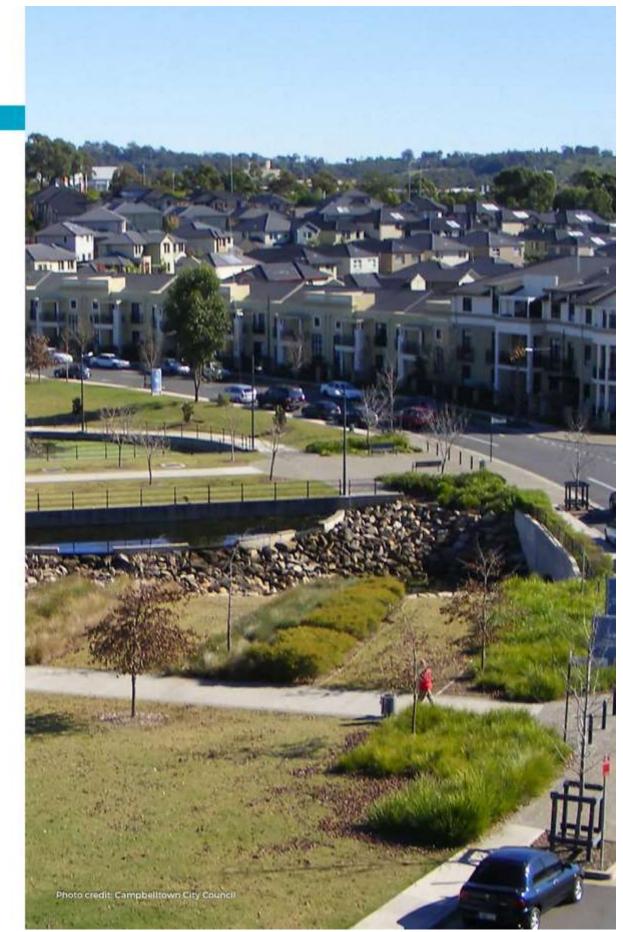
This draft District Plan is part of a conversation between all of us who live and work here, about how we can come together to realise these opportunities and address the challenges to create great places to live and the kind of South West District to which we aspire.

I'm eager for as many people as possible to get involved as we finalise this draft District Plan. It's an important first formal step in helping to shape the decisions that will drive the District's future.

Sheridan Dudley

South West District Commissioner





Our vision – South West District <mark>2036</mark>

20-year vision, priorities and actions for the South West District

South West Sydney is a place where opportunity, success and prosperity are forged from humble beginnings, where innovation thrives, smart jobs are created, international business connections are established and global investment is supported. Local people form the basis of a highly skilled and educated workforce that continues to grow and invest in itself and its future.

With its positive image and reputation as the lifestyle capital of Sydney, the South West District will be a global innovation gateway and a destination of choice for existing and new communities, local residential development and visitors.

The District's physical expanse, highly valued natural topography, enriching landscape and vibrant and cohesive community will offer a greater range of distinct and authentic precincts with culturally diverse food, inspiring stories and genuine experiences.

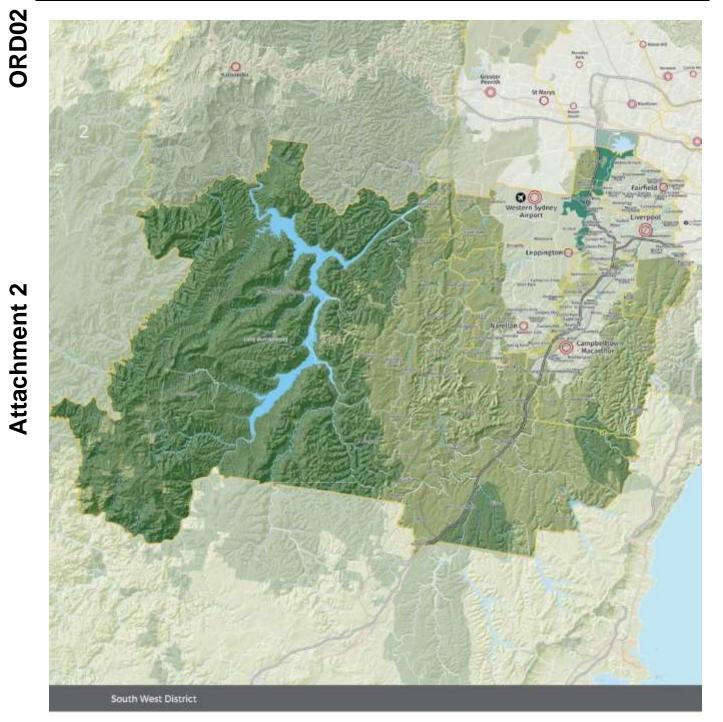
Drawing on its rich Aboriginal, colonial and migrant heritage, the District's thriving tourism industry and world-class health and education facilities will make it a leader in health-related innovation and employment. Health and education hubs in Campbelltown-Macarthur and Liverpool will provide a range of business, investment and work opportunities. The District will draw on these distinct yet complementary centres that form part of the 'string of pearls' around the Western Sydney Airport, a national and international gateway.

The District will be a great place to live with a wide variety of housing choices that are located close to jobs and which accommodate the needs of a growing and diverse population. People will enjoy a choice of shopping experiences in the strategic centres of Campbelitown-Macarthur and Liverpool, the district centres of Fairfield, Leppington and Narellan, and local centres with distinctive characters such as Cabramatta, Camden and Picton.

The District's many active and safe places, vibrant main streets and public areas will be connected by integrated, safe and reliable public transport, roads, cycleways and pedestrian links.

A range of jobs will be close to where people live, in industries such as health, aged care, hospitality, retail, food production, construction, freight and logisitos and resource and mineral extraction. A well developed, advanced manufacturing sector will support the medical and tertiary education sectors.

Opportunities for new businesses will emerge in the expanding suburban areas around Austral and Leppington as well as the new aerotropolis. The strong and progressive rural sector will continue to help feed Greater Sydney while leveraging the export opportunities provided by the new airport. The District will also continue to take advantage of its connections to the Southern Highlands, the Illawarra, Canberra, major ports and freight facilities.





South West District: Priorities and actions

This draft District Plan identifies priorities and actions to realise the vision for the District. This section lists the overarching priorities that will inform strategic planning and summarises the actions outlined in each chapter.

Action tables in this section identify outcomes, lead agencies and partner agencies (partners). Further detail on the priorities is included throughout this draft District Plan in terms of implementation and monitoring priorities (Chapter 1) and productivity, liveability and sustainability priorities (Chapters 3, 4 and 5 respectively).

Key:	
AA	Aboriginal Affairs
CCNSW	Cemeteries and Crematoria NSW
CHPs	Community Housing Providers
DoE	Department of Education
Dol	Department of Industry
DPE	Department of Planning and
	Environment
EPA	Environment Protection Authority
GSC	Greater Sydney Commission
INSW	Infrastructure NSW
OEH	Office of Environment and
	Heritage
OGA	Office of Government Architect
TfNSW	Transport for NSW

Implementation and monitoring actions (Chapter 1)

Action	Outcome	Lead agency	Partners
IM1: Align land use planning and infrastructure planning	Inform the NSW Government's infrastructure decision-making	GSC	INSW, TfNSW, NSW Health
IM2: Develop a framework to monitor growth and change in Greater Sydney	Inform the ongoing actions and infrastructure investments of Covernment required to deliver A Plan for Crowing Sydney and the District Plans	GSC	÷
IM3: Develop an interactive information hub - the Greater Sydney Dashboard	Enhance the community's understanding of the performance and characteristics of Greater Sydney	GSC	
IM4: Report on local planning	Improve the understanding of the effectiveness of District Plans in delivering on the stated priorities and actions	GSC	Councils

Attachment 2

4

Productivity priorities and actions (Chapter 3)

The proposed priorities and actions for a productive South West District draw significantly from the once-in-a-lifetime opportunity of the Western Sydney Airport and the development of the Western City. This will significantly influence land use patterns, and associated investment will drive jobs growth. Liverpool and Campbelltown-Macarthur will be the focus as health and education super precincts, with both providing a mix of retail and civic uses. The overarching priorities are

- Creating a framework to deliver the Western City
- Integrating land use and transport planning to drive economic activity
- Planning for job target ranges for strategic and district centres
- Growing and diversify the economic opportunities of the District's strategic centres
- Growing jobs in the health and education sectors
- Coordinating infrastructure planning with population growth – enhancing local access
- Strengthening the diversity of employment choice

Action	Outcome	Lead agency	Partners	
PI: Establish the Western Sydney City Deal	Increase in total jobs	Australian and NSW Governments	Councils	
P2: Develop and implement an economic development strategy for the Western City	Increase total jobs and proportion of health and education and knowledge and professional services jobs	Dol	CSC, Jobs for NSW, AA Councils DPE, Liverpool & Campbelltowr Councila	
P3:Develop and implement a centres framework for the District	Increased investment, increased jobs, reduced retail escape expenditure	csc		
P4: Review the role and staging of the Leppington town centre in the context of the Western Sydney Airport and Western Sydney City Deal	investor certainty	GSC, Camden Council		
P5: Develop and implement a Framework for the Enterprise corridor	Increased investment, increased jobs	DPE	GSC, Councils	
P6: Identify transport improvements which deliver east west and north south connectivity	Improved transport connectivity	TfNSW	₹	
P7: Build the Badgally transport connection, including an active transport link	Improved transport connectivity	TfNSW	2	
P8: Prioritise the planning of Spring Farm Parkway	Improved transport connectivity	TfNSW	e.	
P9: Develop a threshold for greenfield dwelling numbers based on transport provision	Development linked to infrastructure	DPE	1000	

Productivity Actions

Action	Outcome	Lead agency	Partners	
P10: Encourage and support the use of public transport	Increased public transport patronage	TfNSW	-	
PII: Develop specific guidelines to inform the planning of new communities in land release areas	Improved integrated land use, transport and environmental planning and improved productivity, liveability, and sustainability outcomes	DPE	•	
P12: Develop a South West Priority Growth Area land use and infrastructure plan	Improved infrastructure decision making and investor certainty	DPE	Councils, TfNSW, GSC	
P13: Designate Liverpool as a Collaboration Area	Increase in total jobs and increase in total health and education and knowledge and professional services jobs	csc	TfNSW	
PI4: Support the development and delivery for the Campbelltown- Macarthur strategic centre of a CBD transformation plan	Increase in total jobs and Increase in total health and education and knowledge and professional services jobs	GSC	Campbelltown Council	
PI5: Plan for the Liverpool health and education super precinct as part of the Liverpool Collaboration Area	Increase in health and education jobs	csc	NSW Health	
PI6: Work with State agencies, especially Sydney Water, to enable the timely delivery of infrastructure for employment and urban services land	Timely land release / land development	DPE, utility providers, Councils	7 .	
P17: Set parameters for the delivery of local jobs as a condition of approval for rezoning in new release areas	Increase in total local jobs	DPE	CSC	
P18: Plan for and facilitate the attraction of new jobs in Wilton New Town	Increase in total local jobs	DPE	Wollondilly Council	
P19: Identify and plan for efficient movement of freight to, from and within the District, with least impact on residents' amenity	Improved freight transport connectivity	NSW Government	-	
P20: Provide adequate access to and from the Moorebank Intermodal Terminal	Improved freight transport connectivity	TÍNSW		
P21: Leverage the South West District's potential as a visitor destination	Increased visitation	Destination NSW. Councils	csc	
P22: Developing better understanding of the value and operation of employment and urban services land	Increase in total jobs	csc	Councils	

Liveability priorities and actions (Chapter 4)

The proposed priorities and actions for a liveable South West District recognise significant population growth must be accompanied by high quality urban design and a diversity of homes, streetscapes, jobs and things to do. Historic country towns such as Camden and Picton and multicultural hubs like Cabramatta will be protected. Planning for new communities will be supported with coordinated planning for social infrastructure and public transport. The overarching priorities are:

- Improving housing choice
- · Improving housing diversity and affordability
- Coordinating and monitoring housing outcomes and demographic trends
- Creating great places
- Fostering cohesive communities
- Responding to people's need for services



SOUTH WEST DISTRICT

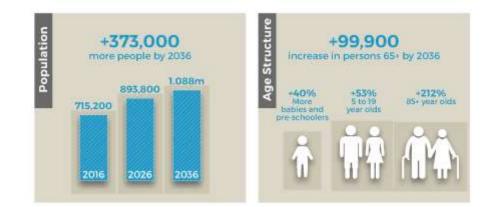
Liveability Actions

Action	Outcome	Lead agency	Partners	
L1: Prepare local housing strategies	Increase in diversity of housing choice	Councils	1	
L2: Identify the opportunities to create the capacity to deliver 20-year strategic housing supply targets	Creation of housing capacity	csc	Councils. DPE	
L3: Councils to increase housing capacity across the District	Creation of housing capacity and increase in diversity of housing choice	Councils	5	
L4: Encourage housing diversity	Increase in diversity of housing choice	DPE		
.5: Independently assess need and viability	Increase in affordable rental housing	csc	Industry, CHPs, DPE	
.6: Support councils to achieve additional affordable housing	Increase in affordable housing	csc	Councilis, DPE	
.7: Provide guidance on Affordable Rental Housing Targets	Increase in affordable rental housing	CSC	DPE, Councils, State agencies, CHPs	
.8: Undertake broad approaches to facilitate affordable housing	Increase in affordable housing	csc	Councils, including CHPs	
.9: Coordinate infrastructure planning and delivery for growing communities	Change in industry perceptions (surveyed)	GSC	DPE	
10: Provide data and projections on population and dwellings for ocal government areas across Greater Sydney	Contribute to more informed infrastructure investment decisions, strategic planning and plan making	DPE		
.11: Provide design-led planning to support high quality urban design	Contribute to improved sustainability, productivity and liveability outcomes	OCA	csc	
.12: Develop guidelines for safe and healthy built environments	Contribute to improved health outcomes and increased walking and cycling	GSC	DPE	
13: Conserve and enhance environmental heritage including Aboriginal, European and natural	Identification and protection of heritage elements	OEH. DPE. AA	GSC. Councils	
14: Develop a South West District port and recreation participation strategy and sport and recreation acility plan	Contribute to informed decision making for sport and recreation infrastructure and increased participation	Office of Sport	Councils	
.15: Support planning for shared spaces	Increase in the provision of community facilities, including open space	csc	State agencies, organisations, providers	
.16: Support planning for school acilities	Improved education Infrastructure decision making	DPE	NSW Property. DoE	
17: Support the provision of ulturally appropriate services	Improved decision making with the aboriginal community	GSC. AA	-	
18: Support planning for mergency services	Contribute to improved decision making for emergency services operators	DPE	-	
19: Support planning for cemeteries and crematoria	Improved decision making for new cemeteries	CCNSW	5	

Sustainability priorities and actions (Chapter 5)

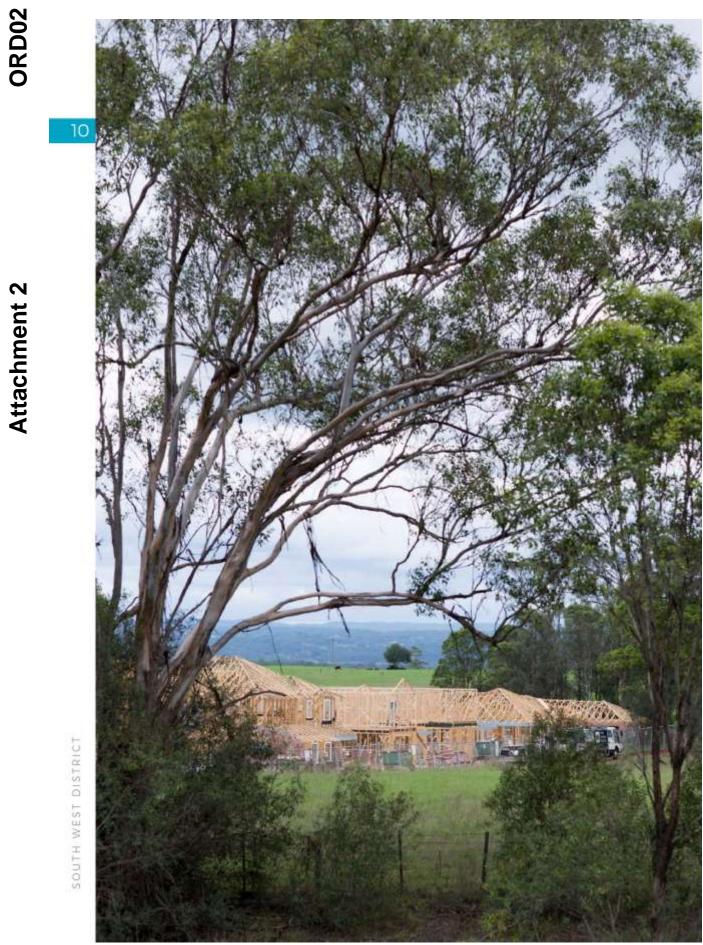
The proposed priorities and actions for a sustainable South West District will focus on the District's many waterways, including the Nepean River, Ceorges River and South Creek, and the many vistas, landscapes and ridgelines that shape the District's environment. Areas of native vegetation, biodiversity and ecological communities will be protected, as will the Metropolitan Rural Area – rural land in areas like Wollondilly and Camden that includes transitional land between urban and rural areas, land use for food production and landscapes with highly valued scenic views. The overarching priorities are:

- Enhancing the South West District in its landscape
- Protecting the natural beauty of District's visual landscape
- · Protecting the District's waterways
- · Protecting and enhancing biodiversity
- · Delivering Sydney's Green Grid
- · Managing the Metropolitan Rural Area
- Creating an efficient South West District
- · Planning for a resilient South West District
- Managing flood hazards in the Hawkesbury-Nepean Valley



Sustainability Actions

Action	Outcome	Lead agency	Partners	
SI: Protect the qualities of the Scenic Hills landscape	Protection through statutory controls	csc	DPE, Councils	
S2: Review criteria for monitoring water quality and waterway health	Improved water quality and waterway health	OEH	csc	
S3: Protect the South Creek environment and development approaches to achieve excellent environment performance	Improved water quality and waterway health, and integration of South Creek into land use planning	CSC	EPA	
S4: Improve the management of waterways in Priority Growth Areas	Improved water quality and waterway health	DPE		
S5: Monitor water levels and water quality in Thirimere Lakes	Improve water quality and waterway health	OEH		
S6: Develop a Strategic Conservation Plan for Western Sydney	Protection and management of areas of high environmental value	OEH, DPE	csc	
S7: Update information on areas of high environmental value	Protection and management of areas of high environmental value	OEH, DPE	Councils	
S8: Use funding priorities to deliver the South West District Green Grid priorities	Delivery of the green grid priorities	GSC, TÍNSW, OEH	Councils	
S9: Develop support tools and methodologies for local open space planning	Improved utilisation of open space and increased provision of open space	CSC	-	
SID: Update the Urban Green Cover in NSW Technical Guidelines to respond to solar access to roofs	Protection of solar access to roofs	OEH, DPE	-	
SII: Identify land for future waste reuse and recycling	Identification of land for waste management	EPA, DPE	Councils	
S12: Embed the NSW Climate Change Policy Framework into local planning decisions	Contribute to energy efficiency, reduced emissions and improve environmental performance	GSC	Councils, OEH	
SI3: Support the development of initiatives for a sustainable low carbon future	Contribute to energy efficiency, reduced emissions and improve environmental performance	GSC, Councils, DPE	-	
SI4: Support the development of environmental performance targets and benchmarks	Contribute to improved environmental performance	CSC	NSW Climate Council, Australian Government, utility provider	
the of urban heat island effect into planning for urban renewal	Contribute to reductions in ambient temperatures	DPE	-	
quality and noise measures for development near rail corridors	Improved land use and transport decision making	EPA, DPE	2 5	
high impact areas for noise and air	Improved land use and transport decision making	EPA	DPE, Councils	
	Protection of life and property	DPE, INSW	GSC, Councils	
targets and benchmarks SI5: Incorporate the mitigation the of urban heat island effect Contribute to reductions in into planning for urban renewal ambient temperatures projects and Priority Growth Areas Contribute to reductions in SI6: Review the guidelines for air Improved land use and transper quality and noise measures for Improved land use and transper development near rail corridors Improved land use and transper s17: Identify and map potential Improved land use and transper bigh impact areas for noise and air Improved land use and transper bills Address flood risk iscure in the S18. Address flood risk iscure in the		DPE EPA, DPE EPA	Governme utility prov - - DPE, Coun-	



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I Introduction

This draft District Plan proposes a 20-year vision for the South West District, which includes the local government areas of Camden, Campbelltown, Fairfield, Liverpool and Wollondilly. It has been developed by the Greater Sydney Commission in consultation with State agencies and the community, with technical input from councils.

The South West District will transform over the next 20 years. It was one of the first districts to be settled in the early colony and is now one of Greater Sydney's fastest growing districts. The investment in the Western Sydney Airport will be driven by the Australian and NSW Governments with local government through the Western Sydney City Deal. With the Airport's associated transport infrastructure and the growing employment hubs in Campbelltown-Macarthur and Liverpool, more of the District's people will be able to work closer to where they live and reduce the time they spend commuting.

Our work on this draft District Plan builds on the District's characteristics, while drawing on a robust body of technical material that looks into Greater Sydney's changing demographics, economy, housing, open spaces and many other characteristics. It also incorporates feedback garnered through our #GreaterSydney engagement during 2016.

#GreaterSydney: Insights from the community

Our conversations with the community through our #CreaterSydney engagement have provided valuable insights into what the community values about the District and what people want to see changed. We have sought to encapsulate these inputs into this draft District Plan.

People in the South West told us they want better access to jobs, infrastructure and places for sport, recreation and leisure. They want better transport infrastructure and services, especially as the population grows, and they want to spend less time commuting.

People are keen to see more diverse and affordable housing options within the District, including a mix of low, medium and high density housing.

They know that as the population grows, new areas will be developed – and they want these new places to be well-designed, sensitive to the heritage and character of the area, and environmentally sustainable.

We see this draft District Plan as a first step in the planning for the South West District. We want as many people as possible to continue to engage with us as we work to develop the draft District Plan further towards finalisation at the end of 2017.

We intend to achieve this by building collaboration and listening into everything we do.

Attachment

1.1 The role of district planning

Planning in Greater Sydney has traditionally happened at two levels. The NSW Government developed overarching plans that considered Greater Sydney's growing population, where people will live and what kind of jobs and transport they will need; while local government developed local environmental plans to identify how land can be used, including for housing, businesses and parks.

What has been missing is the district-level planning that connects local planning with the longer-term metropolitan planning for Greater Sydney. To facilitate this connection, Greater Sydney is designated into six Districts that represent neighbouring groups of council areas with similar features and common communities of interest. You can see a map of the six Districts at our website www.greater.sydney.

City planning is dynamic. In preparing this draft District Plan during 2016, we have been mindful of the changing technologies and evolving thinking that will impact Greater Sydney to 2036.

The city-making implications of issues such as driverless cars, emerging business trends, climate change and housing affordability will require further research and testing. For these reasons, this draft District Plan represents a moment in time but will, with your feedback and our commitment to ongoing research, be a living document to better navigate the issues influencing Greater Sydney to 2036. The Environmental Planning and Assessment Act 1979 (EP&A Act) requires each District Plan to:

- provide the basis for strategic planning in the District, having regard to economic, social and environmental matters
- establish planning priorities that are consistent with the objectives, strategies and actions of A Plan for Growing Sydney
- identify actions required to achieve those planning priorities.

This draft District Plan meets these requirements by:

- progressing the directions of A Plan for Growing Sydney
- identifying planning priorities for the District and the actions to achieve them.

This draft District Plan translates and tailors metropolitan planning priorities for each District by giving effect to the four goals of A Plan for Growing Sydney:

- Goal 1: A competitive economy with world-class services and transport
- Goal 2: A city of housing choice, with homes that meet our needs and lifestyles
- Goal 3: A great place to live with communities that are strong, healthy and well connected
- Goal 4: A sustainable and resilient city that protects the natural environment and has a balanced approach to the use of land and resources.

To do this, this draft District Plan interweaves these goals by describing proposed priorities and actions for the District in terms of

- A productive city (Goal 1)
- A liveable city (Goals 2 and 3)
- A sustainable city (Goals 3 and 4).

This draft District Plan is accompanied by a draft amendment to A Plan for Growing Sydney, as noted in Section 11.1 and detailed in Chapter 2.

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This draft District Plan includes three chapters focusing on the means to enhance the District's productivity, sustainability and liveability in accordance with A Plan for Growing Sydney and the Commission's mandate.

Many elements discussed in these chapters are interrelated. For example, the issue of housing is as much about liveability as it is about productivity and sustainability; our planning for jobs is as important to a productive city as it is to liveable and sustainable city.

While we use chapters to discuss policy areas, we recognise that cohesive and vibrant cities have overlapping components and an integrated approach to city making is crucial to success.

"It is not a vaguely idealistic plan. It has been based on proven facts, and if its authors have looked upward to the stars they have kept their feet upon the ground. We feel that it is a commonsense scheme, practical in its economics and finance.

"It recognises that, next to our people, the land is our greatest asset. Realisation of the Plan in measured stages will unlock the land far its best community use, so that present and future citizens may be able to meet the challenge of advances in technology, economics, social sciences and culture, and secure their benefits for all."

County of Cumberland Plan, 1948

As noted above, legislation requires district planning to give consideration to the Greater Sydney Region Plan, currently A Plan for Growing Sydney. District planning must also consider priorities identified by the Minister for Planning and other relevant plans, strategies and NSW Government policies including:

- the Premier's and State Priorities (September 2015) that seek to create jobs, encourage business investment and increase housing supply
- the Ministerial Statement of Priorities (January 2016) that includes strategic planning for Parramatta, Penrith, Liverpool and Campbelltown
- updates to the State infrastructure Plans for 2015/16 and 2016/17
- the Western Sydney City Deal (Memorandum of Understanding signed October 2016)
- the initiatives of Jobs for NSW.

These matters, which give greater clarity to Greater Sydney's strategic planning framework, combined with the evolving nature of Greater Sydney, emerging technologies and the complexity and dynamism of city planning, have generated new thinking in strategic planning for Greater Sydney.

1.1.1 Draft amendment to A Plan for Growing Sydney

To allow our planning for Greater Sydney to relate to our best understanding of the future, this draft District Plan introduces a longerterm, transformational focus on the patterns of development needed for Greater Sydney to be a productive, liveable and sustainable Global Sydney. This ambitious 40-year vision for Greater Sydney as a metropolis of three cities is detailed in Chapter 2.

This 40-year vision is a draft amendment to A Plan for Growing Sydney. It is on exhibition alongside this draft District Plan so that feedback around the concept of Greater Sydney as a metropolis of three cities can inform the review of A Plan for Growing Sydney. You can download a standalone version of the draft amendment, titled Towards our Greater Sydney 2056 by visiting www.greater.sydney.

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In this context, this draft District Plan foreshadows how the proposed amendment could influence planning for the District's productivity, liveability and sustainability while also giving effect to A Plan for Growing Sydney.

Concurrent with the review of A Plan for Growing Sydney in 2017, Transport for NSW will develop the Future Transport Strategy and Infrastructure NSW will review the State Infrastructure Strategy.

Given the important interconnected nature of these and other NSW Government strategies, the Commission, Transport for NSW and Infrastructure NSW will align work programs to the end of 2017 to include:

- inputs, assumptions and scenario analysis to inform the development of the plans and strategies
- events for community and stakeholder engagement
- timeframes for key milestones.

This approach will not only allow for a better and more integrated outcome for Greater Sydney but a more transparent approach for stakeholders. 1.1.2 What this draft District Plan means for local planning

As a document for discussion, this draft District Plan proposes actions that could influence how different levels of government plan for the District, and how public and private investment decisions are made – directly influencing growth and change.

For local government, this draft District Plan will:

- Inform the preparation of local environmental plans
- Inform assessments or planning proposals
- guide strategic land use, transport and infrastructure planning across local government areas
- Inform infrastructure planning.

Section 75AI of the Environmental Planning and Assessment Act 1979 (EP&A Act) requires local environment plans to be updated to give effect to each District Plan as soon as practicable after a District Plan is made.

This process may require a comprehensive review or be staged to reflect the local government area priorities identified in each District Plan, and to allow for more targeted engagement on these priority areas. This approach will also help councils to manage resources.

Figure 1-1: The regional and district planning process (2016/2017)



1.1.3 Status of the draft District Plan

While councils are required to give effect to District Plans as soon as practicable after a District Plan is made, draft District Plans will guide the preparation of planning proposals under Part 3 of the Act. This is established by the Department of Planning and Environment's *Guide to Preparing Planning Proposals* (August 2016).

The Guide lists assessment criteria for a planning proposal, which include but are not limited to consideration of the strategic merit of the proposal, the site-specific merit of the proposal and consistency with strategic plans, including draft District Plans, State environmental planning policies and Ministerial directions.

Planning principles

A Plan for Growing Sydney identified three planning principles that remain current and underpin many of the priorities of this draft District Plan.

Principle 1: Increasing housing choice around all centres through urban renewal in established areas

Increasing housing close to centres and stations makes it easier to walk or cycle to shops or services, and to travel to work or other centres; reduces traffic congestion; and makes our neighbourhoods more community oriented.

Increasing the variety of housing available makes it easier for people to find a home that suits their lifestyle, household size and their budget.

Locating new housing in centres delivers a range of economic, environmental and social benefits to the community. Research by the Organisation for Economic Cooperation and Development (OECD) has similarly found that productivity benefits arise from a more compact city.

Principle 2: Stronger economic development in strategic centres and transport gateways

Locating jobs in around 30 to 40 large centres across Greater Sydney provides the greatest benefits to the city's overall productivity. Local environmental plans will continue to determine whether development is permitted or prohibited on land. While a draft District Plan or District Plan is not a mandatory matter for consideration in the determination of a development application, a consent authority may decide to consider a draft District Plan or District Plan to the extent it relates to the objects of the EP&A Act.

The inclusion of *Our vision – Towards our* Greater Sydney 2056 in Chapter 2 of this draft District Plan foreshadows our research and the evolution of our thinking that will inform the review of *A Plan for Growing Sydney* during 2017. It does not replace the legal status of *A Plan for Growing Sydney* as the current Greater Sydney Region Plan.

Greater Sydney's largest and most important hubs for business and employment are 'strategic centres' and 'transport gateways'.

These locations will be an important focus for future growth because of their size, diversity of activities, their connections (mainly to the rail network), and the presence of major institutional activities such as health and education facilities or Greater Sydney's major airports and port.

Principle 3: Connecting centres with a networked transport system

The public transport network connects people to centres. In doing this, it connects people to jobs, education facilities, health centres and hospitals, and sporting, cultural and entertainment facilities.

Centres rely on efficient transport to serve their customers, support their growing business and freight functions, and to connect to the global economy.

Efficient links within centres improves convenience for customers, and efficient links into centres and between centres helps people to get to jobs, schools, universities, shops and leisure activities.

Making it easy to get to centres and offering a range of services at centres makes them a focal point for the community and increases prospects for economic growth and Job creation. SOUTH WEST DISTRICT

Attachment

1.2 Implementation

The final District Plan will be formally reviewed every five years, but as a living document, we plan to update it more regularly in response to new government infrastructure, policies, emerging trends or other factors influencing its currency.

1.2.1 Managing implementation

This draft District Plan identifies a number of implementation mechanisms.



As the Commission is an independent agency, some actions and priorities included within this draft District Plan may not be NSW Government policy and may be subject to a business plan.

1.2.2 Planning for land use and infrastructure

As Greater Sydney grows, we need to more efficiently and effectively align land use planning and infrastructure investment. This is one of our key objectives. It forms the basis of the work we have commenced with State and local government to identify the infrastructure required to deliver this draft District Plan and prioritise it by place and time.

Our insights, as described within this draft District Plan, are drawn from our knowledge of:

- existing NSW Government infrastructure commitments and existing investigation areas for new housing
- forecasts in terms of population increases and locations where growth is anticipated, including jobs in centres
- annual monitoring of changes in development activities across Greater Sydney, with a primary focus on housing.

With these insights, we can provide greater clarity around the future location of new land uses in Greater Sydney. This feeds into the planning for infrastructure, from city-shaping infrastructure such as new rail lines that are usually planned by the NSW Covernment, to local infrastructure such as local roads or parks and community facilities that are usually planned by councils.

For NSW Government infrastructure planning, we will utilise our cross-agency infrastructure Delivery Committee to facilitate collaboration on infrastructure issues across districts and Greater Sydney. We will also develop an Annual Infrastructure Priority List for the NSW Government to inform decision-making on infrastructure provision at a State, district and local level.

For local government infrastructure planning, our insights into expected and actual growth in housing can present an opportunity for councils to align their capital programs and infrastructure scheduling, and collaborate across council or district boundaries as required. This will assist the timely delivery of infrastructure, make the best use public resources, and could ultimately lead to stronger coordination between State and local planning for infrastructure and land uses.

in some cases the private

sector or landowners.



Action IMI: Align land use planning and infrastructure planning

To support the efficient and effective alignment of land use planning and infrastructure:

 the Commission will prepare an Annual Infrastructure Priority List in conjunction with Infrastructure NSW to support the productivity, liveability and sustainability of the District as it grows, consistent with Action 1.11.6 of A Plan for Growing Sydney.

1.2.3 Infrastructure funding and delivery

Infrastructure is presently funded through a range of mechanisms:

- The NSW Government Budget including:
 - agency programs for education, health and transport
 - funding programs such as the Housing Acceleration Fund, Metropolitan Greenspace Program and Environmental Trust
- Australian Government funding
- State infrastructure contributions
- local infrastructure investment
- local development contributions and associated programs
- voluntary planning agreements.

In addition to these mechanisms is the concept of value capture or 'sharing'. Value sharing uses part of the economic uplift that new infrastructure and planning generates to help fund that infrastructure. New transport infrastructure, for example, can unlock a number of 'benefit streams', including direct transport benefits such as reduced travel times, and wider benefits such as reduced congestion and lower fuel consumption.

When new or upgraded infrastructure is provided in an area, many of these benefits are effectively monetised because local land values increase, reflecting the market's willingness to pay for these benefits. Value sharing enables the funder of the infrastructure – for example, the NSW Government or a local council – to participate in the market uplift and offset some of its costs. If properly executed, value sharing can:

- unlock new funding to make economically beneficial infrastructure more affordable
- spread the costs of new infrastructure more equitably among its beneficiaries
- Improve projects by providing incentives for governments to plan and design infrastructure with wider land use benefits in mind.

We recognise that, like all regulation and interventions in the market, value sharing mechanisms need to be equitable while also being efficient in terms of their operation and compliance. Value sharing mechanisms also need to be effective in terms of meeting objectives in a timely manner.

Value sharing mechanisms will only succeed with clarity around the planned infrastructure and how this will be funded - whether partially or wholly by the value sharing mechanism or what elements or areas will be funded in response to the development (for example, whether the shared funding will go towards open space and public areas, community infrastructure, roads or upgrades to utilities).

It also requires an understanding of the total amount, duration and rate of value sharing (such as dollars per square metre) that can be set while maintaining the financial feasibility of development. In some areas, this could mean that rezoning may be delayed until development is feasible, given the amount of supporting infrastructure required.

A number of NSW Government-led urban renewal areas, priority precincts and priority growth areas are addressing this through the use of infrastructure schedules.

We will continue to work across government on the amount, mechanisms and purpose of value sharing to create a more consistent approach to capturing value for public benefit, complementary with other existing mechanisms.

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1.2.4 Monitoring

The Greater Sydney Dashboard

The Greater Sydney Dashboard will be an interactive web-based tool that will provide access to indicators for cross-District issues such as jobs and housing targets to assist decision-making. It will be used to gain insights from our collaborations and build on evidence already commissioned by various State agencies and councils. The Dashboard will also include a data store to assist decision-making and strategic planning.

Monitoring the growth and change of Greater Sydney is critical to inform planning. A Plan for Growing Sydney requires us to establish a monitoring and reporting process to check on progress against the actions identified in our strategic planning documents.

Our Greater Sydney Dashboard will include indicators that outline how Greater Sydney and the District are performing against this draft District Plan's aspirations. In line with the requirement of *A Plan for Growing Sydney*, we are investigating metrics in terms of Greater Sydney's productivity. Ilveability and sustainability. We will include specific environmental reporting on:

- carbon emissions across Greater Sydney, in accordance with the C40 (Carbon Disclosure Protocol) requirements
- potable water consumption, water recycling and wastewater production across Creater Sydney
- air quality across Greater Sydney.



Action IM2: Develop a framework to monitor growth and change in Greater Sydney

As the District Plan is finalised alongside the review of A Plan for Growing Sydney and other strategic planning documents, we will have a stronger understanding of the metrics to measure Greater Sydney's economic, social and environmental performance.

To do this we will:

 develop a framework for the monitoring and reporting of the final Regional and District Plans that will consider the issues and outcomes from actions and priorities.

Action IM3: Develop an interactive information hub - the Greater Sydney Dashboard

To provide access to the latest data across a range of metrics, we will:

 develop the Creater Sydney Dashboard to include data and measures across a range of city-making areas, from population figures to environmental outputs.

Action IM4: Report on local planning

The Greater Sydney Dashboard will also monitor the implementation of each District Plan's actions and priorities. In the first instance, this will involve each council reporting to the Commission under section 75AI of the EP&A Act on:

- Its review of relevant local environmental plans to give effect to the District Plan as made
- the preparation of planning proposals under section 55 of the EP&A Act to give effect to the draft and final District Plans.

1.3 Next steps

This draft District Plan and the supporting Our vision – Towards our Greater Sydney 2056 are on formal public exhibition until the end of March 2017.

Public exhibition is an opportunity for people to contribute to the future of the South West District by providing direct feedback on the proposed priorities and actions in this draft District Plan. The draft District Plan will not be finalised until at least the end of 2017 to allow it to be aligned with the review of A Plan for Growing Sydney in 2017. Importantly, this will also provide the opportunity for newlyelected councillors to amalgamated councils to comment.

We need the community to tell us if our plans create the right places for them. We need business to tell us if they think they will be competitive and can offer new Jobs within these proposed settings. We need strategic planning practitioners to tell us if the plans can be implemented. We need industry to tell us if they'll be willing to invest in the required housing and workplaces and to do so to worldclass standards. We need State agencies to confirm that the proposed priorities and actions align with their portfolio's longer-term planning.

A range of engagement activities will help the public to get involved in the future of the South West District - visit the dedicated engagement portal at www.greater.sydney to find out more.

This is an opportunity to participate in the story of Our Sydney, your home.

By far the greatest and most admirable form of wisdom is that needed to plan and beautify cities and human communities.

Socrates

Attachment

Key Concepts and Terms at a Glance

For more terms see the glossary at the end of this document or at www.greater.sydney

Greater Sydney is defined as the 33 local government areas of Bayside, Blacktown, Blue Mountains, Burwood, Camden, Campbelitown, Canada Bay, Canterbury-Bankstown, Cumberland, Fairfield, Georges River, Hawkesbury, Hornsby, Hunters Hill, Inner West, Ku-ring-gal, Lane Cove, Liverpool, Mosman, Northern Beaches, North Sydney, Parramatta, Penrith, Randwick, Ryde, Strathfield, Sutherland, The City of Sydney, The Hills, Waverley, Willoughby, Wollondilly and Woollahra.

Eastern City: The metropolis of three cities includes the established Eastern City, which spans the North, Central and South Districts and the strategic centres of Northern Beaches Hospital, Macquarie Park (also associated with Central City), Chatswood, St Leonards, North Sydney, Sydney City, Randwick Health and Education, Green Square-Mascot, Sydney Airport, Port Botany and Kogarah.

Central City: The metropolis of three cities includes the developing Central City, which is anchored by Greater Parramatta and the Olympic Peninsula (GPOP) in the West Central District and the strategic centres of Blacktown (also associated with Western City). Norwest, Macquarie Park (also associated with Eastern City) and Rhodes.

Western City: The metropolis of three cities includes the emerging Western City focused on the proposed Western Sydney Airport. The Western City will encompass the West and South West Districts and include the strategic centres of Penrith, Liverpool. Campbelltown-Macarthur and Blacktown (also associated with Central City).

Global Sydney is the combination of the Western, Central and Eastern Cities. Sydney City includes the contiguous areas of Sydney CBD, Barangaroo, Darling Harbour, Pyrmont, The Bays Precinct, Camperdown-Ultimo Health and Education, Central to Eveleigh, Surry Hills and Sydney East.

Greater Parramatta includes Parramatta City, and the precincts of Westmead, Parramatta North, Rydalmere and Camellia.

Parramatta City covers the central business district of Parramatta.

Strategic centres have one or more of the following characteristics:

- a higher proportion of knowledgeeconomy jobs, principally relating to the presence of major hospitals, tertiary education institutions, stand alone office development or a combination of these
- the presence of existing or proposed major transport gateways
- a major role in supporting the increased economic activity of the Eastern. Central or Western Cities.

Strategic centres also tend to have over 20,000 jobs.

District centres play a significant district role due to the presence of one or more of the following characteristics:

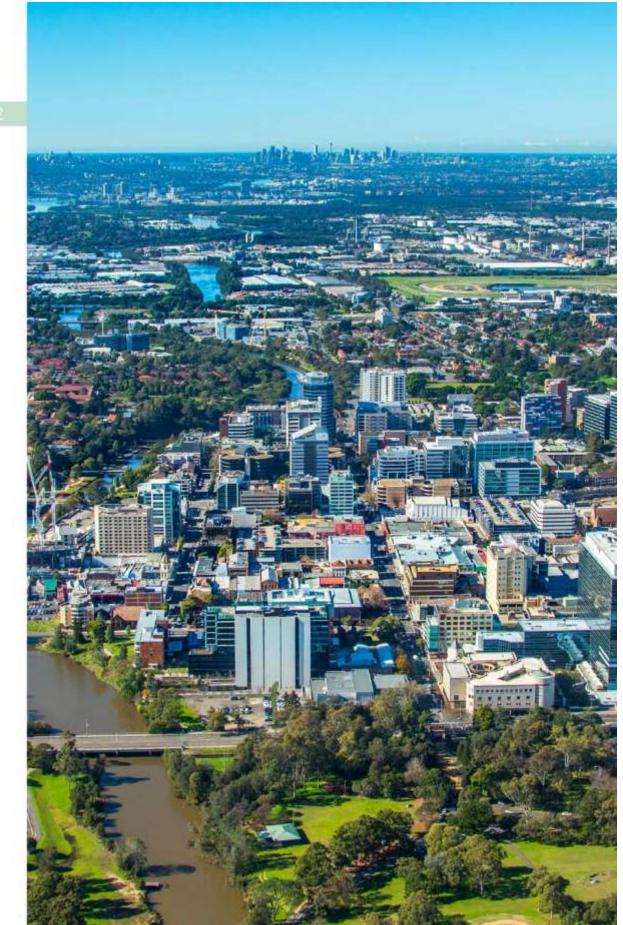
- the scale of retail activity, generally over 50,000 square metres of floor space
- the presence of health and education facilities that serve the district and the local community
- the level of transport services.

District centres also generally have between 5,000 to 10,000 jobs.

Attachment 2



Attachment 2



2 Our vision Towards our Greater Sydney 2056

Our 40-year vision to enable a more productive, liveable and sustainable Greater Sydney

This chapter outlines a draft amendment to A Plan for Growing Sydney that aligns with the vision established by this draft District Plan. It is the first step in the comprehensive work that will take place next year to review A Plan for Crowing Sydney.

This amendment reconceptualises Greater Sydney as a metropolis of three cities, and is presented with this draft District Plan to reflect the most contemporary thinking about Greater Sydney's future. As a draft amendment for consideration, this allows the community and stakeholders to provide feedback to the draft District Plan while understanding the context of an emerging Greater Sydney, which will inform our review during 2017.

You can read a standalone version of this chapter by visiting www.greater.sydney.

400

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A changing, growing **Greater Sydney**

Think about Greater Sydney as you know it today. Not only has it completely transformed in its structure and role from when it first flourished in the 19th Century, it has already surpassed the ambitious city on the Harbour that spread its reach and created its new suburbs throughout the 20th Century.

Today, Greater Sydney is an economic powerhouse, generating nearly a quarter of Australia's Gross Domestic Product (GDP). Its economy - at \$378 billion per year - is bigger than the combined value of Australia's manufacturing, mining and construction industries (Figure 2-1). Its financial strengths make it a great place for business.

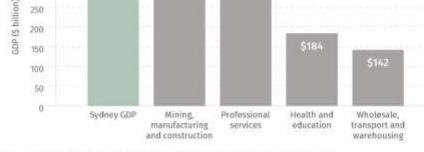
> Sydney GDP III National GDP

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Figure 2-1: Greater Sydney GDP compared to national industries (2015)



Source: Australian Bureau of Statistics: Catalogue 5204 0 Australian System of National Accounts

Attachment

Greater Sydney is home to nearly 4.7 million people, which includes 2.4 million workers. Its Eastern City, traditionally known as Sydney CBD, is the epicentre of Australia's financial sector and home to key national institutions such as the Reserve Bank of Australia and Australian Securities Exchange (ASX). Other worldrenowned institutions – such as the Sydney Opera House, Art Gallery of NSW, Museum of Contemporary Art and National Institute of Dramatic Art (NIDA) – highlight Greater Sydney's cultural and artistic credentials.

It also offers many local places that provide a diversity of lifestyle choices, from beachside to bushland settings, to busy main streets and ever-changing suburbs across its districts.

Greater Sydney's current structure – with economic activity and the transport network centred on Sydney City – has served it well, yet a singular focus on one city centre cannot continue as Greater Sydney grows, particularly when the city centre sits at the geographic edge, rather than at its geographic heart.

In a city-based economy like Australia's we need to get Greater Sydney's structure and spatial layout right.

Looking to comparable global cities, we know that few are orientated around a single large central business district like Greater Sydney. Instead, leading global cities develop alternatives in terms of where economic activity is located, how it is distributed and how different areas of economic activity are organised.

We associate these structures not only with improved productivity, but also with environmental and social benefits, as they allow for more connected and sustainable communities that provide greater opportunities without the need to travel long distances. Compare this with Greater Sydney. Already, the location of the majority of Greater Sydney's jobs in the east, combined with an increasing number of people living in the west, has created capacity constraints such as higher levels of congestion, lower rates of housing affordability and uneven access to employment choices.

Greater Sydney is that rare place: a city that is globally competitive while also sharing the lifestyle assets of smaller, highly liveable centres. Thanks to strong economic and population growth, a strong pipeline of planned investments and the need to respond to the fundamental challenges of Greater Sydney's geographic structure, now is the right moment to shape its positive transformation.

These moments are rare in Greater Sydney's history and the ability to grab them is even rarer. Think about the significance of the Sydney Harbour Bridge, the Sydney Opera House and the 2000 Sydney Olympic Games.

The building of the Harbour Bridge was more than just a connection between north and south: It signalled Greater Sydney's maturity and its confidence in the future. The Opera House was not just developed as a place to see a show - instead, it put Greater Sydney on the global stage, attracting visitors from across the world and establishing rich cultural offerings. The Olympic Games were more than a sporting event - they regenerated Greater Sydney's geographic heart and transformed thinking about an area that had been neglected.

The once-in-ageneration opportunity

We are at a transformational point. We have an opportunity to shift Greater Sydney's spatial structure in a way that benefits all existing and future citizens.

If there is a single change - one moment in time - that motivates this approach, it is the planned investment in the Western Sydney Airport. This is a game changer for Greater Sydney and will provide, in around 40 years, tens of thousands of jobs.

Given the magnitude of this change, together with the scale of growth expected in Western Sydney, we need to plan now for a sustainable supporting transport network. As the new economic activity around the Western Sydney Airport starts to emerge and as the success of the Sydney City in the east continues, the Greater Parramatta and the Olympic Peninsula (referred to as CPOP) will develop its role as Greater Sydney's second city region.

Put simply, now is the time to conceive and plan for Greater Sydney maturing into a metropolis of three cities: a metropolis that will collectively create Global Sydney.

'Greater Sydney has the potential to develop its global economic brand from its current professional and corporate services Eastern City focus towards a broader story that also embraces education, innovation, technology, and advanced production industries. The development of the Central City and the emergence of the Western City, catalysed by Western Sydney Airport, gives Greater Sydney a real opportunity to be a diverse and differentiated global economic powerhouse.'

Greg Clark, urbanist and global advisor on cities and investment

This means a shift away from thinking of Greater Sydney as a place anchored by an economically strong single central business district – a monocentric approach – and instead looking at the outstanding assets in three cities and the many local places and connections between these cities – a genuine polycentric approach, as shown in Figure 2-2.

Western Sydney City Deal

The Australian and NSW Governments have agreed to work with local government on the development of a Western Sydney City Deal, a generational deal to deliver almost 100,000 jobs, more housing and better transport for outer Western Sydney in what is the nation's largest ever planning and investment partnership. The Western Sydney City Deal is intended to drive a new economy in the emerging aerotropolis that incorporates the areas immediately around the Western Sydney Airport, and the broader region.

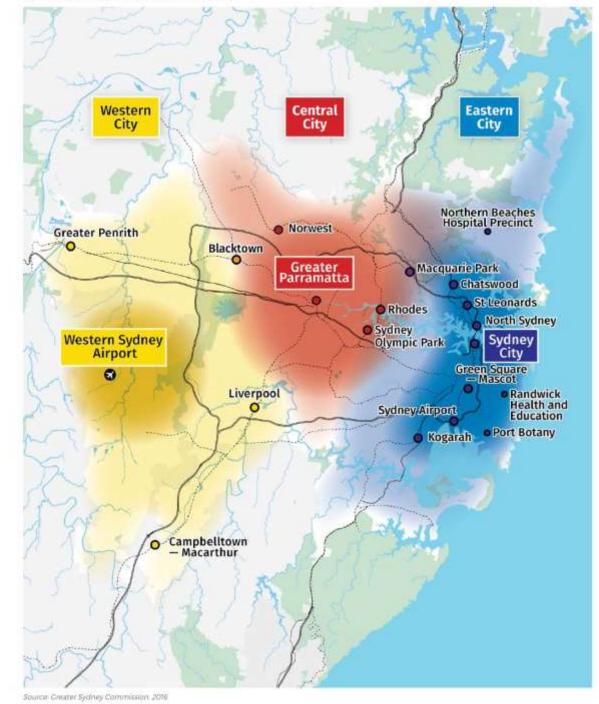
The Western Sydney City Deal pledges to:

- target additional infrastructure investment to increase public transport and reduce traffic congestion, so people can spend more time with their families
- deliver more jobs closer to homes and services, with a focus on youth and Aboriginal training and skills development
- increase housing through better planning and density done well, and streamlining approvals across all three levels of government
- support clean air, green spaces, vibrant arts and cultural initiatives.

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Figure 2-2: A metropolis of three cities: Global Sydney.



SOUTH WEST DISTRICT

The metropolis of three cities acts as a central organising strategy in the planning for Greater Sydney as an eight million-strong metropolis by 2056. It will guide future decision-making and the priorities of government and industry to move to a more productive, sustainable and equitable city.

The established Eastern City is the currently established Sydney City and economic corridors to its north through to Macquarie Park and south through Sydney Airport and Port Botany to Kogarah.

It is an economic engine – especially in the financial, business and professional services and innovation start-up sectors – with a beautiful harbour, sought-after suburbs and a large proportion of knowledge-intensive jobs.

There are many opportunities to enhance the Eastern City, such as the renewal of government-owned land near Sydney City and tackling congestion. Our planning must support and enable the continued growth of the Eastern City's global industries and branding.

The established city contains significant heritage precincts such as The Rocks. Millers Point, Macquarie Street and the Royal Botanic Gardens and the Domain. The Harbour foreshores include significant evidence of Aboriginal occupation and interaction with the landscape.

Of the three cities, the **developing Central City** with GPOP at its heart is anticipated to experience the most significant urban transformation over the next 10 to 15 years. Aboriginal occupation of this area dates back 30,000 years. Historically, Parramatta is an early colonial settlement and significant heritage is a key aspect of its identity. Its central metropolitan location will be one of its greatest advantages. By 2036, it will be one of Greater Sydney's administrative and business centres, and the Westmead health and education precinct will continue to grow and lead best practice in medical and education-related industries. It will be an important area for advanced manufacturing and innovation-driven enterprises. It will offer more opportunities for 21st Century smart jobs, will build its own global brand and, with planned transport investments, will be an easier place to get to and move around in. It is critical that the Central City has strong transport connections and transport capacity to the established Eastern City and the emerging Western City.

By 2056, the Western Sydney Airport will be the focus of the **emerging Western City**. For the first time in over 100 years, this major catalyst will provide the opportunity to change the shape and structure of an extensive area of Greater Sydney.

The emerging Western City will also offer the strategic advantage of creating a greater diversity of jobs and greater social opportunities for the thousands of citizens in the centres of Penrith, Blacktown, Liverpool and Campbelltown-Macarthur.

The economic growth generated by the Western Sydney Airport will offer the opportunity to furnish the emerging Western City with affordable and diverse housing, transport and social infrastructure and jobs needed to create a place people will want to call home.

This new central organising strategy of Greater Sydney as a metropolis of three cities has led to a reconsideration of the approach to centres in A Plan for Growing Sydney. A new hierarchy of centres is proposed, which defines three types of centres: strategic, district and local. Attachment 2

These centres vary in terms of scale and contribution to Creater Sydney's job growth and productivity as well as service provision to local communities. In brief:

- strategic centres, including transport gateways, have the scale, industries and location needed to specifically support a city with smart jobs and the success of the Eastern, Central and Western Citles
- district centres have jobs, facilities and services that support district populations
- local centres have a range of local jobs and services for local catchments.

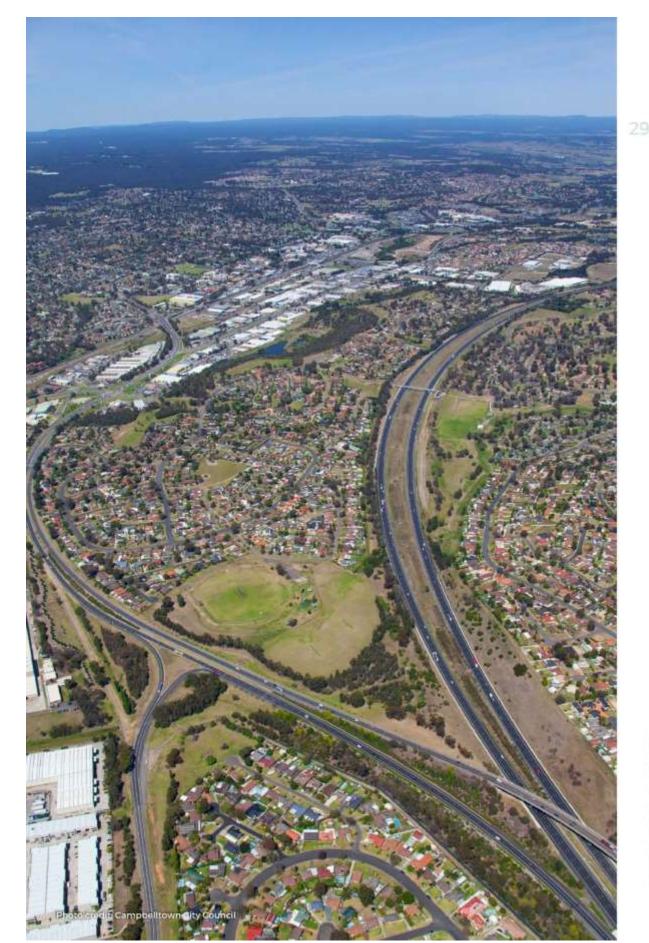
Our vision for Greater Sydney to 2056 represents the economic, social and environmental integration of a metropolis of three cities. It acknowledges that Greater Sydney is more likely to develop in a sustainable manner when it has a strong, productive economy underpinning a fair and liveable lifestyle and allowing a focus on Greater Sydney's natural environment, resilience and efficiency.

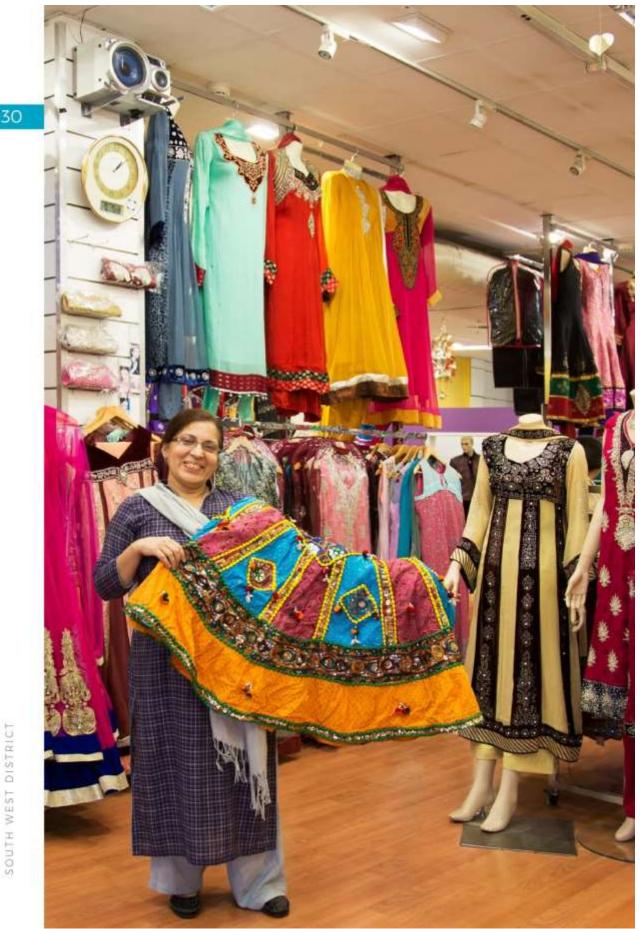
This vision can be delivered through a number of metropolitan priorities, summarised in the table below.

A Productive Sydney	A Liveable Sydney	A Sustainable Sydney	
A growing city	An equitable, polycentric city	A city in its landscape	
A city with smart jobs	A city of housing choice and	An efficient city	
A 30-minute city	diversity	A resilient city	
	A collaborative city		

SOUTH WEST DISTRICT

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SOUTH WEST DISTRICT

3 A Productive City

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"Successful cities grow. Cities that attract jobs, investment, institutions, tourists, will also attract population, both from within their countries and from abroad. Population growth is a hallmark of city success but it brings with it critical choices and challenges that must be addressed."

Greg Clark, urbanist and glabal advisor on cities and investment

The recently announced commitment to pursue a City Deal between the Australian and NSW Governments and in callaboration with local government has the potential to set the foundation for transformation of the South West District, as a major driver of Greater Sydney's emerging Western City, The economic opFportunity created by the Western Sydney Airport will allow the South West District to shift from a place to accommodate homes for Greater Sydney's housing market to an attractor of major economic activity.

The District will be a place of many centres, which are part of the Western City. The main strategic centres of Campbelltown-Macarthur and Liverpool (tagether with Penrith and Blacktown) will support the Western Sydney Airport and the growing population. In the long term the area will develop to the size of Adelaide. This draft District Plan therefore seeks to outline the priorities and actions which can facilitate the attraction of the jobs, health and education facilities, shops and other services and facilities to support a community of that size, with the Western Sydney Airport being the catalyst for much of this change.

Campbelltown-Macarthur and Liverpool will grow as strategic centres of health and education precincts, smart jobs, housing diversity and attractive destinations for visitors. These centres will support and service bath the new and established communities. Investment in transport infrastructure will strengthen and grow the diversity of employment choice.

Ultimately, instead of looking east and competing for resources, the District's centres and its people will now be able to look south west and work together to develop the new Western City of jobs and opportunity around the Airport.

The South West District Productivity Profile

The South West District Productivity Profile describes the District's economy in terms of employment growth, job types and locations, economic output and other data. This informs the way we plan for the District's economy and the type of jobs that the District will need to accommodate in the future.

You can view the full Productivity Profile by visiting **www.greater.sydney**. A summary is provided in section 3.1.

This draft District Plan outlines the proposed priorities and actions to drive the South West District's productive economy. It draws an A Plan for Growing Sydney's Goal 1, which seeks to grow a competitive economy with world-class services and transport, as well as the priorities from Our vision – Towards our Greater Sydney 2056.

A number of metropolitan aspirations will be instrumental to the growth of the South West District's economy

 A metropolis of three cities will drive the development of the Western City around the Western Sydney Airport, a once-in-a-lifetime opportunity for Greater Sydney and the South West District to significantly influence land use patterns in the surrounding areas. Associated investment will drive jobs growth, including knowledge-intensive jobs, and investment that will significantly contribute to the District's economic growth.

This builds on Direction 1.5 of A Plan for Growing Sydney, and the recent Australian and NSW Government announcement to pursue a Western Sydney City Deal, the \$3.6 billion investment in road infrastructure from the Australian and NSW Governments, and the NSW Government's ongoing planning for transport corridors to support Western Sydney Airport and surrounding areas. DISTRICT

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Growing smart jobs in strategic centres and world-class health and education super precincts by prioritising land use planning to encourage investment in Liverpool and Campbelltown-Macarthur, which contain established health and education super precincts, retail centres and civic and government facilities. This builds on Direction 1.10 of A Plan for Growing Sydney, specifically Action 1.10.2.

3.1 The South West District - an emerging economy

The South West District contains a diversity of employment activities including major health and education super precincts at Liverpool and Campbelltown-Macarthur, strategic industrial precincts and significant agricultural activities. Between 2011 and 2015, its economy grew by just under 9% (compared to 13% for Greater Sydney), representing an increase in gross value add (GVA) of approximately \$1.8 billion.

The District is home to approximately 715,000 people, almost 16% of Greater Sydney's population, and has grown by more than 189,000 people in the last 20 years (Table 3-1). It contains over 237,000 jobs, which represents approximately 10% of all jobs across Greater Sydney, up from 158,000 jobs in 1996. Despite this the South West District's share of jobs rose slowly from 9% to 10% between 1996 and 2016.

Over the long-term, the District's land release areas have the potential to attract a population close to the current total of the whole District, With this growing population and the development of the Western Sydney Alrport, the District has the potential to be transformed into a nationally significant health, education, trade, logistics, advanced manufacturing and science hub.



	Population			Jobs		
	1996	2016 Projection	1996-2016 % Growth	1996	2016 Projection	1996-2016 % Growth
South West District	525,950	715,200	36%	158.000	237,100	50%
Greater Sydney	3,553,100	4,682,000	32%	1,722,700	2,439,800	4296

Table 3-1: South West District: Historical population and employment growth (1996-2016)

Source: (Population) Department of Planning and Environment. 2016 NSW State and Local Government Area Population and Household Projection and Implied Dwelling Requirements 2016 to 2035: (Jobs) Transport Performance and Analytics (TPA) (formerly known as Bureau of Transport Statistics). Transport for KSW: Greater Sydney Employment Porecasts. 2011 to 2047 (2016 Release)

Economic activity in the District started in the very early years of European settlement of NSW where the Camden area was the original 'cowpastures', hence Cowpasture Road. Over time, centres such as Liverpool and Campbelltown were established and since the middle of the 20th Century, significant urban development, including employment and urban services areas, has occurred.

With nearly half of the long-term potential development of the District still to come, including the transformative Western Sydney Airport, the District's economy is still very much emerging, and the locations of many new centres and commercial areas are yet to be resolved.

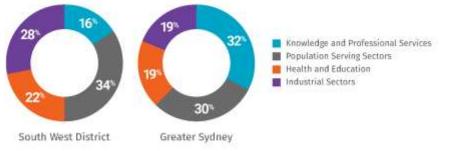
Investment in new infrastructure, such as roads, public transport and utilities is core to the District's prosperity. The location of this infrastructure and the timeliness of delivery will significantly influence the potential of this emerging economy.

3.1.1 Current economic profile and recent growth

The District's jobs are categorised as knowledge-intensive and professional jobs, health and education jobs, population serving jobs and industrial jobs. This categorisation helps us to understand why different types of industries locate in different parts of Greater Sydney.

Our analysis shows that the District contains a higher proportion of population-serving, health and education and industrial jobs compared to the Greater Sydney average and a lower proportion of knowledge-intensive jobs (Figure 3-1). In the last 20 years the most significant employment growth has been in health and education (86%), highlighting the role of this sector and its future potential. In terms of absolute employment, the greatest increase in jobs was in the population-serving sector which reflects the population growth that has occurred in the South West District.

Figure 3-1: Employment profile by sector in South West District vs Greater Sydney (2016)



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Source: Transport Performance and Analytics (TPA) (formedy known as Bureau of Transport Statistics); Transport for NSW, Greater Sydney Employment Forecasts. 2011 to 2041 (2016 Release)

Table 3-2: Jobs by sector (1996 and 2016)

	Total	Knowledge and Professional Services	Population- serving sectors	Health and Education	Industrial
1996 (Census)	158,000	23,500	52.200	28,300	54,100
2016 (Projection)	237,200	37,800	79.600	52,700	67,100
Change	79,200	14,300	27,400	24,400	13,000
% growth 1996-2016	50	61	52	86	24

Source: (Jobs) Transport Performance and Analytics (TRA) (formerly known as Bureau of Transport Statistica). Transport for NSW, Greater Sydney Employment Forecasts. 2011 to 2041 (2016 Release)

The South West District benefits from an existing concentration of health and education institutions and strategically significant employment and urban services land. Figure 3-2 illustrates the economic contribution of these assets and shows the spatial distribution of economic activity in terms of CVA, which measures the value of goods and services in a particular area.

The District's strongest areas of economic activity include Liverpool, Campbelltown-Macarthur and the employment and urban services precinct at Wetherill Park. Growing employment areas around the Western Sydney Airport will make a significant contribution to Greater Sydney's economy over the next 20 to 40 years.



Attachment 2

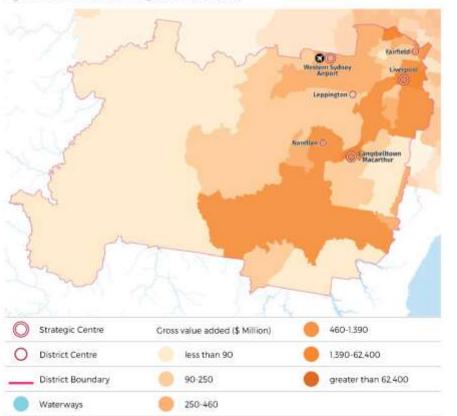


Figure 3-2: South West District's gross value add (2015)

Source. Unpublished data derived from Australian Cities Accounts 2014-15

Figure 3-3 shows areas of high labour productivity, a measure that indicates the areas that generate higher economic value per hour worked. This helps us to understand important economic places such as Wetherill Park.

Looking forward, employment and urban services land will be crucial for employment and economic activity. Concentrations around Wetherill Park, Prestons, Smeaton Grange, Ingleburn and Minto are supported by major road infrastructure including the M31, M4, M5 and M7 Motorways, which makes these areas highly accessible and attractive to businesses and provides potential for job growth.

As well as employment and urban services areas, the South West District's centres have distinct employment profiles. We classify Liverpool, Campbelltown-Macarthur and Western Sydney Airport as strategic centres, and Fairfield, Leppington and Narellan as district centres, reflecting their current and future roles (see Section 3.4 for more detail on centre classifications).

The District's agricultural clusters include irrigated horticulture (vegetables and herbs) in Warragamba/Silverdale, multi-use irrigated horticulture in Cobbitty and Camden and poultry sheds across Campbelltown and Wollondilly local government areas. The District also produces flowers and dairy products, with one of the southern hemisphere's largest dairies operating at Bringelly. The agriculture sector employs 2,000 people – only 1% of the District's employment – yet makes an important contribution to Greater Sydney's food supply and accommodates nearly 30% of Greater Sydney's jobs in the agriculture, forestry and fishing sector.

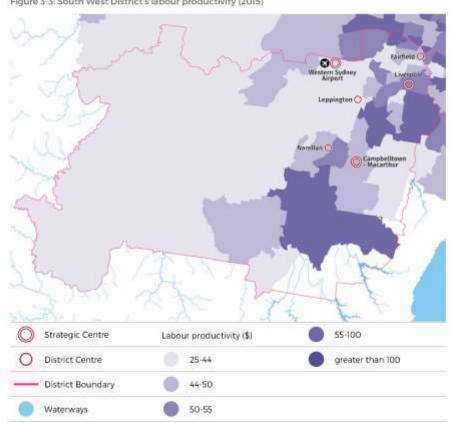


Figure 3-3: South West District's labour productivity (2015)

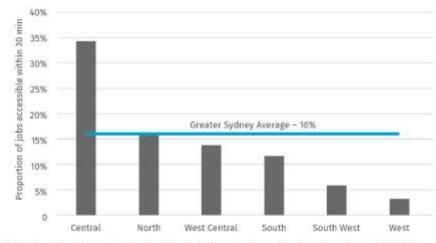
Source: Unpublished data derived from Australian Cities Accounts 2014-15.

3.1.2 Access to jobs

Our research shows that during the morning peak, approximately 6% of Creater Sydney's jobs can be accessed by South West District residents within 30 minutes by public transport or private vehicle. This is lower than the 16% average across Greater Sydney.

This means South West District residents face longer commute times in order to access a greater diversity of jobs.





Source: Transport Performance and Analytics (TPA) (formerly known as Bureau of Transport Statistics). Transport for NSW. Strategic Travel Model (STM) outputs, 2016

This level of access creates barriers to jobs and business investment, as well as social activities, education and other services. In the South West District, some areas of employment are not well connected to others or to where people live. For some people, the cost of travel inhibits their ability to access education and work.

The District's dispersed nature of job locations means more people drive to work than the Greater Sydney average and only 10% of workers travel to work via public transport compared to 20% across Greater Sydney. This reflects the generally limited public transport options across the District.

Lower employment density, a less diversified District economy and lower access to employment centres have a cumulative impact on economic development in the District.

3.1.3 Economic opportunities

Notwithstanding these challenges, the South West District is increasingly well placed to take advantage of a number of important economic opportunities, assets and investments to build its economic strength.

Western Sydney Airport and supporting

infrastructure – Infrastructure such as the planned \$3.6 billion road upgrades to several roads in the area including The Northern Road and Bringelly Road, the new M12 Motorway, and in the long term, the South West Rail Link extension and the Outer Sydney Orbital - will offer unparalleled opportunities for economic growth. This in turn will support the 24-hour airport and connect existing and proposed freight and passenger corridors within the District. These changes have the potential to grow the national and international tourism and export markets and better connect the District to regional cities such as Newcastle, Wollongong and Canberra.

Western Sydney Priority Growth Area - The new Western Sydney Priority Growth Area will provide local people with better access to jobs within and around the Western Sydney Airport, as well as infrastructure and services for local residents. This area will be the focus of the new Western Sydney City Deal.

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Greater Macarthur Priority Growth Area -

The Greater Macarthur Priority Growth Area will focus on the Campbelltown-Macarthur strategic centre and will coordinate land use and infrastructure planning for urban renewal around seven train station precincts from Glenfield to Macarthur. It also includes new land release areas of Menangle Park, Mount Gilead and a new town at Wilton.

South West Priority Growth Area – The South West Priority Crowth Area will be planned with a range of centres, including a new district centre at Leppington, to provide economic opportunities and better access to jobs for residential communities.

Strategic centres – Liverpool and Campbelitown-Macarthur strategic centres include large concentrations of employment and major health and education facilities, civic and justice facilities, heritage assets and access to a range of parks and recreational facilities. These centres will continue to be a major focus for the growth of population driven services, advanced manufacturing and knowledge-

intensive jobs.

New communities - New communities in priority growth areas have the potential to accommodate a planned population close to 600,000 people over the next 20 to 40 years this is more than one and a half times the size of Canberra. These new communities will create demand for commercial development including new centres, employment and services lands. Natural and multicultural assets - These include national parks, Aboriginal sites, rural landscapes, the local koala population, local community events like Cabramatta's Moon Festival, venues like the Campbelltown Arts Centre, and towns and villages. Local multicultural areas like the hub of sari shops in Liverpool could contribute to a thriving visitor economy for both domestic and international visitors.

Collectively, these assets will drive economic activity in the South West District. The continued growth of Greater Parramatta and better transport connections between Parramatta, Liverpool and Campbelltown-Macarthur would better link residents in the South West to centres with a high concentration of knowledge-intensive employment.

3.1.4 District priorities

This Chapter outlines the productivity priorities and actions for the South West District.

The priorities are presented in two ways. Firstly, each heading outlines a priority area, and we provide context and detail to expand on the outcomes sought. Some headings cover factual issues only, these are not included in the list below.

Secondly, within the broad priority areas there are, in many cases, more detailed priorities. We identify the specific purpose of these priorities in each case by detailing how they relate to strategic planning and planning proposals.



Attachment

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The priorities should be considered in strategic planning activities and planning proposals as appropriate.

The full list of productivity priorities covered in this section are outlined below.

Creating a framework to deliver the Western City

- the Western Sydney City Deal Governance
- · elements of the Western City
- identifying alignments and preserving regionally significant east-west and north-south rail and road corridor for the Western City
- identify economic development priorities for the Western City
- planning for 21st Century aerotropolis with 21st Century amenity
 - create high quality urban amenity across the Western City
- creating a polycentric city of jobs and opportunity around the Western Sydney Airport

integrating land use and transport planning to drive economic activity

- improving District significant eastwest and north-south connectivity
- utilise the natural attributes of the District as economic building blocks
- integrating land use and transport planning for greenfield areas

planning for job target ranges for strategic and district centres

plan for the growth of centres

growing and diversifying the economic opportunities in the District's strategic centres

- growing the diversity, level and depth of jobs and the vibrancy of Liverpool strategic centre
 - manage growth and change in strategic and district centres, and as relevant, local centres
- growing the diversity, level and depth of jobs and the vibrancy of Campbelltown-Macarthur strategic centre

growing jobs in the health and education

sectors

- foster 'Smart Liverpool' a city of business innovation and health and education excellence
- promote and grow Campbelitown the emerging health and medical university city
- support the growth of tertiary education opportunities
- encourage additional private hospital development in the strategic, district and local centres

coordinating infrastructure planning with population growth - enhancing local access

- facilitate local employment in land release and urban renewal areas
- supporting the growth of retail floor space
 - prioritise the provision of retail floor space in centres
- facilitating jobs growth in Wilton New Town in line with population growth

strengthening the diversity of employment choice

- provide for efficient movement of freight to and within the District with least impact on residents' amenity
- retain and grow the agricultural, horticultural and rural industry
- facilitate visitor destination potential of the South West District
- protect and manage employment and urban services land – a pipeline of employment
 - protect and support employment and urban services land.

Attachment

3.2 Creating a framework to deliver the Western City

Our vision – Towards our Greater Sydney 2056 introduces the emerging Western City, focusing on the proposed Western Sydney Airport. The Western City will sit across the West, South West and West Central Districts and include the strategic centres of Penrith, Liverpool, Campbelltown-Macarthur and Blacktown. This recognises the importance of the Western Sydney Airport as a catalyst that can transform the area over the next 40 years and enhances Sydney's gateway capacity in line with Direction 1.5 of A Plan for Growing Sydney.

Our vision is that by 2056, Western City will be transformed into:

- a trade, logistics, advanced manufacturing, tourism, health and science hub
- a city with well-designed, highly functioning and vibrant centres and local places
- a protected and valued parkland city.

To deliver on this vision, we will need coordination across three tiers of government and engagement with the community, and will need to provide clear direction for the private sector, which will, in the main, develop and invest in the area.

This collaborative approach will need to recognise and capitalise on the transformative opportunities that can collectively drive the delivery of the Western City.

3.2.1 The Western Sydney City Deal - governance

In October 2016, the Australian and NSW Governments agreed to work together with local government to deliver an agreed Western Sydney City Deal by mid-2017. City Deals will improve the lives of people through better transport, improved housing supply and affordability, better access to jobs and improved environmental outcomes. Australia's growth as a knowledge-based economy, and the prosperity this offers, goes hand in hand with the growth of our cities and the regions surrounding them. To achieve success in the 21st Century, Western Sydney, and other regions across Australia, need to be productive and accessible, as well as liveable and sustainable, with a clear focus on meeting the needs of people.

City Deals will formalise the partnership across the three levels of government and define priorities, actions, timeframes and accountabilities for achieving joint goals. City Deals will improve collaboration between all levels of government by coordinating governance, strategic planning, investment and reform. The establishment of City Deals will require all levels of government to bring reforms, planning or asset contributions, and investments to support improved outcomes in our cities.

The Western Sydney City Deal will bring the Australian. NSW and local governments together with a common purpose: to have a measurable impact on the productivity. liveability and sustainability of the area.

The City Deal will complement our planning decisions to 2036 and influences our vision to 2056 to:

- Improve connectivity in the Western City and with other areas of Greater Sydney through investment in road and rail infrastructure
- attract investment to stimulate the growth of knowledge-intensive jobs and jobs in industries such as freight, logistics and tourism, and to drive better social and economic outcomes for communities, particularly vulnerable groups
- help to ensure the supply and types of housing meet demand and are affordable
- maintain or improve environmental outcomes through biodiversity conservation.

The City Deal will include clear roles for each level of government to provide funding, undertake policy and regulatory reforms, contribute land, make land use planning changes and provide other support to achieve the desired economic, social and environmental objectives. The City Deal will also include clear ongoing governance arrangements.

We know that by 2036, the population of the emerging Western City west of the M7 Motorway will be more than one million, growing to 1.5 million by 2056. The City Deal is a generational deal with a commitment to deliver almost 100,000 jobs and better transport for outer Western Sydney – the nation's largest ever planning and investment partnership for the District compared to Greater Sydney.

If we can broaden Greater Sydney's global economic footprint, particularly from Parramatta to the west, and leverage the investment in the Western Sydney Airport, we can help to facilitate a strong and diverse base of hew jobs in the area, connected to a workforce located within 30-minutes of employment opportunities.

It is for this reason that we view the Western Sydney Airport as an intergenerational game changer for Greater Sydney and particularly Western Sydney. It could, by the middle of the century, provide a globally significant agglomeration of knowledge jobs in an Airport city, or Aerotropolis, and transform the centres of Penrith, Blacktown, Liverpool and Campbelltown-Macarthur.



The Australian and NSW Covernments will work with Blue Mountains, Camden, Campbelltown, Fairfield, Hawkesbury, Liverpool, Penrith and Wollondilly Councils to deliver the Western Sydney City Deal. The City Deal agreement will be in place by mid-2017.

3.2.2 Elements of the Western City

The Western City encompasses a number of important elements:

- the Western Sydney Airport site (1,780 hectares)
- the care of the Western Sydney Airport Aerotropolis, which is included in the land defined by the Western Sydney Priority Growth Area.
- the strategic centres of Penrith, Blacktown, Liverpool and Campbelltown-Macarthur
- the full extent of the urban areas of Penrith, Camden, Fairfield, Liverpool, Campbelltown and Blacktown Local Covernment Areas.

Western Sydney Airport

The Australian Government forecasts that about five million people will use the Airport in its first year of operation in the mid-2020s, with annual passengers projected to increase to about 37 million by 2050. This is about the same number of annual passengers using Sydney Airport today. Ultimately, the Western Sydney Airport will have the capacity to cater to more than 80 million passengers per year.

The Airport and its surrounds will be a substantial source of economic and employment activity, particularly for the West District and South West District. We expect to





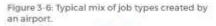
Source: Oreater Sydiney Commission, 2016

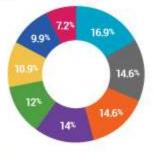
see a range of employment types, including a variety of professional services and high-tech industries such as logistics, trade, aerospace and defence industries, advanced manufacturing and tourism.

The Australian Government released the final Western Sydney Airport Environmental Impact Assessment in September 2016. The Assessment shows that construction and operation of the Airport are expected to generate significant economic and employment effects which will grow as passenger demand increases.

Construction of Stage I development is expected to create employment opportunities and value add for the economy.

- about 3,180 full time equivalent jobs during the peak construction activity of which approximately 84% would be in Western Sydney
- \$2.3 billion in value-add across greater Sydney during the construction period with approximately \$1.9 billion or 83% of the value-add being created in Western Sydney.





- Office services and administrative support.
- 📕 Technicians and trade
- Community and personal service
- Professionals
- Machinery operators and drivers
- 📒 Sales and retail
- Manageriał
- Labourers

Source Western Sydney Airport EIS fact sheet

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During the operation of Stage 1, the airport is expected to continue its role as a substantial source of economic and employment opportunities in the Western City. The operation of Stage 1 in 2031, for example, would:

- create about 8.730 full time direct on-site jobs
- potentially create a further 4,440 full-time on-site jobs within business parks on the site
- generate about \$77 million in value add for Western Sydney
- generate about \$145 million in value add for the rest of Greater Sydney
- drive growth in business profits, productivity and household income.

The Western Sydney Airport will also drive employment in tourism and related industries and support the growth of tourism, accommodation, and services in the surrounding centres.

The core Western Sydney Airport Aerotropolis

The land surrounding the Western Sydney Airport, defined as the Western Sydney Priority Growth Area is the core of the Western Sydney Airport Aerotropolis. It will be focused on agglomerating world-class knowledge intensive airport-related industries. Aerotropolis developments around the world have transformed regions like Western Sydney by bringing together high quality jobs and opportunities, while also achieving industry leading environmental outcomes.

Five recent global examples of aerotropolis developments show the size of the assets and benefits (Table 3-3).

Key learnings from these global exemplars and from work already undertaken by the Department of Planning and Environment. Liverpool City Council and Penrith City Council will inform the deliberations of the Western Sydney City Deal. This includes land use and infrastructure planning for the area that will guide new infrastructure investment, identify locations for new homes and jobs close to transport, and the coordination of services in the area.

The strategic centres

Four established strategic centres - Liverpool, Campbelitown-Macarthur, Penrith and Blacktown-- will provide Western City's foundational urban centres. These centres will provide the supporting urban infrastructure, housing and jobs to enable the Western City's growth. They will also be the places where people can access services and lifestyle benefits such as entertainment and recreation areas.

2015	Incheon (Seoul)	Dallas Fort Worth	Amsterdam	Tokyo Haneda	Tokyo Narita International
Traffic (million passengers/year)	49	64	62	75	37
Traffic movements	300,200	682,261	450,679	379,670	232,182
Cargo (tonnes/annum)	2,600,000	770,000	1,620,000	900,000	2,000,000
Airport area (hectares)	5,116	7,200	2,787	1250	1,400
Added value (per annum, USD)	\$10bn	\$17bn	\$12bn	\$18.5bn	
Airport jobs	60,000	55,000	60,000	38,000	74,000
Related jobs	200,000	157,000	120,000	158,000	81,000

Table 3-3: Comparative data for three aerotropoli

Source: Extract from NACO Aviation/Urban Planners 'draft 'report (October 2016) for NSW Government

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3.2.3 Identifying alignments and preserving regionally significant eastwest and north-south rail and road corridors for the Western City

The successful delivery of the Western City will require improved north-south and eastwest transport connections and the resolution of land use planning for the Western Sydney Priority Growth Area, as identified in A Plan for Growing Sydney.

The Australian and NSW Governments are funding a 10-year, \$3.6 billion road investment program known as the Western Sydney Infrastructure Plan to support integrated transport in the region and capitalise on the Western Sydney Airport. The program includes:

- an upgrade for The Northern Road to a minimum of four lanes from Narellan to Jamison Road, Penrith
- a new east west M12 Motorway to Western Sydney Airport between the M7 Motorway and The Northern Road
- an upgrade for Bringelly Road to a minimum of four lanes between The Northern Road and Camden Valley Way
- the Werrington Arterial Road, which will be built by upgrading Kent Road and Cipps Street to four lanes between the Greater Western Highway and the M4 Motorway and providing ramps to the M4 Motorway
- an upgrade of the intersections of Ross Street and the Great Western Highway
- a \$200 million package for local road upgrades to be delivered over 10 years.

As identified in A Plan for Growing Sydney, Transport for NSW has also preserved, or is working to preserve, corridors in the area:

 The South West Rail Link extension, which will provide a north south connection through the South West Priority Growth Area and the Western Sydney Employment Area, including the proposed Western Sydney Airport. The corridor connects Leppington Station to Bringelly and then heads north to the TI Western Line near St Marys and south to Narellan. The NSW Government is also considering the possibility of extending the corridor south to the existing T2 Inner West and Southern Highlands Line

Preferred corridor for the Outer Sydney

Orbital, which will provide a north south connection for a future motorway and freight rail line. The Outer Sydney Orbital will provide better connections within Greater Sydney and to regional NSW and Newcastle, Wollongong and Canberra.

The NSW Government is working to identify the Western Sydney Freight Line and Intermodal terminal, identified in the NSW Freight and Ports Strategy as a critical freight link facilitating movements and logistics within Creater Sydney and to regional markets.

In addition, recognising the important role of rail transport in supporting both the growth of the Western City and the Western Sydney Airport, the Australian and NSW Governments are undertaking a *Western Sydney Rail Needs Scoping Study* to examine the passenger rail transport needs of Western Sydney and the Airport. A Discussion Paper released in September 2016;

- acknowledges the level of population and employment growth forecast for Western Sydney and associated transport challenges associated
- provides an overview of the transport projects underway in Western Sydney
- examines the rail demand in Western Sydney
- provides an overview of the initial set of rail options identified to service Western Sydney and the Western Sydney Airport.

The Western Sydney Rail Needs Scoping Study will inform the final South West District Plan, the development of the Future Transport Strategy and the review of A Plan for Crowing Sydney.

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Sydney Metro West

The NSW Covernment has announced a new underground metro railway line will be built between Parramatta City and Sydney City to help cater for Sydney's growth.

Sydney Metro West will provide a direct connection between Parramatta City and Sydney City, linking communities not previously serviced by rail as well as supporting growth between the two major centres.

The Sydney Metro West project will focus on a corridor between the Parramatta River and existing T1 Western Line, because of the greater potential to transform communities, create new ones and link them using a new state-of the art public transport system.

Beyond this corridor, opportunities to extend the line east and west will also be considered.

3.2.4 Identify economic development priorities for the Western City

With the emergence of Greater Sydney as a metropolis of three cities, the Department of Industry, in collaboration with the Commission, councils, the investment community and other stakeholders will prepare and implement economic development strategies for each of the three cities.

This is a new approach for Greater Sydney – it leverages the skills of government to lead the agglomeration of jobs and industry so that we can work across public and private organisations to achieve the ambitions of *Our* vision – Towards our Greater Sydney 2056 and the aspirations of this draft District Plan.

The three economic development strategies, while similar, will reflect our aspirations for the Western, Central and Eastern Cities. They will work across sectors and will include, where relevant:

- specific planning for health and education super precincts
- the goals of Growing the First Economy of NSW – a framework for Aboriginal economic prosperity, developed in conjunction with Aboriginal Affairs

- advanced manufacturing and manufacturing clusters
- tourism and services economy
- aerospace and defence industries
- other specific industries as required.

The economic development strategies will also draw on the work of Jobs for NSW as detailed in their Jobs for the Future report. This report outlines the aspirations for future employment growth in NSW and how private and public sectors can contribute to achieving it.

Jobs for NSW

Jobs for NSW is a private sector-led NSW Government-backed initiative which was established by the NSW Premier and NSW Minister for Industry in 2015 to drive investment and facilitate jobs growth across NSW.

The body has been tasked with overseeing the \$190 million Jobs for NSW Fund and assisting the NSW Government in delivering on its commitment to create 150,000 new jobs across NSW by March 2019.

Jobs for NSW is focused on driving growth in industries and sectors where NSW has or could have a global competitive advantage, including start-ups and fast-growth small-tomedium enterprises in target industries such as tourism, goods exports and advanced manufacturing, with the overall aim of growing the NSW economy.

Jobs for NSW is also providing grants and partnerships to guide emerging businesses.



Action P2: Develop and implement an economic development strategy for the Western City

The Department of Industry, in collaboration with the Commission, Jobs for NSW, Aboriginal Affairs and other State agencies and local councils as relevant, will develop an economic development strategy for the Western City.

Attachment

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3.2.5 Planning for a 21st Century aerotropolis with 21st Century amenity

Design excellence will be a critical requirement for the Western Sydney Priority Growth Area, a focus of much of the investment for the aerotropolis. Delivery on this will require a number of considerations, including:

- taking advantage of the natural attributes of the area including utilising South Creek as a central organising design element
- considering how the edges of major transport infrastructure is treated, specifically allowing for tree planting and options for activity to address road corridors.
- creating 'urban' places that focus on people.



Productivity Priority 1: Create high quality urban amenity across the Western City

The economic prosperity of the District will be influenced by the quality of the public realm, and urban design of centres. commercial areas and infrastructure. To create a strong sense of place, the relevant planning authorities must establish an urban design framework for the development of centres, commercial areas and transport infrastructure.

3.2.6 Creating a polycentric city of jobs and opportunity around the Western Sydney Airport

The vision for the Western City and an aerotropolis needs to recognise that the Western Sydney and South West Priority Growth Areas will, over the long term, attract a population of close to 600,000 people.

A Plan for Growing Sydney identifies an employment corridor from Leppington to the Western Sydney Airport along the alignment of the proposed extension of the South West Rall Link and the Bringelly and Northern Roads - the Bringelly Road Enterprise Corridor. In the long term, this corridor could be connected to the Moorebank Intermodal Terminal and Campbelltown Road via upgrades and extensions of Cambridge Avenue, Clenfield.

Direction 1.4 of A Plan for Growing Sydney emphasises the need for this corridor to have a "flexible and innovative regulatory environment" to attract commercial activities that can take advantage of the area's transport access, proximity to the Airport and the Leppington district centre and the substantial new population in the South West Priority Crowth Area.

This requires us to better understand the role and number of centres required to support the anticipated population and the aerotropolis, including Leppington. Further work will be undertaken to agree to the role and staging of the Leppington town centre, the Bringelly Road Enterprise Corridor and the potential role and function of other centres in the context of the emerging Western City.

To deliver on this priority and provide the community with reasonable access to goods, services and local employment, district and local strategic planning needs to:

- identify a network of centres to serve the District
- develop enabling planning controls for each centre, which allow for the needs of the community to be accommodated in the short, medium and long term
- develop a flexible innovative regulatory environment to enable a range of commercial activities, including an allowance for the Bringelly Road Enterprise Corridor to evolve over time.



Action P3: Develop and implement a centres framework for the District

To accommodate the retail and commercial needs of the Western Sydney and South West Priority Growth Areas, the Commission together with local councils, will develop a centres framework which covers the two Priority Growth Areas. It will consider:

- retail supply demand, into the long term
- providing opportunities for commercial activities into the long term
- tertiary education and health needs
- public transport and major road corridors
- the potential to create centres that interact with natural features such as South Creek
- 'corridors of opportunity' through the location of multiple centres along major transport corridors, to enhance the community's accessibility to goods, services and jobs
- · the staging of centres.

Action P4: Review the role and staging of the Leppington district centre in the context of the Western Sydney Airport and Western Sydney City Deal

Since the original identification of Leppington as a centre in growth area planning for the District, there has been a range of significant changes in some of the planning assumptions for the area including the commitment to the Western Sydney Airport and significantly higher residential development yields. To best plan for the centre and respond to these changed planning assumptions it is proposed that:

- In the short term, an initial vision and outcomes will be developed between Camden Council, the Commission and Department of Planning and Environment, in consultation with Liverpool and Campbelltown Councils.
- These outcomes are to then be used to guide the decision making for planning proposals in and around the centre.
- In the longer term, the planning for the centre is to be guided by the District wide centres framework (see Action P3).

ANSW NSW

Action P5: Develop and implement a Framework for the Enterprise corridor

As an integral part of the planning for both the Western Sydney and South West Priority Growth Areas the Department of Planning and Environment will investigate the Bringelly Road Enterprise Corridor in consultation with the Commission and Camden Council, Liverpool City Council, and Campbelltown City Council. The investigation will include:

- the role and function of the Enterprise Corridor and how it could evolve over time
- the extent of the corridor and what centres should be located along it
- options and strategies for Leppington including the role and staging of the centre
- a review of existing employment and urban services land and to make sure future supply can help to retain jobs in the District in the short term and attract and grow smart jobs in the mid to long term.

3.3 Integrating land use and transport planning to drive economic activity

The scale of development in both new land release areas and urban renewal precincts in the South West District includes:

- The Western Sydney Priority Growth Area: The Department of Planning and Environment and local councils have undertaken studies and investigations to inform a land use and infrastructure plan for the area, which has the potential to yield approximately 100,000 dwellings over the long term.
- The South West Priority Growth Area. The Department of Planning and Environment, with Input from the local councils is preparing a land use and infrastructure plan for the area, which has the potential to yield approximately 115,000 dwellings over the long term.
- Greater Macarthur Priority Growth Area including:
 - the Glenfield to Macarthur Urban Renewal Corridor for which the Department of Planning and Environment has prepared a draft urban renewal plan that identifies the potential for 15,000 dwellings
 - Wilton New Town, which is a declared growth area of approximately 16,000 dwellings with a new town centre
 - Mount Cilead and Menangle Park where development is anticipated to start in 2018
 - West Appin, an urban investigation area identified as having urban development potential for the long term when needed
- Liverpool and Campbelltown councils are preparing strategic plans for the Liverpool and Campbelltown-Macarthur strategic centres
- Infill development and urban renewal is ongoing in the Fairfield Local Government Area,

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To deliver on the goals and directions of A Plan for Growing Sydney and the aspirations of Our vision – Towards our Greater Sydney 2056 the interface and integration of planning between these different geographic areas is critical, particularly in terms of transport infrastructure.

Transport infrastructure investment can increase the desirability of particular locations for different land uses and redirect where households and businesses choose to locate. Since the location of some jobs (particularly knowledge-intensive jobs and industrial/freight and logistics activity) is heavily influenced by accessibility, we can use transport investments to create the investment and business environment to increase the number of jobs. In many cases, these different types of activities can be co-located.

In addition to the integration of land use and transport planning, the scale of the District's new land release areas affords an opportunity to integrate the land use network with the natural systems of the District in a way that both protects and enhances the environment and creates a strong sense of place. This is also an important productivity consideration in that the amenity of an area can influence its attractiveness for investment and business.

Further, this spatial planning must work alongside skills development of the local workforce so that a skilled workforce is not travelling from across the rest of Creater Sydney to knowledge-intensive jobs in the South West District.

Within this context, this draft District Plan aims to deliver integrated planning outcomes that:

- deliver east-west and north-south transport connections and an effective public transport system
- zone land for jobs
- improve access for the people with the skills required to grow the District's economic activity
- deliver a high quality urban environment
- bring these elements together in an integrated land use and transport framework.



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3.3.1 Improving District significant east-west and north-south connectivity

Greater Sydney's evolution to a metropolis of three cities will provide better access to hubs of major economic activity. Increasing the range of jobs and other opportunities that people can access within 30 minutes is a metropolitan aspiration as outlined in *Our vision - Towards our Greater Sydney 2056.* This requires better transport connections and stronger economic and employment centres.

With the significant employment and population growth planned for the District, timely provision of enabling transport infrastructure is a critical consideration for connecting people to jobs and places at the metropolitan and district levels.

To deliver increased accessibility and better transport connections our planning needs to:

- remove congestion and increase the capacity of the existing transport network
- Increase the frequency of public transport services
- deliver new or improved bus routes
- invest in new transport infrastructure
- encourage walking and cycling opportunities
- plan for growth areas.

Access to the site of the Western Sydney Airport and within the Western Sydney Priority Growth Area is currently limited and will need to be substantially enhanced, as will access to the District's strategic centres as they grow as important hubs of employment and economic activity.

Currently, there is a lack of east-west and north-south connectivity within the South West District. Some of the District's road corridors such as Narellan Road and the M5, M7 and M31 Hume Motorway corridors experience major capacity constraints, resulting in increased journey time, unreliability and impact on liveability. Of these, the M31 Hume Motorway connects Greater Sydney to regional NSW, Canberra and Melbourne. It carries both light and heavy vehicles through the District and also serves a local function allowing connections between Liverpool and Campbelltown-Macarthur. Narellan Road, one of the few east-west connections within the District, is regularly congested with significant delays currently experienced during the morning and afternoon/ evening peak periods and weekends.

With the development of the Moorebank Intermodal Terminal and freight and logistics movements associated with the Western Sydney Airport, the South West District will become increasingly important in terms of moving people and goods.

The provision of additional east-west and north-south connections is necessary to relieve congestion and improve connectivity to serve the existing and new communities within the District.

Section 3.2.3 outlines regionally significant considerations and opportunities to enhance east-west and north-south transport connections.

Attachment

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Action P6: Identify transport improvements which deliver east west and north south connectivity

Transport for NSW is planning for improved east-west and north-south connections in the District to enable the efficient movement of people and services. In terms of districtsignificant access, Transport for NSW will also investigate:

- 30-minute access from Liverpool to Greater Sydney's Eastern City, Central City and within the Western City
- 30-minute access from Liverpool. Campbelltown, Camden/Narellan (and Penrith) to Western Sydney Airport
- Increased capacity on the Hume Motorway between Picton Road and Narellan Road to facilitate 30 minute access to Campbelltown-Macarthur and Liverpool
- Improved public transport and freight connectivity to Port Kembla and the Illawarra
- an Appin Road upgrade, including Appin bypass, to service Mount Cilead and a large part of the South West District's future population and improved connectivity with the Illawarra.
- the longer-term transport options that can improve the amenity of Picton.



Action P7: Build the Badgally transport connection, including an active transport link

As the only direct east west connection within the District between Camden Valley Way and Picton Road, Narellan Road is regularly congested with delays during both morning and afternoon/evening peaks and on weekends.

Transport for NSW will investigate the Badgally Road extension across the railway line, including walking and cycling opportunities, to link Oran Park, Harrington Grove, Gregory Hills, Catherine Field and Gledswood Hills into Campbelltown-Macarthur city centre with identified potential for future connectivity to the Georges River Parkway reservation.



Action P8: Prioritise the planning of Spring Farm Parkway

The future release and rezoning of the Menangle Park Mount Gilead Priority Growth Area could ultimately provide approximately 18,000 homes and 4,730 Jobs. This requires more east-west links to Campbelltown-Macarthur and the Hume Motorway in addition to the upgraded Narellan Road.

Spring Farm Parkway would connect Camden Bypass at Spring Farm with the M31 Hume Motorway, Menangle Road and Appin Road. The road will provide relief to Narellan Road and Appin Road and support development in the Menangle Park and Gilead areas. The corridor is already zoned and protected.

Funding was provided in the 2016-17 Budget to progress road projects in the vicinity of Menangle Park and has been tentatively allocated to connections between Spring Farm Parkway and the M31 Hume Motorway to support the Menangle Park rezoning.

NSW Roads and Maritime Services will commence strategic planning for the section between Menangle Road and the rail line in early 2017, with the strategic design and business case planned to be completed in 2018.



Action P9: Develop a threshold for greenfield dwelling numbers based on transport provision

Planning in greenfield precincts should provide for the timely delivery of transport links and ensure that these are sequenced and coordinated with housing delivery, to meet the needs of the future population. In line with Direction 2.4 of A Plan for Growing Sydney.

The NSW Government, through the precinct planning process, will identify new transport connections and coordinate their delivery with the scale of residential development, setting a threshold for the number of new homes that can be constructed in each precinct prior to the delivery of the transport connection.



Action P10: Encourage and support the use of public transport

The delivery of a more accessible, integrated and comprehensive public transport network is crucial to people living in the South West District now, and will be especially so as the area grows.

The NSW Government will investigate:

- extending Sydney Metro from Bankstown to Liverpool and potentially to the Western Sydney Airport as a regionally significant initiative
- evolving the public transport network to improve connections to and between strategic and district centres
- better integration of the local bus networks with other transport options
- improving public transport links throughout the District especially outside peak times and at weekends, and provide regular services in outlying areas
- improving access to all transport interchanges
- providing bus access to and within the Western City, including a possible rapid bus route from Penrith to Liverpool via The Northern Road and Western Sydney Airport, and working with the future Western Sydney Airport operator on a comprehensive Airport Ground Transportation Strategy
- providing public transport options including point-to-point and ondemand services as new homes are built, delivering bus priority measures as roads are upgraded in greenfield areas and increasing services, operating over extended hours, so residents can access major centres and public transport interchanges from the day they move in to set an early public transport culture
- contributions to enable early provision of transport services in all greenfield development.

These opportunities will be considered in further detail as part of the development of the Future Transport Strategy in 2017.

3.3.2 Utilise the natural attributes of the District as economic building blocks

The natural attributes of an area, when combined with high quality design outcomes, can significantly add to the economic opportunities of an area. The preamble in Goal 3 in A Plan for Growing Sydney identifies the importance of creating places and suburbs where people want to live - places with character and vibrancy that offer a sense of belonging. This draft District Plan seeks to link the South West District's natural attributes with opportunities to create a memorable setting and identity for the District,

The District's urban amenity - a productivity consideration

Housing choices for the South West District, together with its urban amenity will influence the District's productivity. Unlike other areas of Greater Sydney, the South West District is, in some areas, being designed from scratch. The concept of design-led planning is covered in detail in Chapter 4, but is important to consider in terms of the District's overall productivity.

This is about more than the design of a strategic centre, health and education super precinct or new business park – it is about the design of the new neighbourhoods that will attract future workers and the general energy and excitement created by mixed areas of new workplaces, homes and entertainment areas.

Similarly, the quality of the urban amenity is paramount, from walkable communities to quality public realms in town centres, if the South West is to be an attractive place to invest and do business.

The District's extensive areas of bushland and rural areas cradle the urban areas in a series of concentric horseshoes. Many residents feel visually connected to a rural environment while living in an urban area - country feel, city living. This visual interface must be retained.

Other elements such as the Scenic Hills and Western Sydney Parklands rural and bushland settings provide a visual relief to the substantial urban areas. In addition, South Creek can also create a strong visual image through the District while also being a place where the built environment can connect with a natural setting. Along with the Nepean and Georges Rivers, the District's waterways can become a more prominent part of economic centres, particularly the Georges River in Liverpool. The significance of these elements is discussed in Section 5.3 and 5.4.

3.3.3 Integrating land use and transport planning for greenfield areas

The South West Priority Crowth Area and Western Sydney Priority Crowth Area are contiguous areas which will have the Western Sydney Airport as their centrepiece.

The integration of land uses and the transport system will influence the level of economic activity that can be attracted and the general liveability of the residents. Similarly, in the Greater Macarthur Priority Growth Area, the integration of land use and transport systems can support greater economic productivity and better quality of life.

Central to an integrated land use and transport outcome is how we plan for the location of major centres, major road and public transport corridors and the natural environment, for example, connecting centres to South Creek.

There appears to be a number of opportunities for road corridors which can connect the communities within and around the South West and Western Sydney Priority Growth Areas. The interrelationship of these corridors with the potential north-south and east-west rail corridors and the Bringelly Road Enterprise Corridor, will influence the ability to attract economic activity. Similarly, the ability to connect centres with the transport network and natural systems such as South Creek will influence opportunities to create a strong local identity which also influences the level of economic activity which can be attracted to the area.

Our planning must also consider local issues such as the delivery of civic and justice facilities - law courts or police stations - and how to manage historic areas such as Camden.



Action P11: Develop specific guidelines to inform the planning of new communities in land release areas

Our planning needs to consider and coordinate a multitude of disciplines when creating the communities of the future, the precincts yet to enter the rezoning process in Priority Growth Areas and the precincts that may emerge as suitable for urban development. This planning will shape the character and identity of large parts of Western Sydney for many decades.

Many issues cross-over local government boundaries and rely on State legislation and decision-making, such as managing the health of river catchments and coordinating land use planning for regional and district infrastructure including transport, open space and retail. Local issues such as scenic landscapes and streetscapes are critical to making great places and can benefit from a broader approach.

Direction 2.4 of A Plan for Grow ing Sydney requires well planned greenfield precincts. A Plan for Growing Sydney also includes a priority for the South West to accelerate housing supply, choice and affordability and create great places to live, A Development Code for land release areas will target high quality urban design in areas that are regionally significant, as well as local considerations that can benefit from a broader approach. The Department of Planning and Environment will consider a range of environmental, social and economic factors in the Development Code, including:

- integrated land use and transport planning including local jobs growth and housing diversity
- catchment management, including riparlan corridors, innovative use of floodplains and remnant vegetation
- district open space requirements
- responses to the urban heat effect

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- place-making including incorporation of district level landscape elements and opportunities to highlight local identity
 - planning for streets to make them safe and attractive for walking.



Action P12: Develop a South West Priority Growth Area land use and infrastructure plan

To provide a basis for the orderly and proper planning for the South West Priority Growth Area, the Department of Planning and Environment, in partnership with local councils, Transport for NSW, the Commission, and other State agencies as relevant, will prepare a South West Priority Growth Area land use and infrastructure plan which will consider, among other things:

- South Creek as the central organising element
- the integration of east-west and north-south transport corridors and South Creek with the identification of locations for new centres
- retention of the filigree of creeks that feed into South Creek and protection of tracts of Cumberland Plain Woodland and remnant vegetation
- the Bringelly Road Enterprise Corridor
- access to high frequency public transport within 800 metres of most dwellings
- minimising the need for six-lane divided roads that act as barriers between communities
- vistas that add to a sense of place, noting that only small building heights will effectively block major distant views
- landscaping around major transport infrastructure
- transport connections east to the M31 Hume Motorway and the established urban area of the Clenfield to Macarthur corridor, south to the communities around Narellan and north through the Western Sydney Priority Growth Area to the Penrith to Parramatta corridor.

3.4 Planning for job target ranges for strategic and district centres

As Greater Sydney transforms into a city of over six million people by 2036 and eight million people by 2056, we need to plan to attract and best distribute employment and economic growth.

Recent projections of future employment consider projected population growth and age profiles, broad economic conditions and trends, sector and industry outlooks and Greater Sydney's planned investments.

These updated projections have revised the forecast demand for jobs across Greater Sydney from 689,000 by 2036 to 817,000 additional jobs.

This is a significant growth opportunity for Greater Sydney as a global city, representing business confidence and economic growth.

We do, however, need to plan for how Greater Sydney attracts and accommodates these jobs in the right locations – the kind of places that we know are supported by land use and infrastructure investment and are attractive from a commercial perspective.

3.4.1 Plan for the growth of centres

A Plan for Crowing Sydney identified 28 strategic centres, and four transport gateways, as places to provide more jobs close to home.

in developing Our vision - Towards our Greater Sydney 2056, the Commission's research found that some centres make a substantially greater contribution to the economy of Greater Sydney. On this basis we have redefined the approach to consider a hierarchy of centres ranging from strategic to district and local. We define strategic centres as having one or more of the following characteristics:

- a higher proportion of knowledgeintensive jobs, principally relating to the presence of major hospitals, tertiary education institutions, stand-alone office development or a combination of these
- the presence of existing or proposed major transport gateways
- a major role in supporting the increased economic activity of the Eastern, Central and Western Cities
- generally generate over 20,000 jobs.

The work to support *Our vision - Towards our Creater Sydney 2056* also identified that there was a range of centres (some of which had been classified as strategic centres in *A Plan for Crowing Sydney*) that in fact play a significant district role due to the presence of one or more of the following characteristics:

- the scale of retail activity, generally over 50,000 square metres of floorspace
- the presence of health and education facilities that serve the district and the local community
- the level of transport services
- generally generate between 5,000 to 10,000 jobs

These centres have been identified as district centres.

It is the presence and scale of the health and education facilities, transport gateway infrastructure and knowledge-intensive jobs that is the key differentiator between strategic and district centres. In that, the government has greater potential to leverage economic activity off existing infrastructure which can enhance the global competitiveness of Greater Sydney.

The differentiation does not intend to impact on the ability for either a strategic or a district centre to attract retail or commercial activity (including office development) of any scale, subject to the normal local planning and development assessment process.

Local centres vary in size from a few shops on the corner to a vibrant main street. They are on a smaller scale than district centres and generally serve the local population.

We have nominated job targets for the District's strategic and district centres to provide guidance to councils and NSW Government agencies as to the likely and potential scale of employment growth and to inform land use and infrastructure planning. Our experience emphasises the value of providing these targets as a range to account for varying economic conditions, investment opportunities and local aspirations.

The lower end of the range of these job targets reflects the baseline of projected job growth that is anticipated in the centre, while the upper end is an aspirational higher growth scenario to reflect outcomes in the case of further investment and land use planning in centres.

On this basis, there will be a need to review the list of strategic and district centres as part of the regular review of the regional plan for Greater Sydney, starting with the review of A Plan for Growing Sydney in 2017.

As the South West District transforms over the next 20 to 40 years, with a city-making new population in land release areas alone, new strategic, district and local centres will emerge to accommodate the economic activities of the District.

Maps of Strategic and District Centres are on pages 58, 60, 69, 70 and 71.

We have also calculated a job target range for Western Sydney Airport. The 2036 baseline target is 29,000 and the 2036 higher target is 34,000.

Table 3-4: South West District job target ranges for strategic and district centres (2016-2036)

Centre	Centre Type	2016 Estimate	2036 Baseline Target	2036 Higher Target
Liverpool	Strategic	29,000	36,000	39,000
Campbelltown-Macarthur	Strategic	20,400	27,000	31,000
Fairfield	District	5,400	6,000	10.000
Narellan	District	10,600	14,000	16.500
Leppington	District	400	7,000	12.500

Source: Transport Performance and Analytics (TPA) (formerly known as Bureau of Transport Statistics), Transport for NSW, Strategic Travel Model (STM) outputs 2016

3.5 Growing and diversifing the economic opportunities in the District's strategic centres

3.5.1 Growing the diversity, level and depth of jobs and the vibrancy of Liverpool strategic centre

Liverpool has the potential to be a centre of knowledge-intensive jobs, housing diversity, with a health and education super precinct and attractive visitor destinations. The Liverpool local government area is already home to about 200,000 residents, and this will exceed 330,000 by 2036.

More importantly, there is an extraordinary level of activity proposed in and around the Liverpool City Centre including:

- proposals for new dwellings
- the Moorebank Intermodal Terminal
- the proposed University of Wollongong and Western Sydney University campuses
- City of Liverpool's projects for the centre.

This activity, coupled with the centre's proximity to the junction of the M7, M5 and M31 Hume Motorway offers opportunities for Liverpool to leverage the Western Sydney Airport and its associated major roads upgrades.

The Liverpool City Centre also has significant institutional assets including the proposed new Western Sydney University and the University of Wollongong campuses, TAFE NSW South Western Sydney campus and numerous schools. Its health facilities include Liverpool Hospital, which is the largest hospital in NSW, as well as a principal teaching hospital for the University of NSW and Western Sydney University, a significant medical precinct and the ingham Institute, a world-renowned leading cancer research facility. Other significant attractors of the Liverpool Strategic Centre include a substantial retail centre and town centre, Council offices and chambers, major industrial areas adjacent to the commercial area at Moorebank and the nearby Warwick Farm Racecourse.

To maximise the opportunities for population and employment growth, and to achieve the desired environmental sustainability and liveability outcomes in Liverpool, a number of interlinked issues need to be properly integrated. They include:

- the high rate of developer interest particularly the currently industrial riverfront, which is constrained by access, flooding, open space provision and related issues from Moorebank to Warwick Farm
- the exhibition of the draft Georges River Masterplan
- pressure to rezone employment and urban services land into residential while requiring adequate land for employment purposes
- pressure on the congested and flood prone road network between the railway line, the M5 Motorway and Henry Lawson Drive, especially as 10,000 truck movements per day are projected to be generated by the Moorebank Intermodal Terminal
- limited north south road connections east of the rail line from the M5 Motorway to the M31 Hume Motorway, insufficient east-west connections from the proposed new developments to the city centre between the M5 Motorway and the M31 Hume Motorway, and requirements for additional roads and bridges over the river and rail line in the mid-to longer-term.

- increased health and education offerings and the potential links to a new private hospital as well as health ancillary and support services in the adjoining town centre area
- required land for schools and other community services
- the Liverpool City Council City Centre Projects to revitalise the city centre.

Other considerations include:

- substantial government land holdings
- lack of pedestrian connections to the river and ability to access and use the riverfront
- understanding building heights and objectives for public areas around the Georges River
- poor urban amenity and underutilisation of land around the station
- the role of the Liverpool Sewage Treatment Plant in relation to South West Priority Growth Area
- the major stadium proposal and assumed conversion of parkland to residential
- previous conversion of parkland to parking and lack of recognition of the potential of Brickmakers Creek to the west of the centre
- the need to establish and strengthen active travel linkages to the west.

Liverpool City Council's Economic Development Strategy 2013-2023 Identifies a number of priorities for future growth of Liverpool

- marketing Liverpool as the business destination of choice in South West Sydney for business and investment
- working with existing businesses in Liverpool by assisting them to link to programs and services by the Australian and NSW Governments that help these firms grow, innovate and improve their competitiveness.
- targeting the attraction of new jobs generating business investment to Liverpool, with a focus on the area's competitive advantages in health, education and medical research, distribution and logistics, professional services, retail and construction
- activating the City Centre and developing vibrant places that attract residents, visitors and workers to Liverpool
- working with prospective and existing local employers to create local employment and selfemployment opportunities
- building community awareness and ownership of activities that strengthen Liverpool's economic base.
- Working with the Australian and NSW Governments to advocate for infrastructure and services in the Liverpool Local Government Area commensurate with Liverpool's regional city status.

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Productivity Priority 2: Manage growth and change in strategic and district centres, and, as relevant, local centres

When undertaking planning for strategic, district and local centres, the relevant planning authority should consider.

- opportunities for existing centres to grow and new centres to be planned to meet forecast demand across a range of retail types
- the need to reinforce the suitability of centres for retail and commercial uses while encouraging a competitive market
- the commercial requirements of retailers and commercial operators such as servicing, location, visibility and accessibility
- the use of the B3 Commercial Core Zones in strategic centres and where appropriate in district centres to reinforce and support the operation and viability of non-residential uses including local office markets

When preparing strategic plans the relevant planning authority needs to demonstrate how its planning for centres has considered strategies to:

- deliver on the strategic and district centres job targets
- · meet the retail and service needs of the community
- facilitate the reinforcement and/or expansion of alled health and research activities
- promote the use of walking, cycling and integrated public transport solutions
- provide urban spaces such as meeting places and playgrounds
- respond to the centre's heritage and history
- promote community arts and cultural activities
- reflect crime prevention through environmental design (CPTED) principles such as safety and management
- manage the transition between higher intensity activity in and around a centre and lower intensity activity that frames the centre.

How these matters are taken into account is to be demonstrated in any relevant planning proposal.



Action P13: Designate Liverpool as a Collaboration Area

A strategic whole of government approach to coordinated planning and infrastructure delivery will maximise the investment, productivity and jobs outcomes for the wider Liverpool City Centre. This requires coordinated activities across state and local government, an agreed vision to provide clarity to the private sector for investment and to the community on desired outcomes, and clarity in infrastructure priorities. In response, we have designated the broader Liverpool strategic centre as a potential collaboration area. Subject to the availability of resources, we will work with different levels of government and, if required, the private sector or landowners, to bring together all interested parties to define the area's assets, benefits, potential, governance and funding arrangements.

A Collaboration Area is a place where a significant productivity, liveability or sustainability outcome is better achieved when different levels of government and in some cases the private sector or landowners collaborate on an agreed outcome.

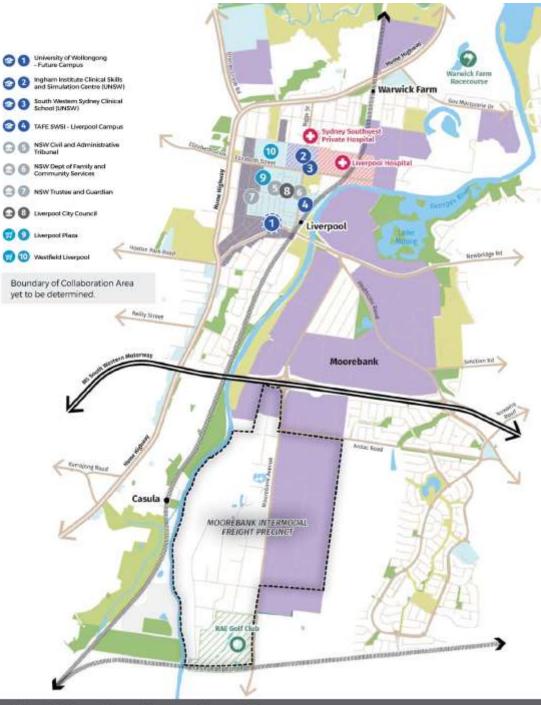


Figure 3-7: Liverpool Strategic Centre - existing activities

0	Hospital		Moorebank Intermodal Terminal Project Area	۲	Waterways
0	University/TAFE		Existing Business Zones	=	Motorway
0	Local Government Office	0	Existing Mixed Use Zone		Highway
0	State Government Office	0	Existing Industrial Zone	-	Major Road
	Retail Hub		Local Public Open Space		Local Road
00	Recreational Facilities		District Public Open Space	2011 • 1011	Railway

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Planning for the Liverpool collaboration area will aim to:

- increase housing diversity and affordability
- improve and coordinate transport and other infrastructure links and accessibility to support job growth
- enhance smart job growth around the health and education super precinct
- improve the night-time economy, connectivity and mixed use in the centre
- Improve urban amenity and the sense of place
- Improve environmental outcomes around the Georges River.

Transport for NSW will also explore ways that transport actions and initiatives can contribute to these objectives for Liverpool City Centre.

3.5.2 Growing the diversity, level and depth of jobs and the vibrancy of Campbelltown-Macarthur strategic centre

Campbelltown-Macarthur has the potential to be a strategic centre of smart jobs, housing diversity, a health and education super precinct and an attractive destination, with better east west transport connections.

Campbelltown-Macarthur accommodates a range of educational facilities such as the Western Sydney University Campbelltown campus and NSW TAFE campus. Campbelltown public and private hospitals and the Western Sydney School of Medicine support the local and regional communities' health care needs. Campbelltown-Macarthur also has an important retail and civic role in the district.

The Campbelltown City Centre is a longestablished business hub that requires rejuvenation to better serve the District's community. Our planning needs to make the centre a more attractive place, and make it easier to access and travel through to attract business investment. In responding to these challenges the planning for Campbelltown-Macarthur needs to consider:

- the level of access to significant existing and future population to the west of the centre, including the communities in and around Narellan and Camden
- the benefits of connecting Badgally Road across the rail line to Broughton Street
- the level of urban renewal in the Greater Macarthur Priority Growth Area - The NSW Government has prepared a land use and infrastructure strategy for the Glenfield to Macarthur corridor, outlining its vision for the future of seven railway station precincts including Glenfield, Macquarie Fields, Ingleburn, Minto, Leumeah, Campbelltown and Macarthur.
- the NSW Government's identification of opportunities to deliver up to 35,000 home sites in Menangle Park and Mount Cilead and in a new town at Wilton.
 These new communities will form part of the catchment for the Campbelltown-Macarthur strategic centre.
- the ability of Campbelltown-Macarthur to accommodate and attract investment, including the quality of its public realm as an attractor.

Campbelltown City Council is currently preparing a CBD transformation plan for the Campbelltown-Macarthur city centre. The NSW Government will collaborate with council in the delivery of the transformation plan for the area as a distinctive city centre, focusing on opportunities to:

- sustain Campbelltown-Macarthur's role as a strategic centre and health and education precinct including the attraction of allied health activities and private health facilities
- recognise, plan and connect the centre's distinctive functional precincts to create improved centre legibility, promote activation, celebrate diversity in urban experiences, and attract visitor curiosity
- enhance strategic access to the City Centre from the South West Priority Growth Area, the Greater Macarthur, Western Sydney Airport, other strategic centres including Penrith and Liverpool, the Illawarra, Sydney City and Greater Parramatta and the Olympic Peninsula (GPOP)

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Figure 3-8: Campbelltown-Macarthur Strategic Centre – existing activities

×	Θ	Local Covernment Office		Regional Public Open Space
Hospital	0	State Government Office		Waterways
X	*	Cultural Centre	ROUMENDE	Railway
University/TAFE	•	Existing Business Zones	NULL 🕈 1188	Railway Station
	•	Existing Mixed Use Zone		Motorway
UrbanGrowth NSW Project	•	Existing Industrial Zones		Major Road
= = Priority Growth Area Precinct	•	Local Public Open Space		Local Road
💮 Retail hub	•	District Public Open Space		

- build on the centre's magnet infrastructure and its geographic positioning to foster economic development and jobs growth
- recognise and promote the City Centre's capacity to grow in tandem with the population growth earmarked for South West and Creater Macarthur
- maximise the uptake of extensive new development and redevelopment opportunities throughout the City Centre including a range of strategic land holdings owned by Council, to shape a distinctive city centre destination
- uplift the quality, functionality. connectivity and amenity of the City Centre's public domain
- attract businesses, innovation, jobs and development into the centre.
- involve key stakeholders such as Western Sydney University
- improve connectivity into and throughout the regional city for all modes of transport, for example, a potential extension of Badgally Road into Campbelltown-Macarthur city centre
- identify the required land and infrastructure to support the health sector in Campbelltown Hospital surrounds and the education sector in Western Sydney University surrounds.



Action P14: Support the development and delivery for the Campbelltown-Macarthur strategic centre with a CBD

transformation plan

We will collaborate with the Campbelltown City Council and relevant government agencies to achieve a coordinated outcome to transform the Campbelltown-Macarthur strategic centre,

3.6 Growing jobs in the health and education sectors

The South West District already benefits from the existing concentration of health and education facilities in the strategic centres of Liverpool and Campbelltown-Macarthur. It has a higher proportion of health and education jobs (22%) compared with Greater Sydney (19%).

With the emergence of jobs and opportunities around the Western Sydney Airport, together with the continued growth in population, there is a significant opportunity to leverage off the existing strengths of these strategic centres to transform their economies through the creation of world class health and education superprecincts based around their universities and hospitals.

Smart jobs need access to a skilled workforce. While there is a strong presence of health and education jobs in the south West, there is a lower proportion of knowledge intensive jobs at 16% compared with 32% in Greater Sydney. Thus it is challenging for businesses in the District to find the right skilled talent to fill management and technical positions.

Attachment

Health and education super precincts

Across Greater Sydney there are a number of locations where the proximity of health and education assets creates significant opportunity to drive economic activity and the prosperity of NSW. We have identified these as health and education super precincts. Health and education super precincts are important locations for knowledge-intensive jobs, innovation and service delivery. It is anticipated that by 2036, 21% of all Greater Sydney jobs will be in the health and education sectors.

Our health and education super precincts mirror closely the list of significant metropolitan health and education precincts identified in A Plan for Growing Sydney. The only exceptions are Rhodes - where there is no major education presence - and Rydalmere - where there is no major health presence.

Our approach to health and education super precincts will be refined further and confirmed in our review of A Plan for Growing Sydney in 2017.

Liverpool and Campbelltown-Macarthur are the South West District's health and education super precincts.

Currently the South West District lags behind in the provision of university education and opportunities.

In the entire District there are three university campuses – Western Sydney University at Campbelltown, the University of Sydney's Camden Farms and the University of New South Wales, South Western Sydney Clinical School at Liverpool Hospital. There are fewer than 9,000 university enrolments, compared with approximately 151,000 in the Central District.

The proportion of 25-34 year-olds with tertiary education qualifications in Western Sydney (16.5%) lags behind Greater Sydney (24.1%) by over 30%. In the South West District, a lower proportion of residents (12%) hold a university qualification (Bachelor Degree and Post Graduate Degree) compared to the Greater Sydney average (27%). Conversely a higher proportion (29%) hold vocational qualifications (including Certificate III and Certificate IV) than the Greater Sydney average (28%).

Changes will begin to emerge in 2017 with the opening of two new university campuses by Western Sydney University and the University of Wollongong in Liverpool. Western Sydney University has plans to expand its medical and health programs at Campbelltown and the University of Sydney is planning to leverage its existing assets in the South West to expand its research and education activities.

Growing jobs in the health and education sectors delivers on Direction 1.10 in *A Plan for Growing Sydney*; specifically Actions 1.10.2 and 1.10.3.

3.6.1 Foster 'Smart Liverpool' – a city of business innovation and health and education excellence

In 2017 the University of Wollongong and Western Sydney University will both open new campuses in Liverpool which will be integrated into the City Centre, and there are plans for significant future development.

This will catalyse the growth of smart jobs and support the realisation of Liverpool City Council's *Economic Development Strategy* 2013-2023. The strategy targets the attraction of new jobs generating business investment to Liverpool with a focus on the area's competitive advantages in health, education and medical research, distribution and logistics, professional services, retail and construction sector.

More than 6,000 people are already employed in health and education in the Liverpool Local Government Area.

Liverpool Hospital is one of the largest hospitals in Australia and is a principal teaching hospital for both the University of New South Wales and Western Sydney University, providing medical student placements and an active education program for medical practitioners, nurses and health professionals.

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There is a private hospital and the centre is also at the forefront of health and medical research, with the Ingham Institute for Applied Medical Research.

In addition, Liverpool TAFE has approximately 4,000 students enrolled each year.

University of Wollongong

The University of Wollongong's new South Western Sydney Campus in Liverpool – announced in May 2016 – will open in 2017. It will initially occupy two floors in the Liverpool City Council's Moore Street building before moving into larger premises in Liverpool's new Civic Place development, expected to be completed in 2019.

From the start of the 2017 academic year, the interim campus will offer programs reflecting Liverpool residents' preferences, spanning disciplines from the University's Faculty of Law, Humanities and the Arts, Faculty of Business, Faculty of Engineering and Information Sciences and Faculty of Science. Medicine and Health as well as University of Wollongong College university entry and vocational training programs.

The University plans to expand the campus to cater for more than 7,000 students by 2030.

Along with the new campus, the University announced the establishment of the Western Sydney Nursing Education and Research Centre (WesNER) to train the next generation of nurses and encourage them to study, train and work in the Liverpool area, which is due to commence in 2019.

University of Wollongong's South Western Sydney campus will provide greater choice for those preferring to study close to home and bring substantial economic and social benefits by keeping Liverpool City's brightest minds in the area. It will contribute alongside existing providers in the already strong health and medical precinct to meet the health needs of Liverpool's rapidly growing population while working with the Council and businesses to support innovation.

Western Sydney University

Western Sydney University's Liverpool city campus - announced in 2015 - will begin operations in January 2017. This will significantly expand higher education opportunities for residents, help transform the centre's knowledge economy and drive business development in the District.

The new 3,000 square metre Higher Education Centre, over three floors at 100 Macquarie Street, will be a high-quality, modern, technology-rich and highly-flexible space. This will add to the University's existing presence in the centre, via its Launch Pad start-up incubator at Moore Street, and as a clinical partner at Liverpool Hospital and the Ingham Institute.

Approximately 1.000 students are expected at the Higher Education Centre and its capacity will be significantly scaled up over the first two years, with a view to developing a large-scale campus.

As well as providing a suite of undergraduate and postgraduate courses in the areas of business, information technology and health, the University will also offer its highly successful pathways College – one of the leading pathways programs in Australia. The College will provide a range of diploma programs to students at Liverpool, which, after successful completion, gives them direct entry to the second-year of a Western Sydney University degree.

The Centre will also include the University's Launch Pad smart business centre, which brings together government, corporate and University expertise and provides mentorship to start-ups and early stage businesses. Embedding the Launch Pad Centre within the site adds another important dimension by helping to drive business and economic development and foster an entrepreneurial culture across the centre.

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Liverpool health and education super precinct project

The dramatic increase and changing character of the population in the South West District presents a new opportunity for health, research and education investment around Liverpool Hospital to create a new health precinct.

As an important first step to achieving this goal, the Western Sydney Business Chamber is working with the South West Sydney Local Health District to commission an economic and planning study which will inform a Liverpool Health and Education Precinct.

A workshop with opinion leaders was held in November 2016 to create the scope for the research and to identify partners to fund the research.

The objectives of the workshop were to:

- understand the place of health and education in Liverpool's future
- understand the place of Liverpool Hospital as the core of a health and education precinct in the longterm future of the region (including what its critical niche might be).
- develop an alliance of organisations committed to the concept of a Liverpool health and education precinct and begin the exploration and delivery of that concept
- establish a governance structure for the above.

The outcomes of this research and further progress will be included in the final District Plan.



Action P15: Plan for the Liverpool health and education super precinct as part of the Liverpool collaboration area

We will support the growth and development of the Liverpool health and education super precinct though the work of the Liverpool Collaboration Area (see Action P13). NSW Health will be a key partner in delivering on this Action.

3.6.2 Promote and grow Campbelltown - the emerging Health and Medical University City

The South West District continues to be a heightened area of priority and emerging activity in research and higher education. In response to existing and projected demand for quality healthcare. Western Sydney University is consolidating and developing significant health initiatives in Campbelltown-Macarthur, centred around its School of Medicine and Nursing and Midwifery programs.

Over 7,000 students are already enrolled at the Campbelltown campus with 632 studying Medicine, almost 3000 enrolled in nursing and midwifery programs and approximately 2,100 enrolled in allied health programs.

Importantly, the health capacity the University is building in this area is afforded added sustainability by the fact that well over 50% of health and medicine related graduates choose to stay and work in the region once qualified.

it builds on the University's strong relationship with Campbelltown Hospital, which is currently undergoing a \$134 million redevelopment, and the growing health and medical precinct which surrounds it.

It is further enhanced by the completion of the new jointly NSW Government-University funded Macarthur Clinical School at Campbelltown Hospital.

The recently announced Campbelltown Sports and Health Centre of Excellence, funded by the Federal Covernment together with contributions from Campbelltown City Council, Western Sydney University, UrbanGrowth NSW and the AFL to be established at the Western Sydney University, Campbelltown Campus provides further opportunities for growing health and education jobs in Campbelltown.

It will also include multiple gymnasiums. indoor courts, and training and playing fields. In addition to providing aspiring athletes a pathway to elite sport, the Centre will provide a myriad of health facilities providing individual and inter-professional health and medical services and be a 'Centre of Excellence' in service provision and clinical training across many of the Western Sydney University disciplines.

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3.6.3 Support the growth of tertiary education opportunities

Growing health and education opportunities is important for the prosperity of the District. The Commission supports plans to expand health and education assets and activities in the South West District.

University of Sydney's Western Sydney Story

The University of Sydney has had a significant presence in the Western Sydney community since 1910. It is now one of the region's largest landholders and more than 10.000 of its students are from the local area. The University is continuing to grow its presence in Western Sydney through developing research, education and industry engagement activities across multidisciplinary activities including a significant presence at Camden focused on agriculture and veterinary science.

TAFE in the South West

TAFE NSW is Australia's largest provider of vocational education and training, and has a key presence across all six Greater Sydney districts. In the South West District TAFE NSW delivers training across six campuses to over 30,000 students each year.

As TAFE moves into a new "one TAFE" organisation, with a greater focus on collaboration with business and industry, it has the potential to play a significant role in the development of the health and education super-precincts at Liverpool and Campbelltown.

In Campbelltown over 7.000 students enrol each year on a campus adjacent to the Western Sydney University and close to the health precinct.

Liverpool enrols over 4,000 students on a campus close to Liverpool Hospital. It encompasses the nearby Education and Training Centre which provides education, training and consultancy services to business, industry and the community with a focus on the delivery of training to develop a globally competitive workforce for local businesses and industry. It also provides English Language Training for overseas students through the TAFE International Education Centre (TIEC).

To support the development of the NSW Government's critical infrastructure projects. TAFE NSW is investing in new state-of-the-art facilities to skill apprentices in the South West for key growth industries such as construction, electro technology, engineering, transport, warehousing and logistics.

TAFE NSW is also in discussions with Moorebank. Intermodal terminal about the potential to establish a Skills Exchange model for the construction of the terminal and the worker engagement, and for training around smart transport and logistics in the longer term.

Other significant developments proposed for the South West include industry partnerships for the Western Sydney Airport. TAFE NSW is planning for the establishment of a Connected Learning Centre to provide students with greater access to facilitated online learning and support services in the areas of aviation and transport from Badgerys Creek and the establishment of a Skills Exchange on the construction site to train the workers and develop pathways into sustainable jobs.

In order to grow the proportion of smart jobs in the District, it is important to grow the skilled workforce by improving access to the relevant vocational education and training (VET), higher education facilities and training programs.

Recent NSW Government commitments include:

- changes to the VET funding eligibility and fees to improve take up, including 25,000 STEM scholarships
- the Infrastructure Skills Legacy Program
- the Smart. Skilled and Hired program which has Western Sydney as a focus area to train young people for employment.

3.6.4 Encourage additional private hospital development in the strategic, district and local centres

There are existing private hospitals at Liverpool (Sydney South West Private Hospital) and Campbelltown (Northside Macarthur Clinic and Campbelltown Private Hospital) which will be significant in the optimisation of the health and education super precincts in these Strategic Centres.

With the large population growth expected South West District there will be opportunities for additional private hospitals to service the community. SOUTH WEST DIST

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A development application has been lodged for the proposed Camden Private Hospital at Gregory Hills with the first stage of the \$330 million development expected to open in 2020. This 473 bed hospital would be one of the largest private hospitals in Sydney and is expected to generate approximately 3,200 direct and indirect jobs.

The new Camden Day Hospital in Elderslie is expected to open mid-2017.

The further development of private hospitals will support the creation of health and education smart jobs and should be encouraged in accessible locations where they can be aligned with the provision of allied health services and in home support services. The location of private medical facilities at key strategic and district centres will ensure they are accessible by public transport and in turn will add to the viability of those centres. Suitable locations for these facilities near public transport nodes should be planned at the earliest stages.

3.7 Coordinating infrastructure planning with population growth enhancing local access

3.7.1 Facilitate local employment in land release and urban renewal areas

Successful development of the Western Sydney, South West and the Greater Macarthur Priority Growth Areas as well as additional greenfield and urban renewal precincts rely on the provision of transport infrastructure and local jobs and services to meet the needs of the future population.

In the Glenfield to Macarthur Urban Renewal Corridor, we will investigate opportunities to create local employment, and how to sequence local employment with the development and the delivery of infrastructure.

We will also support urban renewal around Fairfield, Canley Vale and Cabramatta stations that provides new housing and local employment.



Action P16: Work with State agencies, especially Sydney Water, to enable the timely delivery of infrastructure for employment and urban services land

The provision of utilities will enable an adequate supply of serviced employment and urban services land. Currently, utilities and service delivery is reactive - providers rely on growth projections and zoning plans to identify their infrastructure requirements. Better briefings and data sharing will promote better planning for infrastructure delivery.

The NSW Government will work with councils and utility providers to align the delivery of electricity, sewer and water infrastructure with demand for serviced industrial lands across the District. The provision of up-to-date demographic and housing data will assist in the delivery of this outcome - also refer actions L7 and L8 in Section 4.4.

The servicing of industrial and employment lands will align with the priority employment lands identified in the industrial and employment lands strategy to ensure that the land of highest strategic value for employment creation receives priority for service provision.

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Action P17: Set parameters for the delivery of local jobs as a condition of approval for rezoning in new release areas

The South West District already has a high proportion of people who travel more than 30 minutes to their workplace. If large scale residential growth in the District is not matched by local job creation, the social and productivity problems associated with long commutes to work will increase. Population growth will drive demand for retail and hospitality jobs, local service industries, personal services, cafes, restaurants and urban services; however, these jobs are not sufficient to provide local employment for all new households.

The planned provision of job opportunities needs to accompany residential growth across the District. Rezoning of new residential release areas needs to be linked to the rezoning and development of land for employment opportunities.

Investigations are currently underway to determine how this objective can be achieved in practice without limiting residential development which is the pre-condition to local employment, services and health and education jobs.

The Department of Planning and Environment will continue these investigations in consultation with the Commission and councils to improve mechanisms for providing local jobs in new release areas.

3.7.2 Supporting the growth of retail floor space

Our retail demand and supply research forms part of our evidence base and background studies. This research estimates that, in 2015 there was approximately 10.87 million square metres of retail floor space across Greater Sydney, equating to 2.4 square metres per person. Looking forward, using the medium population growth scenario, demand will be generated for over five million square metres of retail floor space across Creater Sydney between by 2036. As more than two thirds of this growth is forecast to occur within established areas, that may provide some constraints to retail supply. It is a matter we have identified as necessary for further research prioritisation.

As of 2015, the South West District contains approximately 1.5 million square metres of retail floor space (2.2 square metres per person).

More broadly Creater Sydney has a long history of focusing its retail offer within centres. This has positively reinforced the polycentric character of Greater Sydney that has provided convenient access to a range of goods and services for many communities, visitors and workers. It has also allowed for centres such as Parramatta, Chatswood, Bondi Junction, Liverpool, Hurstville and Penrith across Greater Sydney to have high concentrations of retail, housing and jobs collocated on the major transport corridors. This has also allowed for the efficient and effective use of both privately and publicly funded infrastructure.

In this context, our planning should reinforce Greater Sydney's strong focus on centres and support the expansion of existing centres to accommodate the growth in demand for retail and associated services. We should also investigate opportunities for new centres to be formed in appropriate locations that are supported by transport and other important forms of infrastructure.

Our retail dataset, available as part of our background studies, is a useful strategic planning tool that indicates current supply and where demand is likely to require increased retail development at a district and local government area level.

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Productivity Priority 3: Prioritise the provision of retail floor space in centres

When preparing retail and commercial strategies to inform local planning, the following matters should be considered:

- existing and future supply and demand for retail floor space within the District based on the Department of Planning and Environment's medium population growth scenario
- the accessibility of different types of retail and commercial floor space to communities
- opportunities to allow retail and commercial activities to innovate
- the impacts of new retail and commercial proposals to the viability and vitality of existing and planned centres
- the need for new retail development to reinforce/enhance the public domain
- the net social, economic and environmental benefits of new supply within different locations

How these matters are taken into account is to be demonstrated in any relevant planning proposal.

3.7.3 Facilitating jobs growth in Wilton New Town in line with population growth

Wilton New Town has the capacity for more than 8.000 new jobs once it is fully developed, with capacity for more than 7.300 new jobs planned in a new centre at Wilton Junction.

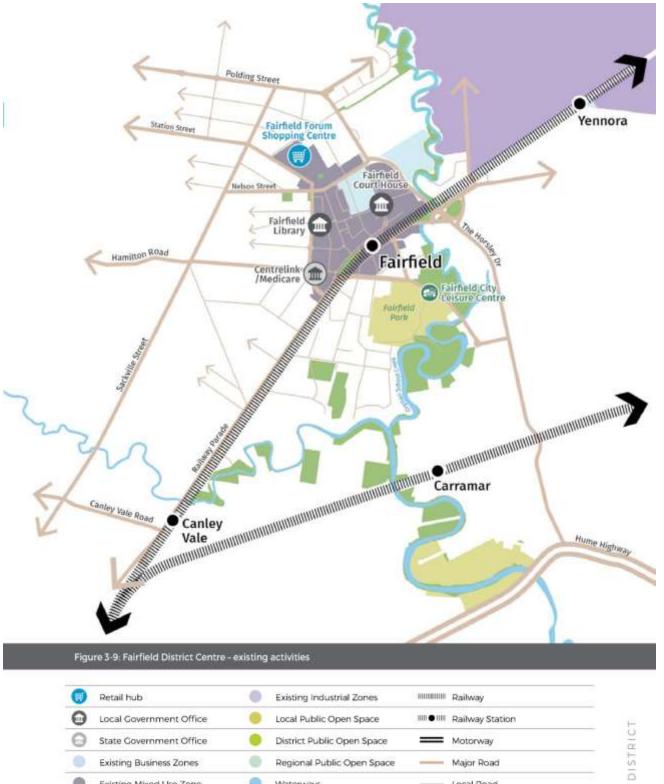
We need to create jobs in a range of industries, including retail, education, trades and service industries and light industry within the New Town. To help create these jobs, growth must be supported by infrastructure, provided at the right time with the right level of capacity in line with population and economic growth. Some of the major transport infrastructure improvements that have been identified to support Wilton New Town include the widening of sections of Picton Road and the M31 Hume Motorway, upgrading the Picton Road/M31 Hume Motorway interchange and new rapid bus services connecting to Campbelltown-Macarthur.



Action P18: Plan for and facilitate the attraction of new jobs in Wilton New Town

The Department of Planning and Environment will:

- work with Wollondilly Council and other stakeholders to develop economic development strategies that can attract businesses to Wilton New Town and support Job creation
- ensure that satisfactory arrangements are in place to deliver necessary infrastructure before land is zoned for urban development.



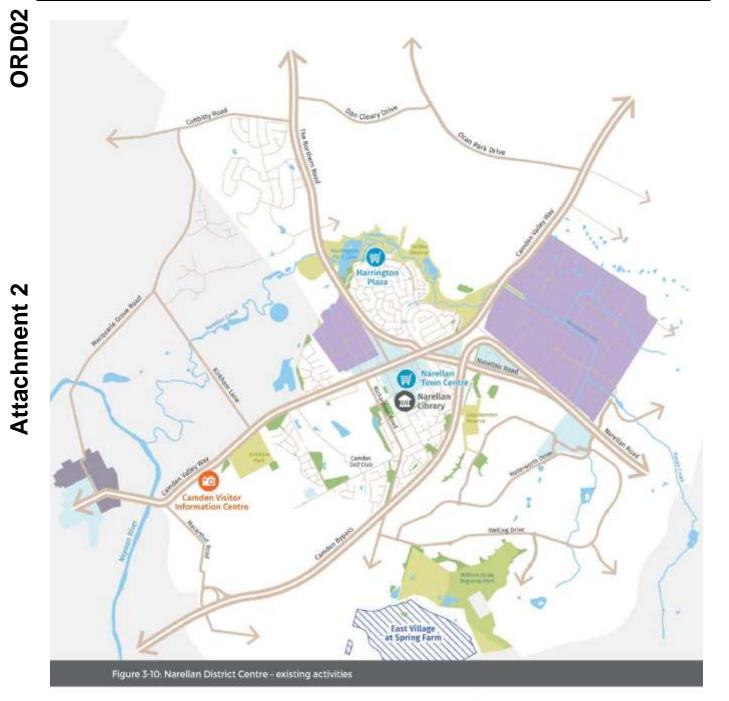
Local Road

Existing Mixed Use Zone

0

Waterways

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0	UrbanGrowth NSW Project	Existing Industrial Zones		Waterways
0	Local Government Office	Existing Business Zones	_	Highway
•	Retail hub	Existing Mixed Use Zone		Major Road
0	Tourism Centre	Local Public Open Space		Local Road
	Metropolitan Rural Area	District Public Open Space		



)	Future TAFE	•	Existing Industrial Zones	m 🔊	South West Rail Line Extension Corridor
D	Future Health Facility		Local Public Open Space	IIC•III	Railway
	Retail hub	•	District Public Open Space	_	Major Road
	Future Open Space		Regional Public Open Space		Local Road
D	Existing Business Zones		Waterways		
8	Existing Mixed Use Zone	124812	Priority Crowth Area Precinct		

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3.8 Strengthening the diversity of employment choice

3.8.1 Provide for efficient movement of freight to and within the District with least impact on residents' amenity

Freight and logistics activities are an economic facilitator in any city. This statement is true for every class of freight – from air to rail and container freight, to the local delivery of parcels in vans. Our land use planning must therefore recognise, support and mitigate impacts of freight delivery. Maintaining the productivity of the District's freight network is an important consideration in this draft District Plan.

Freight activity and patterns are changing rapidly due to changes in consumer patterns and how and where products are manufactured. Products now travel longer distances to reach consumers.

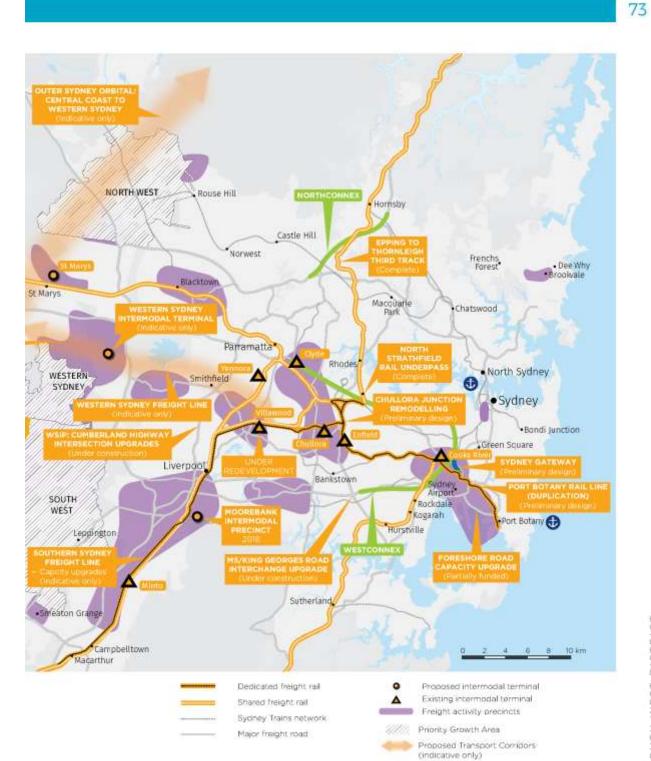
The future of freight needs to build on the existing NSW Freight and Ports Strategy to be both agile and responsive, as well as cost effective and efficient, and with limited impacts on residents. New urban spaces will be required to accommodate service vehicles and deliveries at all hours.

The South West District will be a key destination for cargo arriving at Port Botany and will be home to nationally significant freight infrastructure including intermodal terminals, and significant local employment and urban services land and distribution centres.

The National Land Transport Network in the District includes the M7 Motorway, the M31 Hume Motorway and M5 Motorway corridors. The rail corridor also provides an important link for the movement of bulk and containerised freight to domestic, interstate and export markets.



Source Transport for NSW (2016)





Action P19: Identify and plan for efficient movement of freight to, from and within the District, with least impact on residents' amenity

Figure 3-12 shows the existing, planned and under investigation freight network in the South West District. In the long term, freight and logistics activities in the District will be supported by:

- Moorebank Intermodal Terminal Stage 1 currently under construction
- Outer Sydney Orbital under investigation for preservation
- Western Sydney Fuel Pipeline and Intermodal - under investigation
- M12 Motorway in planning.

Several freight corridors also need to be considered in addition to the Western Sydney Airport's expected logistics and servicing requirements. The NSW Government will continue to plan for suitable east-west and north-south rail and road corridors to link the Western Sydney Airport to Port Botany and Port Kembla



Action P20: Provide adequate access to and from the Moorebank Intermodal Terminal

The Moorebank Intermodal Terminal, including a freight terminal with a shuttle to Port Botany, is due to open by July 2017. The terminal will increase Greater Sydney's rail freight capacity, reduce freight on the road network and link to the Australian Rail Track Corporation national rail freight network.

Transport for NSW will work with local government and other stakeholders to plan for adequate access to and from the Moorebank Intermodal Terminal, including north-south road connections on the east side of the rail line from the M5 Motorway to the M31 Hume Motorway and new roads and bridges over the river and rail line. This work will be considered in planning for the Liverpool collaboration area.

3.8.2 Retain and grow the agricultural, horticultural and rural industry

The South West District has a long history of productive agricultural and horticultural activity which continues to exist today. The District's Metropolitan Rural Area accommodates a mix of farming including the production of poultry meat and eggs, vegetables, turf, cut flowers and dairy which take advantage of their proximity to the Sydney markets. Residents of the South West District identify strongly with both their rural visual landscape and its remaining agricultural use which provide a sense of belonging.

The development of the Western Sydney Airport will potentially expand opportunities for increased agricultural exports.

The Sydney University Campus at Cobbitty/ Brownlow Hill provides tertiary education in agriculture and veterinary science and includes the main plant breeding research facility for the Faculty of Agriculture, Food and Natural Resources. The Elizabeth Macarthur Agricultural Institute's Centre for Excellence for animal and plant health plays a vital role in the protection of Australia's economy. community and environment from animal pests and plant diseases. Many of the Elizabeth Macarthur Agricultural Institute's scientists are world leaders in their field with specialist teams dedicated to research improving Australia's agricultural competitiveness. The Western Sydney Airport will provide greater international access to these facilities and there are opportunities to expand on the smart jobs within these facilities and in their vicinity.

3.8.3 Facilitate visitor destination potential of the South West District

The South West District has distinctive natural and cultural assets that differentiate it from other areas in Greater Sydney.

- national parks and open spaces, including the Dharawal National Park offer a diverse bushland experience as well as cultural attractions with a number of special Aboriginal sites
- the natural landscape of the rural area and the rural towns and villages attract many visitors
- the agricultural sector provides tourism opportunities
- Australian Botanic Carden at Mount Annan is Australia's largest botanic garden with more than 2,000 species of native plants
- multicultural attractions include
 Vietnamese food trails in Cabramatta and Indian saris in Liverpool
- affordable tourism accommodation facilities in Liverpool, with good access to locations such as Sydney City, Blue Mountains and Canberra.

The NSW Covernment recently announced a \$43 million investment over four years in a major overhaul in the way regional and rural areas attract visitors. This includes the creation of six new Destination Networks throughout NSW. The Destination Networks are new entities that will replace the existing Regional Tourism Organisations to advance the interests of growing tourism in NSW. The South West District is covered by 'Destination Sydney Surrounds South'.

There is an opportunity to leverage the visitor destination potential of the South West's natural assets and multicultural community to develop tourism opportunities and a thriving visitor economy in the South West for both domestic and international visitors.



Action P21: Leverage the South West District's potential as a visitor destination

The Commission supports the initiative of Councils to develop and implement a District Tourism Strategy in conjunction with Destination NSW, leveraging opportunities in the following areas:

- environment and nature tourism
- adventure/sporting tourism
- rural tourism and food trail opportunities
- Aboriginal cultural heritage tourism (especially linked to Dharawal National Park)
- heritage tours across the District
- better access to natural areas
- the Australian Botanic Gardens at Mount Annan
- national parks and open spaces including Dharawal National Park, Bents Basin State Conservation Area, Western Sydney Parklands, Georges River Regional Open Space (and Environmental) Corridor, Koala Habitat Protection
- the multicultural diversity of the District for potential domestic and international investors in the Western Sydney Airport area.

Attachment

Employment and urban services land

In 2006, the Employment Lands Task Force defined employment land as "zoned for industrial or similar purposes in planning instruments [and] generally lower density employment areas containing concentrations of businesses involved in manufacturing: transport and warehousing; service and repair trades and industries; integrated enterprises with a mix of administration, production, warehousing, research and development; and urban services and utilities".

From 2008, employment lands were categorised into precincts. With the implementation of the Standard Instrument Local Environmental Plan, these precincts can now include other business zones that permit a number of industrial uses.

In this District Plan, the Commission has replaced the term 'Employment Land' with 'Employment and urban services Land'. While this still describes the same type of land, the terminology reflects the evolving nature of employment areas, the jobs and economic activity they generate, and the way they support urban areas and industries (for example, by providing land for data centres, utilities and distribution centres) as well as local residents (for example, by providing land for panel beaters, council depots, vehicle repairs and household trades), 3.8.4 Protect and manage employment and urban services land
 A pipeline of employment

Employment and urban services land supports activities that are critical to Greater Sydney's productivity, sustainability and liveability. In this context Greater Sydney's existing industrial, manufacturing, warehousing and distribution industries contribute to its role as Australia's manufacturing capital. Furthermore good access to urban services locally reduces the need to travel to other areas, minimising congestion of the land transport system. We therefore need to ensure that our employment lands are efficiently managed and protected across Greater Sydney and within the South West District.

In 2015, approximately 3,400 hectares of the South West District was zoned for employment and urban services land. This land is spread across 42 separate precincts representing 25% of Greater Sydney's total stock of employment and urban services lands. The South West District had 710.9 hectares of undeveloped employment and urban services lands in 2015.

The District's employment and urban service land includes parts of Greater Sydney's major employment and urban service areas including the corridor from Liverpool to Campbelltown and the Fairfield to Eastern Creek corridor which includes Wetherill Park.

A further 2.827 hectares of land is proposed to be rezoned for employment and urban service purposes in the District, the majority in the South West Priority Crowth Area.

Table 3-5 large employment and urban service areas (more than 30 hectares) in the South West District by local government area, based on the Department of Planning and Environment's Employment Lands Development Program 2015. Smaller parcels of employment land are also important to the economy of Greater Sydney.

LGA	Precinct	Undeveloped land (hectares)	Developed land (hectares)	Total (hectares)
	Leppington North	70.8	0	70.8
Camden	Narellan	5.7	29.0	34.7
	Smeaton Grange	58.3	141.1	199.4
	Turner Road	35.3	4.2	39.5
	Campbelitown Blaxland Road	36.8	100.2	137.0
Campbelitown	Ingleburn	14.8	300.5	315.3
	Minto	18.9	237.8	256.7
Fairfield	Fairfield East	D	99.5	99.5
	Lansvale	0.2	57.2	57.4
	Smithfield, South	0.2	42.4	42.6
	South of Sydney Water Pipeline	76.6	175.6	252.1
	Wetherill Park	33.8	525.3	559.1
	Austral	44.8	0	44.8
	Chipping Norton	0.6	100.3	100.9
Liverpool	Hoxton Park Airport	3.9	36.1	40.0
	Moorebank	11.7	324.4	336.1
	Yarunga/Prestons	118.0	225.0	342.9
Wollondilly	Maldon	64.3	105.0	169.3
wononumy	Picton	0.7	30.0	30.7

Table 3-5: Major employment and urban services precincts (larger than 30 hectares) In the South West District (January 2015)

Source: Department of Planning and Environment: Employment Lands Development Program (2015)

Planning for the future of the South West District needs to provide a pipeline of sufficient services lands in the South West District. employment and urban services lands to complement the Western Sydney Airport and provide opportunities for local jobs and urban services.

Allowing activities in the established employment and urban services areas to evolve over time while still retaining urban services and major freight and logistics facilities is essential. Office developments would be an appropriate

activity in these employment and urban

Our research shows that the nature of employment and urban services land across Greater Sydney is changing as technologies and new industries emerge. The precincts are evolving into agglomerations of a mix of businesses as distinct from 'industrial' land. This trend is particularly apparent east of Parramatta.



While some traditional industrial activities continue to be located in employment and urban services land precincts, there has been a significant increase in other types of business in these precincts too. For example, high value urban manufacturing uses have become common in some precincts, particularly those close to strategic centres. This has enabled an intensification of land use in some areas and a rise in demand for industrial strata units. There is also increasing pressure on a number of employment and urban services land precincts to be converted to residential or retail uses.

Action 1.9.2 of A Plan for Growing Sydney emphasises the importance of employment lands and urban services to Greater Sydney's productivity. The Commission's research has reaffirmed their value, underpinned by the economic contributions they make and strong demand for this comparatively scarce resource.

These lands are however under threat of erosion by alternative (and in financial terms – higher and better uses) uses such as residential or retail. Although the South West District has seen relatively little employment and urban services land rezoned for other uses, this has been evidence in other parts of Greater Sydney.

Such rezonings have the potential to have longer term growth and productivity implications for Greater Sydney. On this basis it is a priority of the Commission to take a precautionary approach to the conversion of employment and urban services lands in the absences of a District wide assessment of their value and objectives.

The Commission identifies as a priority the need for additional work to be undertaken in collaboration with councils to explore and where appropriate verify this precautionary approach and to step away from the industrial lands checklist suggested by A Plan for Growing Sydney during our review of this Regional Plan in 2017.



Productivity Priority 4: Protect and support employment and urban services land

Employment and urban service lands play a critical role in the efficient and effective function of the District. Owing to the comparative scarcity of this resource, a holistic and precautionary approach to their planning should be undertaken.

Accordingly, relevant planning authorities should take a precautionary approach to rezoning employment and urban services lands or adding additional permissible uses that would hinder their role and function. The exception being where there is a clear direction in the Regional Plan (currently A Plan for Growing Sydney), the District Plan or an alternative strategy endorsed by the relevant planning authority. Any such alternative strategy should be based on a net community benefit assessment (i.e. analysis of the economic, environmental and social implications) of the proposed exception taking into account a Districtwide perspective in accordance with Action P22 described below.

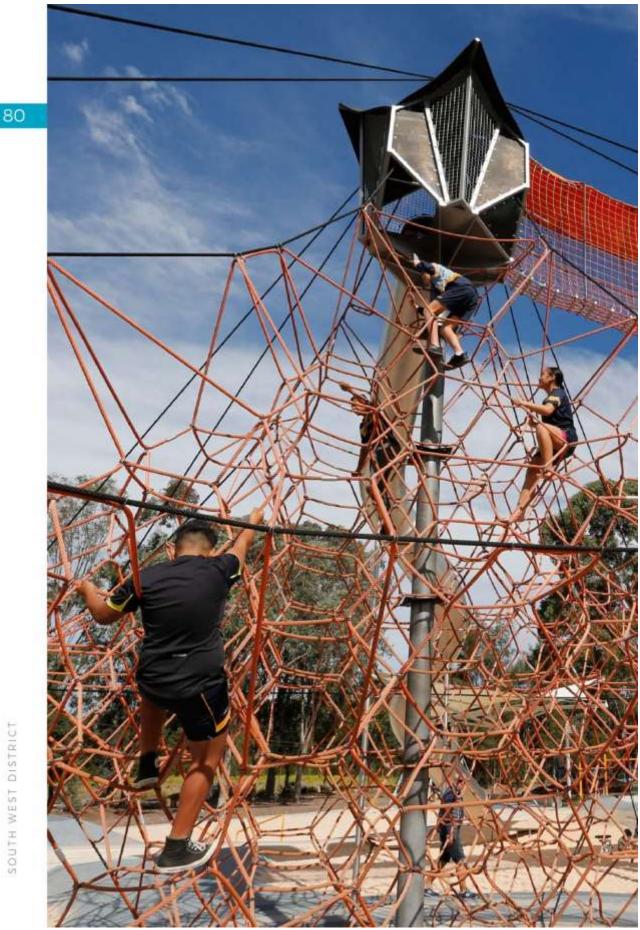
How these matters are taken into account is to be demonstrated in any relevant planning proposal.



Action P22: Develop better understanding of the value and operation of employment and urban services land

In order to better understand the contribution of employment and urban services land to the District's productivity, liveability and sustainability we will work with Councils to further develop our research and understanding of how the District's employment and urban services land operate, the range of uses they support including their industry and supply chains, their interdependencies, key constraints, and opportunities to be improved. In doing this, the particular characteristics and value add of these locations will be identified to inform the preparation of appropriate planning. **ORD02**

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4 A Liveable City

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City areas with flourishing diversity sprout strange and unpredictable uses and peculiar scenes. But this is not a drawback of diversity. This is the point of it.

Jane Jacobs

The South West District is a mosaic of very different local places: from the established suburbs in Fairfield and Liverpool; to the new urban areas in Camden and rural residential living in Wollondilly; from the major heritage cities of Liverpool and Campbelltown; to thriving, vibrant, multicultural hubs like Cabramatta; and historic country towns such as Camden and Picton.

The District has many significant assets and attributes that make it liveable - these assets are why people come to live here and why they want to stay. For the young people to continue to call the District home, we need to continue to offer, and improve, the kind of lifestyle elements that make the District a great place to live.

The District's rich natural environment and visual landscapes of woodlands and ridgelines, creeks and rivers are like nowhere else in Greater Sydney. They provide a framework for the District's range of lifestyles and the opportunity to have the 'best of both worlds' – a rural lifestyle with city benefits.

The diversity and complexity of the South West District's communities is valued by residents and needs to be maintained and enhanced through the coming period of growth and change. Our aim is to conserve and enhance quality of life and local identity. We want to collaborate with communities and stakeholders to make the most of public investment in the District's infrastructure and urban places and address the issues that people tell us are important to them.

We must realise this within the context of significant population growth and, with this, the creation of new places.

We need to do more than just provide new houses but also provide new places with high quality urban design – suburbs and neighbourhoods that offer a diversity of homes, streetscapes, jobs and things to do – the kind of places where no street looks the same, and where people feel a sense of belonging because they have many places to interact with each other.

This will require a focus on the type of housing that the District needs as it grows - not just in numbers, but the diversity that offers different price points and can help improve affordability.

It is also important in renewal areas where we want to provide a greater mix of social and private housing so that our communities are mixed and cohesive.

We need to supply housing in the places where people want to live, which will allow them to remain in their communities through the different stages of life.

As the District grows, we need to plan upfront to support new residents with the right mix of schools, health services, community facilities, walking and cycling connections. This needs to be achieved in a way that creates safe, engaging places for everyone.

This draft District Plan looks at how we can implement the liveability goals of A Plan for Growing Sydney as well as the priorities from Our Vision - Towards Greater Sydney 2056. In particular we draw on the goals that seek to develop a city of housing choice, with homes that meet our needs and lifestyles in a great place to live (Coal 2), with communities that are strong, healthy and well connected (Coal 3).

Our planning for Greater Sydney aspires to maintain and improve residents' quality of life by providing more housing and employment opportunities and the Infrastructure that makes these opportunities accessible. We can help to create healthy and connected communities if we collaborate across the private and public sector and with communities, and base our decisions on quality evidence.

The South West District Liveability Profile

Our South West District Liveability Profile describes the District's population in terms of its existing characteristics, age, gender, country of birth, family type and how we expect these characteristics to change over time. This informs the way we plan for each group's unique needs.

You can view the Liveability Profile by visiting www.greater.sydney. We will continue to increase and build the profile so as to improve the quality and range of social data that forms the basis of smart strategic planning.

The Liveability Framework

Greater Sydney's Liveability Framework forms a foundation for planning and infrastructure delivery to be driven by consideration of people's needs at all stages of life. Use of the Framework to inform strategic plans would allow governments, planning authorities and services providers to work together across a common framework to plan for and enhance the District's liveability as our population grows.

The Liveability Framework places our physical and mental health and wellbeing at the forefront as Greater Sydney transitions from suburban to more urban places. It relies on strong partnerships between State agencies, local government, non-government organisations, private providers and communities.

Nine liveability outcomes have been derived from international best practice and refined through consultation with councils, interest groups and the community to form the Framework. Healthy liveable places demonstrate:

- housing choice by supporting affordable and appropriate housing for all
- urban design excellence by delivering high quality design that supports community safety, health and wellbeing, and enhances community assets and character
- connected communities by supporting walking, cycling and public transport movement between destinations
- sense of belonging and local identity by creating great places that are socially inclusive and promote respect and feelings of belonging
- social infrastructure provision by promoting an integrated approach to social infrastructure that includes health care, education, fresh food access, public open spaces and other community/cultural facilities.
- community engagement delivered across all liveability outcomes by promoting community empowerment and ownership in shaping resilient cities
- culture and innovation by celebrating and promoting creative arts, digital technology, culture and innovation
- diversity of job opportunities by providing access to a range of jobs and learning/skills development
- environmental quality by managing the quality of and access to the natural environment

This draft District Plan addresses the need for good access to education, health, community and emergency services for people through every stage of their life. It takes a design-led planning approach that requires urban design that focuses on people in order to create great places to meet, work, exercise and socialise. This requires a focus on the whole picture: the streets, the neighbourhoods, the centres and suburbs that will be real, attractive places and provide a great way of life for new and existing residents.

We want people to be able to access public spaces, shops, parks, sports and cultural facilities by foot or bicycle.

We want to plan for these places in a way that respects the District's natural and cultural heritage and recognises the continuing of traditional Aboriginal culture in the South West District.

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4.1 The South West District's people

Many factors make the South West District a great place to live. The South West is home to unique centres with diverse cultural and social history as well as newly developing centres and communities like Oran Park in the South West Priority Crowth Area.

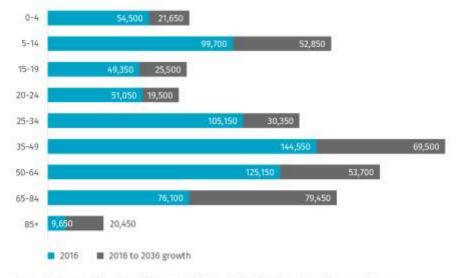
We classify the District's larger centres – Campbelltown-Macarthur and Liverpool – as strategic centres. These larger hubs of jobs and activity contrast with heritage towns like Camden and Picton. The District's wellloved bushland recreation areas like Simmos Beach and Nattai National Park complement significant recreation reserves like the Western Sydney Parklands.

Community consultation in 2015 revealed that 56% of residents interviewed in the South West District considered the liveability of their area to be either 'excellent' or 'very good. People particularly enjoy the range of indoor and outdoor recreational environments. Residents noted that they chose to live in the South West for cost of living and housing affordability, safety, and proximity to family and friends. Each of these factors is fundamental to social inclusion and quality of life. Connections within a community to people and services, jobs and housing choice are what make a locality a great place to live.

By 2036, the District's population is projected to grow by an estimated 373,000 people, to around 1.088 million. This 2.1% annual average growth rate compares to projected growth of 1.6% for Greater Sydney as a whole.

To accommodate these new residents, we need to plan for new housing and new employment opportunities. As the District grows, we need to use this as an opportunity to renew and enhance our centres and places, and provide better access to health and education services, community infrastructure, parks and playgrounds.

Figure 4-1: South West District projected population growth by age group (2016 - 2036)



Source: Department of Planning and Environment, 2016 New South Wales State and Local Government Area Population and Household Projections and Implied Dwalling Requirements 2016 to 2036. NSW Government, Sydney DISTRICT

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Table 4-1: South West District projected aggregate and proportional growth (2016 - 2036) by local government area by key age group

	Aggregate Growth 2016-2036						Proportional Growth 2016-2036						
	ব	1.4	5-19	20-64	65-84	85+	Total growth	<1	1-4	5-19	20-64	65-84	85+
Camden	2.070	8.280	30,300	79,600	19,100	4.350	143.700	177%	177%	169%	16496	2.55%	378%
Campbelltown	730	2.920	15.600	29.250	15.800	4.550	68.850	28%	28%	46%	30%	90%	253%
Fairfield	-140	-560	3,600	-2,050	15,150	4,450	20,450	-5%	-5%	9%	-296	6196	125%
Liverpool	1,420	5.680	24,100	56.200	23,750	5,550	116.700	4296	42%	53%	4496	117%	218%
Wollondilly	250	1.000	4,750	10,050	5,650	1.550	23,250	3496	3496	4496	35%	97%	258%
SOUTH WEST	4,330	17,320	78,350	173,050	79,450	20,450	372,950	40%	40%	53%	4196	104%	21296
GREATER SYDNEY	17,080	68.320	333,450	824,100	386,800	110.650	1,740,400	26%	26%	40%	29%	7196	12496

Source: Department of Planning and Environment. 2016 New South Wales State and Local Government Area Population and Household Projections and Implied Dwelling Requirements 2016 to 2036. NSW Covernment. Sydney.

4.1.1 South West District population age profile

We look at the District's changing age profile to understand how and where we need to plan for people at different stages of their life.

The distribution of population growth by age group in the District is projected to differ from Greater Sydney averages. For example, we expect to see higher rates of growth for bables (<1 year old) and preschool-aged children (1-4 years old) in the District, and around 53% growth in the number of school-aged children.

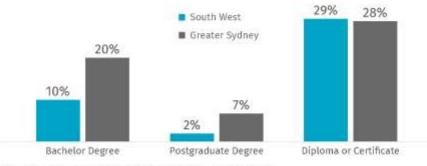
The proportional growth of working aged people will be greater than that expected for Greater Sydney, while the proportional growth in the number of people over 85 is likely to be much higher than that expected for Greater Sydney (Table 4-1).

4.1.2 South West District population characteristics

A higher proportion of the South West District's working population hold vocational qualifications (Including Diploma or Certificate) than the Creater Sydney average. Conversely, a lower proportion of residents hold a university qualification (Bachelor Degree or Post Craduate Degree) compared to the Creater Sydney average.

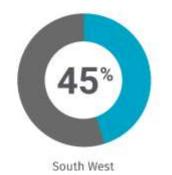
Average median household incomes are lower in the District than those across Creater Sydney, and there are significant spatial variations in socio-economic disadvantage. Our Liveability Profile shows that some neighbourhoods experience greater disadvantage, particularly in the Campbelltown and Liverpool local government areas.

Figure 4-2: South West District higher qualification attainment (2011)



Source: Australian Bureau of Statistics. 2011 Census of Population and Housing

Figure 4-3: South West District English as a second language



Source: Australian Bureau of Statistics, 2011 Census of Population and Housing

Up to 45% of the District's housholds speak a language other than English at home, higher than the Greater Sydney average of 37%.

Aboriginal and Torres Strait Islander people comprise a higher proportion of total population than found across Greater Sydney (1.8% compared with 1.1% respectively). The majority of Aboriginal and Torres Strait Islander people live in Campbelltown and Liverpool local government areas.

The 2011 Census identified over 34,000 people living with a disability in the South West District, and we expect that this will increase over the next 20 years as the population ages. In addition to this the 2015 Population Health Survey by the NSW Ministry of Health indicates that around 52% of the adult population in the South West District is overweight or obese. Obesity is a chronic medical condition which is associated with a range of debilitating and life threatening conditions.

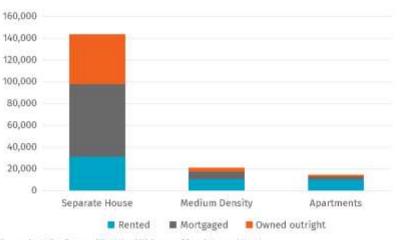
4.1.3 South West District dwelling and household characteristics

When we plan for the type of housing the District will need, we look both at the mix of housing types (for example, detached homes and apartments), as well as the household types (for example, single person households, or households with a couple and children) that exist already or are expected in the future.

This helps us to analyse how the market for different homes has changed over time and plan for different types of housing that people will need in the future.

The majority of people (78%) in the South West District live in detached houses, 12% In medium density type dwellings (including semidetached, terrace and row housing) and 9% in apartments. Most detached dwellings (78%) are either owned outright or being purchased. Around 69% of apartments and 49% of medium density type dwellings are rented.

Figure 4-4: South West District dwelling structure by tenure type (2011).



Source: Australian Bureau of Statistics. 2011 Census of Population and Housing

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The affordability of housing is an issue for people, with our community consultation finding that people in the South West District gave lower ratings to the availability of affordable housing to rent or buy and the overall cost of living.

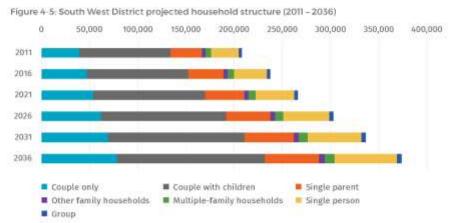
Underscoring these concerns, a recent examination of house sales between 2005 and 2015 found a significant reduction in the availability of homes considered affordable for households on moderate incomes. This used the common measure of affordability that housing costs require no more than 30% of the household budget.

In terms of future household types, we expect to see the largest aggregate growth in couples with children (+48,200) and couple only (+31,200). The strong growth in single person households (+30,300) represents an 88% increase on today's levels.

Households comprising couples with children will continue to be the dominant household type in the South West District, though the proportion is falling, especially in Fairfield Local Government Area (45% to 40%) and Liverpool Local Government Area (from 47% to 43%), The greatest aggregate increase in single person households will be in Liverpool.

While there is an increased need for all housing types in the South West District, housing that can accommodate smaller households is in the greatest demand. This needs to include more terrace, row and courtyard housing in addition to apartment buildings, all of which will provide for more affordable price points than detached dwellings.

We will also need to enable development of flexible housing types including more large homes and culturally appropriate housing that can accommodate several family groups or generations living together, as well as more accessible and adaptable housing. Our planning must ensure that there is capacity for new housing that responds to local needs and housing market characteristics and provides proximity to public transport, health, education, infrastructure and services.



Source: Department of Planning and Environment. 2016 New South Wales State and Local Government Area Household Projections and Implied Dwalling Requirements 2016 to 2056, NSW Covernment: Sydney

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4.2 Liveability priorities

This chapter outlines the liveability priorities and actions for the South West District.

The priorities are presented in two ways, Firstly, each heading outlines a priority area, and we provide context and detail to expand on the outcomes sought. Some headings cover factual issues only; these are not included the list below.

Secondly, within the broad priority areas there are, in many cases, more detailed priorities. We identify the specific purpose of these priorities in each case by detailing how they relate to strategic planning and planning proposals.

The full list of liveability priorities covered in this chapter are outlined below.

Improve housing choice

- Prepare local housing strategies
- Understand the Greater Sydney housing market and demand
- Deliver South West District's fiveyear housing supply targets
 - Deliver South West District's five-year housing targets
- Establish South West District's
- 20-year strategic targets
 Create housing capacity in
- Create housing capacity in the South West District

Improve housing diversity and affordability

- Plan for housing diversity
 Deliver housing diversity
- Support planning for adaptable housing and aged care
- Deliver affordable rental housing
- Implement the Affordable Rental Housing Target
- Support social housing
 - Increase social housing provision
- Facilitate integrated infrastructure planning -managing growth.

Coordinate and monitor housing outcomes and demographic trends

Create great places - not just building houses

- Provide design-led planning
- Plan for safe and healthy places - Facilitate the delivery of safe and healthy places
- Facilitate enhanced walking and cycling connections
- Facilitate enhanced walking and cycling connections

Foster cohesive communities in the South West District

- Conserve and enhance environmental heritage including Aboriginal, European and natural
 - Conserve heritage and unique local characteristics
- Support the creative arts and culture
 - Foster the creative arts and culture
- Create opportunities for more recreation and community facilities
- Support planning for shared spaces
 - Share resources and spaces

Respond to people's need for services developing complete communities

- Plan to meet the demand for school facilities
 - Support innovative school planning and delivery
- Plan for the provision of early education and child care facilities
- Plan for the provision of youth services
- Support the Aboriginal community
 - Provide socially and culturally appropriate services
- Support planning for health networks
- Support planning for health facilities and services
 - Support planning for health infrastructure
- Plan for emergency services
 - Support planning for emergency services
- Plan for cemeteries and crematoria
 - Support planning for cemeteries and crematoria.

Attachment 2

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4.3 Improve housing choice

All successful and growing global cities face the challenge of providing greater housing supply and choice. With Greater Sydney's robust economy, unprecedented levels of population growth and strong investment interest, demand for housing across Greater Sydney is rapidly increasing. Notable demographic change means that significant new and different forms of housing will be required in Sydney to 2036. The Commission is committed to achieving this outcome in a way that also builds a more inclusive city (particularly for the elderly and women) and a more equitable city (particularly for those entering the housing market for the first time). To achieve this the Commission will leverage existing and new infrastructure projects to enhance housing opportunities.

Key to planning for this growth is recognising that the nature of this demand varies by location, by community and by household. To meet the needs of different cultural, socioeconomic and age groups a variety of housing choices must be delivered across Greater Sydney and the South West District. This supply must be achieved through a range of housing types, tenures and price points. We refer to the range of housing choices in this draft District Plan as the housing continuum (Figure 4-6).

More specifically the housing continuum refers to all types of housing including detached dwellings, apartments, terraces and villas, it refers to different tenures including dwellings that are owned outright, mortgaged or rented. It also refers to homes occupied by single people, families, groups as well as households living in housing stress, through to people on high incomes.

Emergency shelters B Crisis eccommodation	Transitional & Supported housing	Social housing Uncluding public housing)	Affordable ventat bousing	Affordable home ownership & Shared ownership	Private market affordable housing (housing boarding housing and atalian accommodation toat.may be government subsidised)	Private market rental housing	Housing ownership
including	Government Subsidised Housing including housing provided by the government and community sector		Community Housing Sector non-market housing		M	arket Housin	9

Figure 4-6: The housing continuum

Source: Creater Sydney Commission: 2016 adapted from City of Sydney Housing Issues Paper April 2015

Our Approach to the Housing Continuum

To improve capacity across the full housing continuum, our approach aims to support and enhance:

- Delivery: creating conditions to support the supply of housing in wellplanned locations served by sufficient local and regional infrastructure
- Capacity: so that existing planning controls and new investigation areas are creating sufficient opportunity for housing supply targets by 2036
- Diversity and adaptability: the diversity of housing types including small lot housing, terraces and apartments in a variety of configurations (one, two and three+ bedrooms) and more adaptable and accessible forms of housing for older people, people with disabilities and families
- Affordability: building on the direction in A Plan for Growing Sydney by setting a target for the provision of affordable rental housing in new urban renewal and land release areas for the low and very low income households that are the most vulnerable. This also relates to supporting a supply of diverse housing types in the private market that are more affordable to key workers and moderate income households
- Social housing: the provision of social housing to meet the needs of the growing number of households requiring social housing (in 2016 there are 37,660 households in Greater Sydney on the waiting list) and to reduce homelessness.

NSW Government initiatives

Local government and State agencies are implementing policies and measures to support the delivery of housing across the continuum. Currently the Department of Planning and Environment is:

 implementing the State Environmental Planning Policy (Affordable Rental Housing) 2009, which allows for the development of new generation boarding houses in various locations with floor space incentives subject to environmental and design standards.

The Department of Family and Community Services is implementing:

- Future Directions for Social Housing in NSW, which aims to increase the number of households that transition out of social housing, using affordable rental housing as a stepping stone to the private rental market
- the Communities Plus Program. which improves diversity through mixed use renewal of existing areas of concentrated social housing
- the Social and Affordable Housing Fund, which will fund 3,000 additional social and affordable houses in its first tranche through innovative partnerships between community

housing providers, non-government organisations and the private sector. In September 2016, the NSW Government

In September 2016, the NSW Government released the discussion paper Foundations for Change – Homelessness in NSW, which aims to engage organisations and individuals to strengthen collective action to reduce homelessness. It focuses on the prevention of homelessness, rather than simply trying to manage it.

The private sector and agencies such as UrbanGrowth NSW and Land and Housing Corporation also work with councils in the South West District to improve housing choice, diversity and affordability. NSW Covernmentled projects in these areas seek to improve the quality of housing while providing a better mix of social and private housing to instil a greater sense of community.

Another important NSW Covernment partner in the housing continuum is the community housing sector. This sector has grown considerably in the last five to 10 years and plays an important intermediary role in providing housing choice. Support for this sector will bolster opportunities for people to move out of social housing and provide greater support for the most vulnerable households living in housing stress.

Our planning needs to complement and support these initiatives and projects: It is our role to work collectively across government, the not-for-profit and private sectors to find innovative solutions that can address housing affordability and diversity. This includes the provision of greater housing choice for people with a disability, and the provision of larger homes for intergenerational or group households, seniors as well as housing and aged-care options.

Figure 4-7 shows how the Creater Sydney Commission's proposed initiatives align with the current NSW government initiatives.

4.3.1 Prepare local housing strategies

To provide a comprehensive understanding of how a district or local government area responds to housing need each Council will need to prepare a Local Housing Strategy. Alternatively Councils may agree to collaborate and prepare a District Housing Strategy. These strategies are to be underpinned by the housing continuum. The requirements are set out below and detailed in the following sections.

Action L1: Prepare local housing strategies

Councils will prepare local housing strategies and need to consider:

- the planning principles and directions in A Plan for Growing Sydney
- capacity to support the five-year housing target
- capacity to support the strategic housing need of the local government area for the next 20 years
- local demographic and socio-economic characteristics
- the local housing market including the feasibility of development for different housing types
- development staging and market take-up rates and how these aligns with demand

- challenges and opportunities relating to infrastructure provision
- urban form and place making
- accessibility of housing to employment opportunities
- ways to address housing diversity that responds to the needs of the existing and future local housing market including opportunities for, and blockages to, housing diversity and adaptability
- opportunities to improve housing affordability
- the prospective displacement of existing affordable housing
- opportunities for additional capacity around strategic and district centres and other areas with good transport connectivity and service provision
- specific local market complexities including addressing ways to incentivise the provision of larger group homes, smaller homes for singles and couples only, intergenerational homes and medium density housing required by the local community
- consider ways to provide adaptable housing in accordance with design guidelines by Livable Housing Australia.

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Figure 4-7: NSW Government and Greater Sydney Commission housing initiatives

	Homelessness	Social Housing	Affordable Rental Housing	Rent.
NSW iovernment Initiatives	 Distuision Paper. Paundation for Change Homelessmets in NSW 	Ospartment of Family and Community Services Future Directions for Social Heading in NSW Communities Plus Social and Affordable Heading Fund Integrated heading developments Private, non-government, and community heading sector	State Environmental Manning Policy No.70 Affordalsis Hoasing (Revised Schemes)	Land Relians Priority Growth Anias and Priority Procincts Sevenifield Idvain molecular Transformational contributs Housing Acceleration Fund Council Reliance reasonings State Environmental Planning Policy Housing for Seniors or People with a Dissolity 2004 State Environmental Planning Policy (Milanste Environmental Planning Policy (Milanste Environmental Planning 2009 Overlaps guide for westigned to Design guide for medium durality housing
Greater Sydney Commission Proposed Initiatives		Wigs parting with Construction Place program	Alfordable Hersel (Southy Sugges for order recease) and land release areas	• Lorent Housing Distrington • Housing Distriction • Housing Manufacture

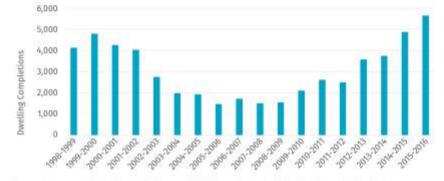
Source: Creater Sydney Cammission 2016



SOUTH WEST DISTRICT

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Figure 4-8: South West District dwelling completions (1998-99 to 2015-16)



Source: Department of Planning and Environment. 2016 Metropolitan Housing Monitor Greater Sydney Region

4.3.2 Understand the Greater Sydney housing market and demand

To better understand how we can support the supply of new housing across the continuum in the South West District we need to first understand the factors influencing Greater Sydney's housing market together with the characteristics of more local housing markets operating within the District. The Housing Market Areas Map (Figure 4-11) provides a discussion on the specific housing markets identified in the South West District. A consideration of these factors should form the starting point for any local housing strategies.

Greater Sydney is experiencing a strong housing market with record levels of housing approvals fuelled by low interest rates, sustained population growth and a strong investor interest. Research provided by the Department of Planning and Environment tells us that dwelling approvals and completions are currently at their highest levels in 16 years for Greater Sydney and the South West District is experiencing high levels of completions after a period of decline and low production.

Figure 4-8 shows historic dwelling completions and Figure 4-9 shows additional dwellings across the District in the last five years and highlights development in the vicinity of Campbelltown-Macarthur, Liverpool and Fairfield, as well as growth in the South West Priority Crowth Area.

Significant efforts in recent years by local and State government has provided substantial improvements in capacity to deliver a pipeline of development across many parts of Greater Sydney. As a consequence, the 30,200 dwellings (excluding granny flats) completed across Greater Sydney in the 2015 / 2016 financial year is now closer to the estimated number of new dwellings we need each year to meet demand (36,250 dwellings per annum) than at any point in the past 16 years.

On this basis the Department of Planning and Environment estimates that Greater Sydney needs 725,000 additional dwellings over the next 20 years and 143,000 additional dwellings in the South West District.

The Commission considers that this projection is a minimum requirement for three reasons:

- it is based on the medium population growth scenario and if current trends continue, there is a prospect that a higher growth scenario could transpire leading to greater housing demand over the 20-year period of this draft Plan
- due to past undersupply in Greater Sydney's housing market there is 'pent up' demand at particular price points adding to demand for additional housing
- there is the case for a 'contingency' to be added to the demand estimates to address the two prior reasons along with any other unforeseen changes over the next 20 year period such as potential blockages to achieving supply.

Dwelling completions for Greater Sydney in 2016/2017 are anticipated to exceed the average annual demand figure of 36,250. This exceptional rate of supply, owing to the

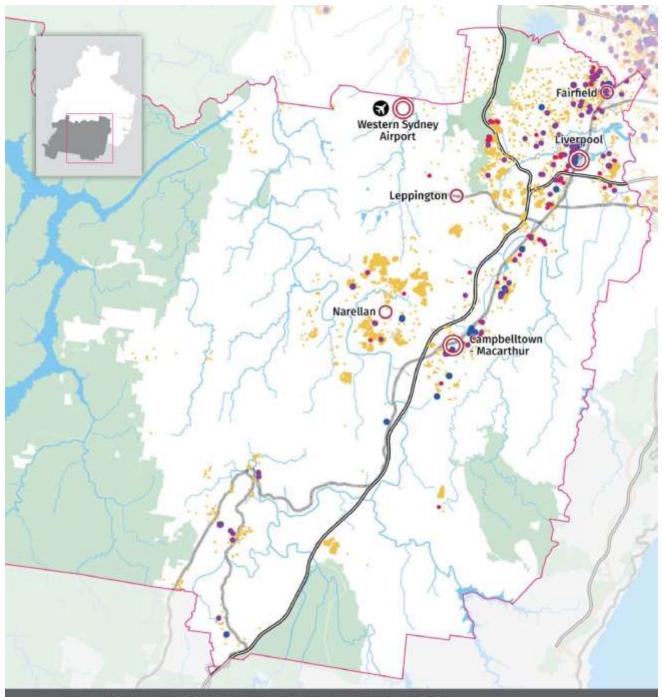
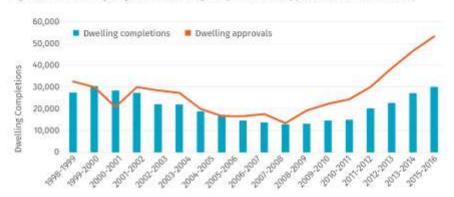


Figure 4-9: South West District dwelling completions (210-11 to 2015-16)



Figure 4-10: Greater Sydney historic dwelling completions and approvals (1998-99 to 2015-16)



Source: Department of Planning and Environment. 2016 Metropolitan Housing Monitor Greater Sydney Region

strong development pipeline, is anticipated to continue for the next few years under current market conditions. In fact, the rate of annual completions over the next few years is likely to reach the highest levels achieved since 1999/2000. Figure 4-10 shows the historic dwelling approvals and completions.

A peak of 37.800 completions per annum is possible under current market conditions. Even with this exceptional supply, this only modestly exceeds the average annual level of demand and in turn only marginally counters the undersupply of housing that occurred over the past decade.

Furthermore given the timeframes associated with bringing new capacity on line and in turn delivering supply to the market, our research indicates that the planning system will need to continue to identify areas of additional capacity to sustain these outcomes going forward. Given the scale of the challenge to maintain this over the next 20 years we will start the



Greater Sydney Housing Market Areas

Research indicates that people living in Creater Sydney generally prefer to remain within their local area when they move, with 82% of residents moving to a new home within 15 kilometres of their former residence. For this reason we have investigated what this means for the South District so that people can have greater housing choice within their District.

The assessment of these preferences showed that Greater Sydney contains 18 housing market areas. The implication of these distinct housing market areas is that providing supply in one market demand area may not satisfy demand in another. Understanding need and capacity by individual housing markets will better provide for people's preferred housing choices.

South West District Market Areas

In the South West these areas are:

- Fairfield, centred on the established suburbs of Fairfield and Cabramatta
- Liverpool, including large areas of greenfield development such as the South West Priority Land Release Area
- Bankstown Holsworthy, including four of the station precincts at Bankstown, Punchbowl, Wiley Park and Lakemba in the Sydenham to Bankstown Urban Renewal Corridor that are included in our supply forecasts;
- South West, including the South West Priority Growth Area, the proposed Greater Macarthur Priority Growth Area, Claymore Urban Renewal and Airds Bradbury Renewal Project.

The South West District also includes portions of the Penrith-Blue Mountains, Sutherland and Parramatta Housing Market Areas, though only in pockets that we consider too small to include in this plan. Instead they are addressed in the West, South and West Central District Plans respectively.

planning process to increase housing capacity opportunities in partnership with councils now.

On this basis, the Commission proposes a number of approaches to guide the process:

- a five-year supply target by local government area (in accordance with Action 2.1.1 of A Plan for Growing Sydney)
- a 20-year strategic housing target by local government area that allows for the planning for sustained capacity over the period of this draft Plan
- the identification of new areas for housing to achieve these targets.

Each of these initiatives and how they relate to the South West District are explored further in the next section.

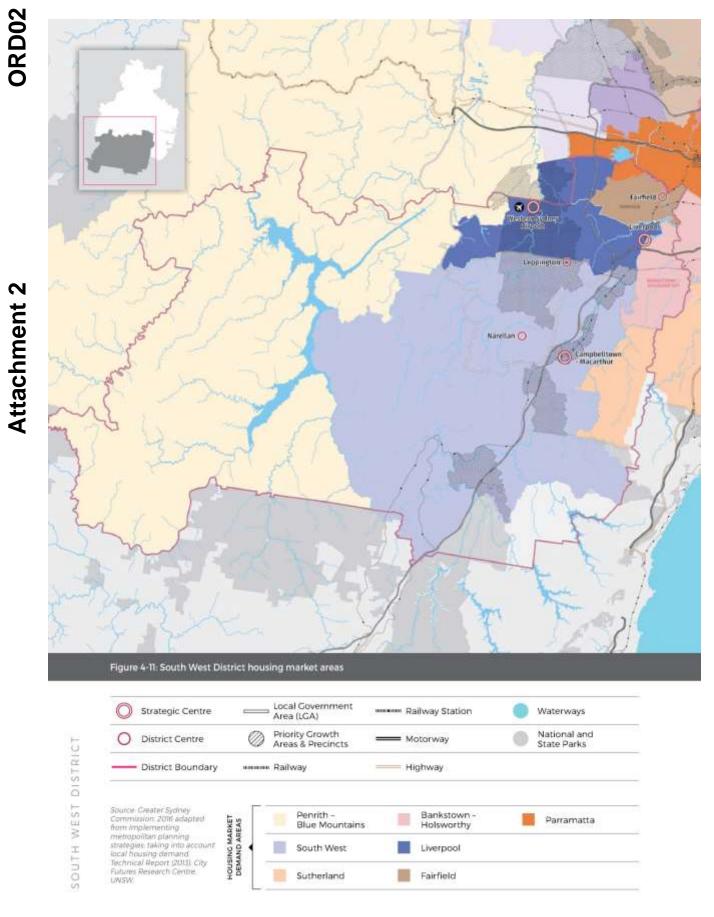
4.3.4 Deliver South West District's five-year housing targets

The Department of Planning and Environment's projections of population and household growth in South West District for the next five years translates to a dwelling need of 30,150 dwellings. Owing to the current strong housing market, our testing using the Urban Feasibility Model - the Department of Planning and Environment's tool to understand housing capacity and the economic feasibility of residential development - confirms there are opportunities in the South West District to deliver beyond this minimum dwelling need in the short term. This is important to address pent up demand that has resulted from past undersupply. It is also important to address housing choice and affordability.

Therefore the Commission has identified a five year housing target that is based on both the District's dwelling need and the opportunity to deliver supply. The five year target relates to housing including traditional detached and attached houses, apartments and granny flats.

Fairfield has recently seen a substational increase in the number of granny flats.

The realisation of the housing targets relies on actions by the relevant planning authorities (from enabling planning controls through to development assessment), infrastructure provision and the continuation of current market conditions and industry's critical role in delivery. SOUTH WEST DISTRICT



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Table 4-2: Five-year housing targets by local government area in the South West District

Local Government Area	2016-2021 Housing Target
Camden	11,800
Campbelltown	6.800
Fairfield	3,050
Liverpool	8.250
Wollondilly	1.550
South West District Total	31,450

Source: Greater Sydney Commission 2016

NSW Government programs that increase capacity and supply including Priority Precincts, UrbanGrowth Transformation and Communities Plus projects support these targets.

In particular in Camden and Liverpool local government areas the Priority Growth Area programs led by the Department of Planning and Environment generate significant capacity for housing supply. This includes precincts at:

- Austral
- Leppington North
- Leppington (Stage 1)
- East Leppington
- Edmondson Park
- Oran Park
- Catherine Fields (Part)
- Turner Road

Other land release areas that are delivering housing supply outside growth areas include:

- Elderslie
- Harrington Grove
- Manooka Valley
- Spring Farm
- Blairmont
- Clenfield Road
- St Helens Park
- Aerodrome
- Pleasure Point
- Prestons
- South Hoxton Park
- Camden Park

The NSW government is also accelerating the capacity of housing supply across the District through the following projects:

- Claymore Urban Renewal
- Bonnyrigg Living Communities Project
- Airds Bradbury Renewal Project

Monitoring the realisation of these new homes in the South West District will help inform the preparation of the Commission's Annual Infrastructure Priority list and subsequent advice to the NSW Government.



Liveability Priority 1: Deliver South West District's five-year housing targets

It is a priority of the draft District Plans for Councils to deliver these five-year housing targets. Councils need to:

- plan to provide sufficient capacity and monitor delivery of the five-year housing targets
- liaise with the Commission to identify barriers to delivering additional housing in accordance with the targets

How these matters have been taken into account need to be demonstrated in any relevant planning proposal.

4.3.5 Establish South West District's 20-year strategic targets

Notwithstanding the existing strength of Creater Sydney's housing market, planning has a central role in ensuring sufficient capacity is created to support the delivery of a minimum of 725,000 additional new dwellings over the next 20 years across Creater Sydney.

This significant challenge requires sustained efforts by all councils. Given the timescales associated with development, a longer-term outlook and capacity-based approach is needed.

A capacity-based approach creates the opportunity to address a range of factors including:

 opportunities to address pent-up demand across Greater Sydney consistent with the estimates of the NSW intergenerational

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Report that there is unmet demand for a further 100,000 dwellings across NSW above the projection of dwelling need by the Department of Planning and Environment

- the prospect of the higher population projections for Greater Sydney being realised (the estimated demand for 725,000 additional dwellings by 2036 is based on the medium population projection scenario)
- the need to improve housing choice together with opportunities for people to live locally
- the productivity benefits of additional housing supply, consistent with the calculations provided by NSW intergenerational Report
- the need for a contingency to support steady supply across each of Creater Sydney's districts in the case of unforeseen blockages
- that not all capacity built into the planning system is realised as development, nor are all approvals commenced or completed.

Councils should therefore start considering now, through the preparation of local housing strategies how additional capacity can be created from which the private and not for profit sector can deliver supply and housing choice. These housing strategies are to meet the District's 20-year housing target as a minimum.

In Wollondilly, Camden, Campbelltown and Liverpool local government areas there is significant capacity for housing supply into the long term generated through the Priority Crowth Area programs led by the Department of Planning and Environment. These councils have an important role and focus on coordinating with State government in the delivery of these new communities. The opportunities for urban renewal and medium density are greatest along the existing rail corridors and in the northern part of the District Table 4-3: South West District Minimum 20-Year Housing Targets 2016 - 2036

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	Minimum 20 Year Housing Target 2016-2036
th West District*	143.000
ater Sydney Total	725,000

Source: Department of Planning and Environment, 2018 NSW State and Local Covernment Area Population and Household Projections and Impleed Dwelling Projections 2016-2036, NSW Covernment, Sydney

To ensure that new housing capacity opportunities leverage current and future infrastructure provision while improving Greater Sydney's equity and liveability, we will work with local and State Government, as well as communities and industry, to identify new and expanded opportunities for housing capacity in proximity to existing and planned infrastructure.

Once identified these areas can be incorporated as investigation areas within the final District Plans and the new Regional Plan for Greater Sydney to be developed in 2017. This process will also help us to establish a new and specific 20-year strategic target to 2036 for each local government area in 2017 and continue to inform our infrastructure priority list and advice to government.

The testing and progression of these areas through more detailed planning should then be undertaken via the preparation of council's local housing strategies and incorporate the Department of Planning and Environment's priority precinct program and other programs such as UrbanGrowth NSW and Communities Plus.

A framework to guide this process is set out in the following section and Section 4.2.6 provides preliminary analysis of these areas based on our initial research, Action L3 provides further guidance on where to focus investigation areas.

GSC Action L2: Identify the opportunities to create the capacity to deliver 20-year strategic housing supply targets

The Commission will:

- prepare 20-year strategic housing targets and include these in the final District Plan and the review of A Plan for Growing Sydney
- work with councils and the Department of Planning and Environment to identify investigation areas for additional housing capacity to form part of local housing strategies.

Strategic guidance for new housing capacity

A Plan for Growing Sydney's Coal 2 is for a city of housing choice, with homes that meet our needs and lifestyles. The Directions included:

- accelerate housing supply across Creater Sydney
- accelerate urban renewal across Greater Sydney - providing homes close to jobs
- Improve housing choice to suit different needs and lifestyles
- deliver timely well planned land release precincts and housing

Since the release of A Plan for Growing Sydney the projections for growth have been revised upwards. The projections include multiple scenarios with the middle scenario of 725.000 additional dwellings over 2016-2036. This is an increase of 9% from A Plan for Growing Sydney owing to revised population projections. The projections for a high growth scenario require an additional 830,000 dwellings.

There is a need to accelerate housing supply across Greater Sydney to accommodate new housing growth while also responding to housing affordability. While the planning system cannot directly build new homes, we have a key role to play in creating opportunities for new housing in the right locations. We refer to this as 'capacity'.

To do this, we need clear criteria as to where additional capacity needs to be located. Our vision for accommodating homes for the next generation is intrinsically linked to planning for, and integration with, new infrastructure and services. We identify the opportunities to do this in three ways

Urban renewal

Urban renewal provides opportunities to focus new housing in existing and new centres with frequent public transport that can carry large numbers of passengers – meaning that more people can live in areas that provide access to jobs and services.

A Plan for Crowing Sydney identifies possible urban renewal corridors. These opportunities need to be investigated further now to determine their ability to provide capacity for new housing in the medium (five to 20 years) and longer (20+ years) term. The need for this additional capacity is greatest in the North and Central Districts.

In addition to the general guidance in A Plan for Growing Sydney, we propose the following criteria for investigating urban renewal corridors:

- alignment with investment in regional and district infrastructure. This acknowledges the catalytic impacts of infrastructure such as Sydney Metro Northwest and Sydney Metro City & Southwest, NorthConnex. WestConnex, Sydney CBD and South East Light Rail, Parramatta Light Rail and Northern Beaches Hospital and any other future projects committed to by the NSW Covernment. It also acknowledges the opportunities created by enhancements to existing infrastructure.
- accessibility to jobs, noting almost half of Greater Sydney's jobs are in strategic and district centres.
- accessibility to regional transport, noting that high-frequency transport services can create efficient connections to local transport services and expand the catchment area of people who can access regional transport within a decent travel time.
- the catchment area that is within walking distance of centres with regional transport.
- the feasibility of development, including financial viability across a range of housing configurations (one, two and three+ bedrooms) and consistency with market demand.
- proximity to services including schools and health facilities.
- consideration of heritage and cultural elements, visual impacts, natural elements such as flooding, special land uses and other environmental constraints.
- consideration of local features such as topography, lot sizes, strata ownership and the transition between the different built forms.
- delivery considerations such as staging, enabling infrastructure, upgrades or expansions of social infrastructure such as local schools, open space and community facilities.

Medium density infill development

Medium density development

within existing areas can provide a greater variety of housing sizes to suit individual household needs, preferences and budgets.

Many parts of suburban Greater Sydney that are not within walking distance of regional transport (rail, light rail and regional bus routes) contain older housing stock. These areas present local opportunities to renew older housing with medium density housing.

The Department of Planning and Environment's Draft Medium Density Design Guide shows how this local scale renewal can promote good design outcomes. The planning regulations that support delivery are set out in the Department's proposed Medium Density Housing Code.

Councils are in the best position to investigate opportunities for medium density in these areas, which we refer to as the 'missing middle'. Medium density housing is ideally located in transition areas between urban renewal precincts and existing suburbs, particularly around local centres and within the one to fivekilometre catchment of regional transport where links for walking and cycling help promote a healthy lifestyle.

New communities in land release areas

Greater Sydney's north west, west and south west contain land for new communities. The emerging shape of these new communities has shifted in recent years to take advantage of investment in infrastructure such as Sydney Metro Northwest or the rail line to Leppington.

Opportunities for more intense development around centres has seen a greater variety of housing types including apartments and terraces. A greater variety of housing choice is supported by housing diversity amendments to the State Environmental Planning Policy (Sydney Region Growth Centres) 2006, in the last decade there has been a major shift towards smaller lots which has resulted in a significantly higher dwelling yield.

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Land release areas offer significant medium and long-term capacity in Greater Sydney's north west and south west.

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4.3.6 Create housing capacity in the South West District

Over the last 10 years, a range of local government studies have investigated opportunities to increase capacity for housing supply in the South West District, including:

- Camden Residential Strategy (2008)
 Campbelltown Residential
- Development Strategy (2014)
- the draft Fairfield Residential Development Strategy for the east of the local government area (2014)
- Liverpool Residential Development Strategy (2008)
- Wollondilly Growth Management Strategy (2011).

A range of areas in the South West District are under investigation or already in the planning phase as part of the Priority Growth Area programs led by the Department of Planning and Environment. These will help to increase capacity beyond the five-year housing target.

The investigation of land for housing in the Kemps Creek, North Bringelly and North Rossmore areas in the Liverpool Local Government Area was originally undertaken as part of the South West Priority Growth Area. These precincts are now part of the Western Sydney Priority Growth Area and the City Deal for Western Sydney area. The precincts here are under investigation and will provide capacity for housing supply in the medium and long term.

Precincts in the South West Priority Growth Area that provide capacity for housing supply in the medium and longer term include

- Marylands
- Catherine Field North
- Catherine Field
- Lowes Creek
- Bringelly

Significant capacity is also being established through the Priority Growth Areas:

- Greater Macarthur Priority Growth Area including the Glenfield to Macarthur urban renewal corridor and land release precincts at Menangle Park. Mount Glead and West Appin Urban Investigation Area
- Wilton New Town Priority Growth Area



Action L3: Councils to increase housing capacity across the District

in order to increase housing supply and choice councils are required to implement the following actions and where appropriate incorporate into local housing strategies:

Camden Local Government Area

The Council will:

- monitor the delivery of Camden's fiveyear housing target of 11,800 dwellings, recognising significant growth in the South West Priority Growth Area at Oran Park, Gregory Hills and Catherine Fields and other active greenfield areas
- continue to progress work on the South West Priority Growth Area with adjoining councils and the Department of Planning and Environment
- should the need for additional housing capacity be identified investigate opportunities for additional housing at local centres close to transport in the short to medium term that may assist in addressing housing diversity.

Campbelltown Local Government Area

The Council will:

- monitor the delivery of Campbelltown's five-year housing target of 6,800 dwellings, recognising significant growth in stateled growth areas at Edmondson Park, Leppington and Leppington East
- continue to progress work on the Greater Macarthur Priority Area and in partnership with Wollondilly Council and the Department of Planning and Environment.
- continue to progress work on the South West Priority Growth Area with adjoining councils and the Department of Planning and Environment
- continue to progress work with Land and Housing Corporation projects including on the Airds Bradbury and Minto Renewal Projects with the Department of Family and Community Services

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Fairfield Local Government Area

The Council will:

- monitor the delivery of Fairfield's fiveyear housing target of 3,050 dwellings recognising the existing opportunities under current planning controls
- progress the current program to implement Residential Development Strategy East to support additional housing
- progress work on the Bonnyrigg Living Communities Project
- in the medium term, investigate further local opportunities to address demand and diversity in and around local centres, in infill areas and at locations close to transport.

Liverpool Local Government Area

- The Council will:
- monitor the delivery of Liverpool's fiveyear housing target of 8,250 dwellings recognising feasibility issues within the area
- investigate local opportunities to address demand and diversity in and around local centres and infill areas and at locations close to transport
- continue to progress work on the South West Priority Growth Area with adjoining councils and the Department of Planning and Environment
- continue to progress investigations in the Western Sydney Priority Growth Area in partnership with the State and Federal Government.
- work with Land and Housing Corporation to progress delivery of Community Plus projects at Liverpool and Warwick Farm.

Wollondilly Local Government Area

The Council will:

- monitor the delivery of Wollondilly's fiveyear housing target of 1.550 dwellings recognising proposals progressing in Picton, Tahmoor and Thirlmere
- should the need for additional housing capacity be identified investigate local opportunities to address demand and diversity in and around local centres and infill areas
- continue to progress work on the Greater Macarthur Priority Area in partnership with Campbelltown Council and the Department of Planning and Environment
- continue to progress work on the Wilton New Town Priority Growth Area In partnership with the Department of Planning and Environment.

4.4 Improve housing diversity and affordability

Quality of life relies on how connected people feel within society and how cohesive and safe their community is. Many people want to stay in the area where they have always lived, regardless of their stage of life. This keeps them connected to friends and family, CPs, services, community facilities and local clubs. Our planning can help to facilitate this, by providing a mix of all the different types of housing people need. This is known as housing diversity.

4.4.1 Plan for housing diversity

Of the new homes built over the last five years, detached homes were the dominant type of new housing, except in the Fairfield Local Covernment Area, where more multi-unit developments, such as apartment buildings were constructed. The proportion of medium density dwellings and apartments is growing in Campbelitown and Liverpool.

Where dwelling stock is mostly detached and the ageing population is expected to grow, there will be significant growth in demand for smaller homes. The South West District's increasing proportion of older people and people with a disability will require the delivery of additional smaller homes, group homes, adaptable homes and aged care facilities, recognising that the ability for people to adapt their existing housing is essential as they age and transition through life. More medium density row, terrace and villa homes are also required to provide greater diversity.

Planning for a diversity of housing needs to first consider the nature of existing housing stock (dwelling type or bedroom mix) and current and future needs. It then needs to consider the commercial feasibility of different housing types – for example, the financial viability of different housing types such as studios compared to three-bedroom apartments - as these can vary greatly in different areas.

We need innovative responses to feasibility barriers, particularly in areas where demand for smaller homes is combined with low floor space ratios and/or mostly detached dwellings, creating a barrier to building medium density housing. Some planning controls inhibit the development of larger intergenerational or group homes.

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Due to planning context and recent economic conditions there has been a reasonable supply of apartments in Liverpool and Fairfield local government areas and this is expected to continue. This can provide transitional housing for seniors and more affordable homes for young people: however, they do not supply the full range of housing types. More medium density row, terrace and villa homes are also required to provide greater diversity. In addition, the South West District's increasing proportion of older people and people with a disability will require the delivery of additional smaller homes, group homes, adaptable homes and aged care facilities.

This projected growth in people aged 65+ in the South West District will also result in a proportional increase in demand for health and community services together with cultural activities that facilitate continued social inclusion. The ability to age in place, and in community, is fundamental to liveability, as it allows people to maintain established connections with neighbours, friends and family, and importantly, with health and community services.

A recent review of the Department of Planning and Environment's Apartment Design Guidelines provides consistent planning and design standards for apartments across NSW. The Department of Planning and Environment has prepared similar guidance for medium density housing.

Updated data on housing completions and types, housing market areas and demographic change will drive more appropriate planning responses.

Councils should consider the needs of the local population base in their local housing strategy and how to align local planning controls and good design outcomes for different types of housing.



Action L4: Encourage housing diversity

To encourage housing diversity the Department of Planning and Environment will:

- develop a toolkit to support the preparation of local housing strategies
- provide housing data to the development sector, councils and financiers to help them to understand the existing housing mix provision and meet the appropriate housing mix.

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Liveability Priority 2: Deliver housing diversity

Relevant planning authorities should consider the needs of the local population base in their local housing strategy and how to align local planning controls that:

- address housing diversity that is relevant to the needs of the existing and future local housing market
- deliver quality design outcomes for both buildings and places.

How these matters have been taken into account need to be demonstrated in any relevant planning proposal.

4.4.2 Support planning for adaptable housing and aged care

Our planning should support adaptable housing that can be easily modified to become accessible to accommodate people who are aging or living with a disability. Adaptable housing can better accommodate these needs where it conforms to guidelines published by Livable Housing Australia. These guidelines relate to good housing design and adaptability and set out features that create long-term homes for the whole community, regardless of age, ability or changing life circumstances.

The best way to provide seniors housing and aged care is to co-locate them in places that have a mix of different uses and services, with good quality footpaths and pedestrian connections that make it easy for people to meet their day to day needs, or visit health services and community and cultural facilities. These places also need adequate parking for in-home care visitation services.

4.4.3 The Affordable Housing Challenge

The difference between housing affordability and Affordable Rental Housing

This draft District Plan uses two different but interrelated terms. Housing affordability is a broad term that we use to describe the challenges people across a range of income groups experience in finding affordable accommodation to rent or own.

If a household is spending more than 30% of their income on housing costs it is likely to impact their ability to afford other living costs such as food, clothing, transport and utilities. Because of this, these households are described as being in 'housing stress' and in need of affordable housing options.

In contrast Affordable Rental Housing is a specific term that we use to describe our approach to addressing the gap in housing provision for those on low and very low incomes.

The Greater Sydney housing market is recognised as one of the least affordable in the world. In the last decade alone, the ratio of house prices to incomes has continued to grow while median rents have increased in real terms. Our stakeholder engagement identified housing affordability as a key challenge for the South West District and more broadly for Greater Sydney.

This challenge is particularly acute in established areas undergoing urban renewal and gentrification, but is also evident in land release development. Development provides additional housing but can also reduce the affordability of housing and displace low income households.

More broadly, the provision of affordable housing across a range of tenures, types and price points is more than a liveability priority. Internationally, the provision of more affordable forms of housing is recognised to have notable productivity benefits. One London-based study found that over £1 billion a year would be lost in potential extra economic output if London failed to meet the affordable housing needs of its residents. For this reason, this draft District Plan identifies a range of measures to improve affordability across the housing continuum. We want to encourage the supply of housing with a focus on the type of housing that the District needs as it grows, not just in numbers, but also in the diversity of housing types and sizes that offers different price points and can help improve affordability. However, housing supply and diversity are only part of the solution, and an Affordable Rental Housing target complements these approaches to the affordable housing challenge,

A target also complements other government initiatives to address affordability across the housing continuum that include the Department of Family and Community Services Social and Affordable Housing Fund and Communities Plus initiatives.

In addition, implementation of the Affordable Rental Housing target outlined here does not impede the operation of other existing planning controls that address affordable housing such as *State Environmental Planning Policy* 70 -*Affordable Housing (Revised Schemes*) and *State Environmental Planning Policy (Affordable Rental Housing) 2009.* This target does not preclude councils from negotiating additional affordable housing for moderate income households, nor does it affect existing planning mechanisms that secure affordable housing across the full income range, such as those in the City of Sydney or Willoughby.

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4.4.4 Deliver Affordable Rental Housing

Affordable Rental Housing Targets

This draft Plan proposes an Affordable Rental Housing Target that builds on Action 2.3.3 of A Plan for Growing Sydney. It requires State and local governments to create affordable housing within governmentled urban renewal projects. Our approach seeks to give greater clarity to councils and the development industry with regards to implementing Action 2.3.3.

While affordable rental housing targets are not new to Greater Sydney, to date the approach in significant developments such as Sydney Olympic Park, Rouse Hill, Redfern and Green Square has not been consistent. Our approach will be transparent, and tailored to the urban economics of the area in question so as not to hinder housing supply outcomes, and to meet the needs of Greater Sydney's most vulnerable.

The implementation of an Affordable Rental Housing target complements other approaches to the housing affordability challenge, such as increasing the supply of homes across Greater Sydney (as set out in the previous section of this plan) and assisting households that require government support via social housing.

Low and very low income households need the greatest help in securing affordable housing options. Recent research by the Australian Housing and Urban Research Institute found that the group of households most likely to be in long-term housing stress are couples with children (particularly those aged between 35 and 54) and households with a family member with a disability. Recent research estimates that Greater Sydney requires at least 4,000 to 8,000 additional affordable dwellings per annum to meet the needs of this income group.

Our approach to affordable rental housing has therefore been designed to meet the needs of Sydney's most vulnerable to:

- provide additional rental opportunities (in urban renewal and land release areas) in light of declining rental affordability across Greater Sydney
- support residents transitioning out of social housing

 provide housing opportunities closer to employment centres that will, in turn, reduce pressure on transport infrastructure.

Who is eligible for housing provided through this Affordable Rental Housing Target?

Affordable housing is defined under the EP&A Act as housing for very low income households, low income households or moderate income households.

Low and very low income households are the most vulnerable to housing stress because proportionally, they have less money for living costs once they have paid their housing costs.

This draft District Plan identifies the most vulnerable households as eligible for housing secured by Affordable Rental Housing Targets and defined by the income groups in the table below.

Household income	% of median Sydney income	2016/17 income range		
Very low	< 50%	< \$42,300 per annum or \$813 per week		
Low	50% - 80%	up to \$67.600 per annum or \$1,300 per week		

People on moderate incomes also experience housing stress and often work in key service areas such as health and education. We will support housing affordability for these groups more generally by providing greater housing choice a mix of types and price points as discussed in section 4.3.1.

The Affordable Rental Housing Target therefore aims to:

- be directed to eligible households on low and very low incomes whose housing needs are not met by the market
- support a mix of household types within communities
- support the transition out of social housing
- support development of the community housing sector.

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Liveability Priority 3: Implement the Affordable Rental Housing Target

Building on Action 2.3.3 of A Plan for Growing Sydney, when preparing planning proposals or strategic plans for new urban renewal or greenfield areas, the relevant planning authority will include an Affordable Rental Housing Target as a form of inclusionary zoning.

A target of 5% to 10% of new floorspace will be applied at the rezoning stage so that it can be factored into the development equation:

- within areas that have been shown, via a local housing strategy, or another form of appropriate research, to have current or future need for affordable rental housing
- to applicable land within new urban renewal or land release areas (government and private) subject to development feasibility assessed at a precinct scale
- to all new floor space (above the existing permissible floor space)
- In addition to local and State development contributions and cognisant of any public or private subsidy for affordable rental housing provision
- to provide a range of dwelling types including one, two and three+ bedroom homes
- in accordance with any relevant guidance developed by the Commission and Department of Planning and Environment.

The Affordable Rental Housing dwellings will be secured by the relevant planning authority and passed onto a registered Community Housing Provider to manage, further developing this emerging sector of the economy.

In this regard, we encourage the NSW Covernment to bring forward its own land to maximise affordable housing and Affordable Rental Housing.

How these matters have been taken into account need to be demonstrated in any relevant planning proposal.



Action L5: Independently assess need and viability

We will work with industry, community housing providers and the Department of Planning and Environment to enable clear and consistent implementation of the target that is cognisant of flow on housing supply implications.

Where required, we will act independently to verify the development feasibility of a nominated target. We will also provide advice to government and determine where exceptions may be granted - for example, where the provision of affordable housing would financially hinder the delivery of a critical or major component of city-making infrastructure.

We will undertake a strategic needs assessment for Affordable Rental Housing across Greater Sydney to support the work of relevant planning authorities in preparing their local housing strategies.



Action L6: Support councils to achieve additional affordable housing

In relevant areas, we will support councils and the Department of Planning and Environment in amending SEPP 70 - Affordable Housing (Revised Schemes). The application of the target identified in this District Plan should not prejudice negotiations to secure affordable housing in other locations where this target is not applicable.



Action L7: Provide guidance on Affordable Rental Housing Targets

We will prepare a guidance note on Affordable Rental Housing Targets in collaboration with the Department of Planning and Environment, local government, State agencies, community housing providers, the private sector and the community.

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Action L8: Undertake broad approaches to facilitate affordable housing

To address housing affordability more broadly, we will work with councils, industry, financial institutions and relevant State agencies (including community housing providers) to investigate or advocate for new opportunities, such as:

- planning approaches to support the community housing sector to better leverage housing affordability supply outcomes
- broader financing and taxation changes such as changes to asset classes for superannuation funds
- amendments to existing tenancy legislation to allow longer term rental leases to improve security of tenure
- more cost effective and innovative building approaches, including prefabricated and modular housing, collective housing, maximum car parking rates and more compact housing forms of suitable design quality.

4.4.5 Support social housing

Just under 18,500 South West District households receive social housing – this represents 5% of all District households. There are clusters of social housing in the Campbelltown area, Macquarie Fields, Bonnyrigg, Currans Hill, Liverpool and Fairfield.

There is considerable demand for social housing and this is expected to increase. Furthermore, in previous years there has been a net loss of supply. To reverse this trend the Department of Family and Community Services commenced Communities Plus. This program is a selffunded, accelerated development program designed to create integrated communities containing affordable housing, replacement and new social housing, as well as private homes.

Communities Plus

Communities Plus will deliver up to 23.000 new and replacement social housing dwellings, 500 affordable housing dwellings and up to 40,000 private dwellings across Greater Sydney.

Communities Plus is based on an asset management framework that leverages the value of the existing portfolio to accelerate supply.

Communities Plus will redevelop existing social housing estates by engaging private sector developers and Community Housing Providers to design, fund and build affordable, social and private housing. As each development is completed, new social housing properties are handed back to the Department of Family and Community Services as payment for the land, making the program entirely self-funded.

Community Housing Providers will manage the social housing properties and own and manage the affordable housing component, further developing this emerging sector of our economy.

Currently, many social housing sites are subject to planning controls based on historical land use, rather than reflecting the local environmental capacity for density and height uplift. The Commission and the Department of Planning and Environment are working with Land and Housing Corporation, councils, Transport for NSW and other State agencies to adapt planning controls to maximise outcomes for the Communities Plus projects and thereby the residents of Greater Sydney.

The South West District will continue to require social housing and much of this provision will come through Communities Plus.

Three neighbourhood projects have been identified by Communities Plus in the South West District at Liverpool and Warwick Farm.

A 1.758 square metre site on Bigge Street. Warwick Farm will be part of Stage 1 of Communities Plus, providing a mix of medium and high density homes.

Stage 2 projects comprise sites at Anderson Avenue, Liverpool and Mannix Parade, Warwick Farm.

This draft District Plan recognises and supports the ambition to provide a mix of housing on existing sites to create well-designed, socially cohesive communities.



Liveability Priority 4: Increase social housing provision

Relevant planning authorities and the Department of Family and Community Services (and the Land and Housing Corporation) should collaborate to optimise housing and community diversity outcomes on sites of social housing concentration.

Subject to appropriate consultation, feasibility considerations and environmental assessment, relevant planning authorities should translate optimal outcomes for social housing sites into land use controls.

How these matters have been taken into account need to be demonstrated in any relevant planning proposal.

4.4.6 Facilitate integrated infrastructure planning - managing growth

Action 3.11 of A Plan for Growing Sydney requires support for urban renewal by directing local infrastructure to centres where there is growth. A major challenge in creating capacity for additional housing, particularly in land release and major urban renewal areas, is the coordination of infrastructure and land use planning so that infrastructure is delivered in the right place at the right time, in line with actual growth. This requires a detailed understanding of forecast growth and infrastructure investment programs across a range providers and locations.

A more targeted and coordinated approach to planning and delivering regional, district and local infrastructure would achieve this, whilst also expediting investment and development, and potentially boosting the delivery of new housing.

This approach to coordinated infrastructure planning could involve:

- working with the private sector to advance designs for infrastructure to achieve greater certainty of delivery costs and constraints
- reviewing development forecasts annually to create more accurate information about timing and location of development
- staging development to get the most efficient use of existing infrastructure capacity
- staging infrastructure delivery using interim solutions including packaged wastewater treatment systems and temporary intersection improvements
- involving the community in decision making about infrastructure investment to ensure that it meets local needs.

This approach will help inform the update and review of funding arrangements for State infrastructure through Special Infrastructure Contributions, as well as inform the Commission's Annual Infrastructure Priority List,



Action L9: Coordinate infrastructure planning and delivery for growing communities

The Commission will work with the Department of Planning and Environment to better coordinate land use and infrastructure strategies at a State, district and local level to deliver infrastructure to growing communities as needed.

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4.5 Coordinate and monitor housing outcomes and demographic trends

Through the housing continuum approach, we will draw together all the actions and programs across State and local government as well as the not-for-profit and private sectors to improve our understanding of where new homes are needed and the type of dwellings required. This, in turn, determines planning needs for education, transport, utilities and other infrastructure.

The construction of new homes is a major economic activity and requires a supply of skilled workers, access to capital and availability of materials. To support the construction of new homes all stakeholders need up to date information on housing supply to coordinate supply capacity, infrastructure and delivery.

The Department of Planning and Environment publishes annual housing completions, which will be improved by the inclusion of more detailed data describing all types of housing. Supply forecasts and completions data needs to consider all housing types so that the mismatch of supply and demand can be closely monitored and used to inform activities across the sector.

The Department of Planning and Environment also prepares demographic projections and provides advice on demographic trends. Population projections that accurately describe projected changes in population characteristics like age and household type also inform planning for education, emergency services, utilities and transport.



Action L10: Provide data and projections on population and dwellings for local government areas across Greater Sydney

The Department of Planning and Environment will

- regularly prepare updates to 20-year population and dwelling projections for NSW by local government area
- prepare a housing needs assessment that will assist the preparation of local housing strategies
- continue to release 20-year projections of population growth, including:
 - projections for age profiles (including student population age cohorts)
 - households types
 - implied dwellings
- publish annual 10-year housing supply forecasts that:
 - include forecast supply by local government area
 - enhance the existing forecasts to include details of housing types
 - include housing completions across Greater Sydney, including those in new growth areas, to allow comparison of projections and completions.

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4.6 Create great places - not just building houses

Culture and climate differ all over the world, but people are the same. They'll gather in public if you give them a good place to do it.

Jan Gehl, Danish architect and urban designer

The South West District is unique in Greater Sydney - a bushland city that is completely transforming. From a design perspective, this transformation must retain the highly valued liveability characteristics such as the bushland setting, vistas and waterways while renewing existing areas and creating new areas that help people to feel happy, healthy, safe and part of their community. This goes well beyond the planning for new homes, and instead requires a focus on whole new communities.

Our planning must do more than roll out vast expanses of poorly-designed housing across the landscape creating ugly, featureless estates, rather than creating new liveable, sustainable neighbourhoods. We need to recognise and build on the valued characteristics of individual neighbourhoods, and for the South West's new suburbs design new places, not just build houses.

Some of the District's older housing estates were so poorly designed that they have been completely replaced, such as in Bonnyrigg and Minto. Some more recently developed areas are less than ideal with almost identical houses, their footprint nearly covering entire small lots, ridgelines being built over, and the use of dark hard surfaces coupled with lack of green canopies, creating urban heat islands.

We need to move away from generic design and encapsulate the spirit and landscape of the South West District - places of woodlands and waterways, open space and green connections, and views to hills and tree-covered ridgelines.

This draft District Plan looks at how we can work across government to provide the kind of places and facilities that help to build a more cohesive community.

4.6.1 Provide design-led planning

Design-led planning aims to produce good quality integrated urban land use and transport as key elements of a people-centred, sustainable and liveable environment. It involves working with communities to identify the key strengths of a place – what makes it special – and ways to enhance this in the future. Clear, shared goals can then be used to shape future initiatives, decision-making, development proposals and funding.

The NSW Covernment's draft architecture and urban design policy. *Better Placed* (October 2016), seeks to deliver design excellence and a safe. equitable and sustainable built environment. It outlines the importance of successful design for cities and towns noting that:

- Cities and centres are linked through economic factors: they support industry and commerce, employment and services. Accommodating an agglomeration of people and activity is key to a city or centre's productivity.
- Collectively, urban development is responsible for significant **environmental** and greenhouse impacts, energy use and displacement of ecological and agricultural land.
- Cities and towns welcome and house people and communities. The coming together of people in urban places plays an essential social function in accommodating relationships.

The draft policy advocates design-led planning and notes that 'the role of urban design and architecture is essential to all three of these factors and is a key determinant of successful urban places'.

The Draft Policy on Urban Design and Architecture establishes seven principles of urban design that are relevant to the District. These include:

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Better Placed: Seven Principles

Principle 1: Contextual, local and of its place. The urban environment is where most of us live, work and recreate.

Places should be designed to be integral with local people and cultures and connected to their landscape and setting. In this way, a place will be 'of its location' - distinctive, resonant and engaging.

Principle 2: Sustainable, efficient and durable. Cities, towns and the infrastructure they require have both a positive and negative impact on environmental quality and climate change.

An urban area should be designed to be accessible and compact; to minimise consumption of energy, water and natural resources, and to avoid detrimental impacts on natural systems. It should be designed to respond and adapt to changes over time.

Principle 3: Equitable, inclusive and diverse. The city represents the coming together of the full spectrum of society in a mutually beneficial arrangement.

Cities and towns must accommodate and provide access to opportunities for all. Urban design should provide equitable access to housing, employment, public transport, public space and social opportunities.

Principle 4: Enjoyable, safe and comfortable. How people experience cities has a daily impact on people's lives, and investment in development and infrastructure can have an impact for decades and generations.

Urban design should be people focused, providing environments that are user-friendly, enjoyable, accessible and dignified.

Principle 5: Functional, responsive and fit for purpose. As the setting for our daily lives, the urban environment must work well for a wide range of purposes.

Urban design can influence the functionality and workability of urban areas permanently, and so design quality at the outset is essential.

Principle 6: Value-creating and cost effective. Substantial investment goes into the urban environment and infrastructure from a range of sources.

Well-designed urban places have the potential to be highly cost effective over the long term, creating ongoing and increasing value for all.

Principle 7: Distinctive, visually interesting and appealing. For most people the urban environment is where we live our daily lives.

The design of the city or precinct is fundamental to how it looks, feels and works for people. Poor design has a lasting, negative impact, while good design provides ongoing benefits for all.

The draft policy supports productivity,

environmental management and liveability by fostering quality processes and outcomes in the delivery of housing, employment, infrastructure, open space and public areas.

Accordingly, this draft District Plan seeks to deliver several specific design-led planning outcomes, including:

- considerations for planning strategic and district centres (Section 3.4)
- design guidelines for medium density housing (Section 4.3)

- design guidelines for safe and healthy built environments (Section 4.6)
- urban agriculture, community and roof gardens for productive food systems (Section 4.6)
- integration of arts and cultural strategies, investment and actions into urban development (Section 4.7).
- support for enhanced sharing of community resources and spaces (Section 4.7)
- Aboriginal, European and natural heritage considerations (Section 4.7).

These areas emphasise the broad range of outcomes that need to be balanced when planning for an area. Design-led planning and the design principles inform the process for considering how to balance competing objectives while delivering on the core needs of the community such as sufficient housing. affordable housing, economic activity – thus jobs. This is particularly important in the context of the three guiding principles that underpin the planning for how Greater Sydney grows as outlined in A Plan for Crowing Sydney.



Action LTI: Provide design-led planning to support high quality urban design

To provide high quality urban design, we will support the NSW Government Architect in the development and implementation of design-led planning approaches, specifically for Collaboration Areas and planning for centres and precincts.

4.6.2 Plan for safe and healthy places

As documented by the Heart Foundation, healthy built environments help prevent physical and mental health problems. This is achieved through the provision of functional well connected streets and public spaces. In neighbourhoods that fulfil the services and social needs of residents. Building on Action 3.3.1 of *A Plan for Growing Sydney* guidelines for the planning, design and development of a safe and healthy built environment can potentially be more effective if they are incorporated into broader considerations outlined in the Liveability Framework and the Draft Policy on Urban Design and Architecture.

Design-led planning of the public realm footpaths, squares, open spaces, parks and nature strips - should result in places and streets that are safe and functional that can support people to walk or cycle rather than drive. Walkable, well-lit places and paths can provide a sense of safety for women, young children and older people, all of whom are often the first to sense that a neighbourhood is not safe especially after dark.

Functional streets must also provide easy connections to day to day need and transport options. Co-located schools, transport and services in mixed use areas capable of growth will improve the sustainability of these centres and their communities and enhance accessibility with the potential to reduce congestion.

Healthy built environments can also facilitate access to fresh seasonal food. Designled planning for productive roof gardens. community gardens and other forms of urban agriculture can facilitate better health outcomes and greater community cohesion.

These characteristics of healthy safe environments can encourage more active lifestyles helping to reduce obesity and the rate of chronic illnesses such as diabetes and cardiovascular disease.



Liveability Priority 5: Facilitate the delivery of safe and healthy places

Relevant planning authorities should:

- facilitate the development of healthy and safe built environments
- consider the inclusion of planning mechanisms such as floor space bonuses to incentivise the provision of:
 - neighbourhoods with good walking and cycling connections particularly to schools
 - social infrastructure such as public libraries or child care
 - urban agriculture, community and roof gardens for productive food systems.

How these matters have been taken into account need to be demonstrated in any relevant planning proposal.



Action L12: Develop guidelines for safe and healthy built environments

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The Commission will work with the Department of Planning and Environment to develop designled planning guidelines for developing a safe and healthy built environment.

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4.6.3 Enhance walking and cycling connections

We see better walking and cycling connections and end of trip facilities, such as lockers and showers at a workplace, as a way to increase activity levels and improve health and wellbeing. This requires thoughtful planning to enable well designed footpaths and cycling facilities that link to services and transport options.

Co-location of complementary land uses such as shops, schools, child care, community and recreation facilities helps people to interact and improves the viability of public transport, walking and cycling, while interconnected networks of footpaths and bicycle paths can connect people to these places, increasing activity levels and reducing congestion.

Within the eastern part of the District, most areas have access to at least one centre within a 30-minute cycle ride. In the north east of the District, it is possible to travel between at least two centres within 15 minutes. Walking is the first and last mode of transport for most typical trips – for example, from where people park to their workplace, or from their home to a bus stop. It is therefore a fundamental component of how we live our daily lives and of a liveable community.

The South West District offers many opportunities to increase walking and cycling for local trips given the large proportion of trips under five kilometres that are taken by car.

Transport for NSW is developing a Walkability Tool that will help to identify areas where improvements to the walking environment can be made. The tool assesses how easy it is to access services and destinations by foot, the relative comfort of walkways along adjacent roads and how easy it is for walkers to access public transport.

Transport for NSW's Sydney's Walking Future and Sydney's Cycling Future reflects the NSW Government's commitment to working with councils to make walking and cycling more convenient, safer and enjoyable. Funded through the Walking Communities program, improvements to the walking network will help to reduce the amount of time people spend at intersections, enhance facilities for pedestrians, and encourage more people to travel on foot.

Transport for NSW is also establishing Sydney's

Principal Bicycle Network. This will be made up of high quality, high priority routes that facilitate direct, barrier-free travel between centres. Routes will be separated from motor vehicles and local bicycle routes will connect in to form a finer grain cycling network.

The following Transport for NSW initiatives are under investigation:

- developing a Sydney Principal Bicycle Network aimed at connecting centres regardless of scale in collaboration with local government in the South West District
- completing the missing links in the existing bicycle network around Liverpool to improve access to Liverpool CBD including completing the network of cycleways within Liverpool City Centre
- connecting walking routes within two kilometres of Liverpool and Campbelltown-Macarthur and public transport interchanges.

Other walking and cycling projects in the South West District will continue to be delivered by both Roads and Maritime Services and local councils, and will be funded under the NSW Covernment's Walking and Cycling programs.

Transport for NSW and Roads and Maritime Services will continue to provide guidance to councils when making land use decisions that affect accessibility in and around centres.



Liveability Priority 6: Facilitate enhanced walking and cycling connections

Relevant planning authorities should facilitate enhanced walking and cycling outcomes by giving due consideration to the delivery of district and regional connections and walkable neighbourhoods.

How these matters have been taken into account need to be demonstrated in any relevant planning proposal.

4.7 Foster cohesive communities in the South West District

People are proud to call the South West District home. As the District grows, we have a responsibility to create cohesive communities each with their own sense of place. Our aim is to build on the District's strengths. The history, heritage and cultures of our District are expressed in the unique characteristics of our neighbourhoods. These valued qualities, together with the District's diverse communities give rise to local identity and a sense of belonging. Growing the great places of the South West District requires protecting, and where possible, enhancing these highly valued liveability characteristics.

Our consultation tells us that the cultural and social aspects of life in the South West District are important. People support multicultural businesses and the District's many multicultural events. It was noted that the District lacks a vibrant night time economy including safe places to go for a fun night out, especially for young people, without having to leave the District, and people called for more and safer public transport at night.

Through design-led planning we will work with communities to identify the key strengths of unique places within the District, and ways to enhance these in the future. We can enhance social cohesion and achieve this by protecting the heritage and local identity of the many unique neighbourhoods across the District.

By collaborating across the creative arts, business and communities we can foster cultural development and expression across the District. By protecting and enhancing existing access to natural landscapes, parks, sportsgrounds and recreation facilities we can encourage more active lifestyles. We will enhance liveability outcomes by greater sharing of sports and community facilities across the District.

Each of these elements of cohesive communities is discussed in more detail in this section.

4.7.1 Conserve and enhance environmental heritage including, Aboriginal, European and natural

The South West District's rich Aboriginal, cultural and natural heritage reinforce our sense of place and identity. This includes items listed on the State Heritage Register, such as Nepean Dam and Bonnyrigg House, and significant Aboriginal place listings, rock art sites and middens and conservation areas demonstrating early European settlement of Australia such as Camden Park/Belgenny Farm. Kirkham (Narellan), numerous colonial era homesteads (Oran Park, Harrington Park), and the Camden, Macarthur and Macquarle historic towns.

The District has a long history of Aboriginal occupation and cultural heritage which is an important component of a shared cultural fabric. We must appropriately recognise, protect and manage these assets in collaboration with relevant custodians and State agencies, as the District grows, and work with the Aboriginal community to identify and map the significant stories and cultural places in the District.

The South West was also the birthplace of Australia's rural industry - John Macarthur and his wife Elizabeth bred the first high quality merino sheep here and Australian wool became so superior it gained almost a worldwide monopoly as Australia 'rode on the sheep's back' for over 100 years.

Camden Town Centre enjoys exceptional heritage significance and a distinctive local character that has long been valued by the community. Its town centre is a highly attractive location for local businesses and new residents from the growing communities elsewhere in the South West District, who are drawn to Camden's heritage, character and high amenity. The popularity of Camden Town Centre means that the pressure to develop new homes and businesses needs to be managed carefully, so that the heritage values, amenity and the unique character of the centre are maintained.

As the place of settlement and new beginnings for many migrants, the South West District offers a range of distinct and authentic cultural precincts with culturally diverse food, inspiring stories and genuine experiences. The District has a successful and growing tourism sector that promotes unique experiences engaging with local Aboriginal heritage. RICT

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colonial settlement history and the history and development of agriculture in Sydney.

Places and items of heritage significance are protected by the Heritage Act 1977, the National Parks & Wildlife Act 1974 and listed in local environmental plans for conservation. This protection can be further enhanced by the implementation of the best practice guidelines contained in the ICOMOS Burra Charter and the NSW Heritage Manual.

Also important to the District's values is its biodiversity including parks and landscapes that form significant parts of the Green Grid such as Nattai National Park, Dharawal National Park as well as the Georges River and Western Sydney Parklands. Protecting and enhancing these diverse landscapes, water catchments and ridge lines will help ensure the South West District remains a great place to live.

This draft District Plan recognises that development must be more than sympathetic to the District's heritage - it must enhance it. Our heritage offers a point of difference that fosters connected communities and local identity. Opportunities to adaptively re-use character and heritage buildings through the development process should be used to protect and enhance places, spaces and qualities valued by the local community.



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Action L13: Conserve and enhance environmental heritage including, Aboriginal, European and natural

To support high quality urban design and healthy places, the Office of Environment and Heritage. Department of Planning and Environment, and Aboriginal Affairs will collaborate to map Aboriginal-owned lands, places of significance, local community organisations and public art and place making projects and events celebrating Aboriginal history.

Relevant planning authorities need to identify, assess, manage and protect the heritage which underpins the community's pride of place.

The Commission will work with the Office of Environment and Heritage and councils to identify and share best practice in restoration, alterations, additions and adaptation of heritage items.



Liveability Priority 7: Conserve heritage and unique local characteristics

Relevant planning authorities should

- protect Aboriginal, cultural and natural heritage and places, spaces and qualities valued by the local community
- require the adaptive re-use of historic and heritage listed buildings and structures in a way that enhances and respects heritage values
- protect the heritage values of Camden Town Centre and consider how its amenity and character can be maintained.

How these matters have been taken into account is to be demonstrated in any relevant planning proposal.

4.7.2 Support the creative arts and culture

High quality arts facilities in the South West include the Campbelltown Arts Centre, Fairfield Museum and Gallery, Casula Powerhouse. Camden Historical Museum, Trainworks Railway Museum at Thirimere and the Powerhouse Youth Theatre at the Fairfield School of Arts.

Opportunities to participate in arts and cultural activities can foster local identity and sense of place. Recent research demonstrates that art in Western Sydney 'continues to break new ground, sets new standards, and rivals in excellence art created elsewhere in Australia, and overseas'.

The events and activities that operate through these and many other local arts and cultural facilities help the South West District's residents to connect, celebrate and identify with one another.

The public domain is an important place for cultural exchange through public art. cultural programs and festivals. Many of these are organised locally and are enhanced by collaboration and partnerships across the District. Neighbourhood street fairs, festivals, fetes, indoor and outdoor exhibitions, workshops and community markets provide important opportunities for people of all ages and walks of life to experience and participate in arts and culture. Examples include Cabramatta's Tet Festival and Moon Festival. the Camden Show, the Fairfield Eld Festival Wollondilly's Illuminarte Festival based on the Picton Centre, the Thirlmere Steam Festival, Warragamba DamFest, Campbelltown's Festival of Fisher's Ghost, and Fairfield City Showground multicultural festivals and markets. The work of local volunteers and support organisations across the District is further evidence of a strong community spirit.

In the District arts and culture promote local identity and provide for the needs of different groups in the community, Nurturing a culture of art in every day local spaces through design led planning can facilitate community cohesion and important liveability outcomes. Arts and cultural policy, investment and actions should be well integrated into urban development. This can be achieved through planning proposals for urban renewal areas and priority precincts that enhance access to the arts in all communities DISTRICT

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and nurture a culture of art in everyday local spaces.

During the review of A Plan for Growing Sydney and the finalisation of the District Plan, we will further explore, in consultation with stakeholders, how the final District Plan can provide direction on the enhancement of arts, culture and night time activities for the District. This will assist us to work towards better access to the arts for all communities across Greater Sydney and will consider.

- the provision of community infrastructure (library/hubs) in planning for improved places
- delivering a diverse range of night-time activities in appropriate places, particularly in Liverpool and Campbelltown-Macarthur
- encouraging tourism in culturally diverse centres and districts
- cultural events and assets such as those listed above.



Liveability Priority 8: Foster the creative arts and culture

Relevant planning authorities should:

- integrate arts and cultural outcomes into urban development through planning proposals that nurture a culture of art in everyday local spaces, provide flexible, accessible performance spaces and enhance access to the arts in all communities
- give due consideration to the inclusion of planning mechanisms that would incentivise the establishment and resourcing of creative hubs and incubators and accessible artist-run spaces.

How these matters have been taken into account need to be demonstrated in any relevant planning proposal.

4.7.3 Create opportunities for more recreation and community facilities

Adequate provision of the whole range of recreation and community facilities contribute to a liveable city. These include local and regional recreation areas, parks and natural landscapes and community facilities such as libraries, event spaces, community centres and community gardens.

Our planning for the South West District presents unique challenges – creating great facilities and places in new greenfield suburbs while also enhancing the many community facilities that people value in established suburbs.

Young people tell us there are few local recreation and leisure opportunities for them - there are local playgrounds for small children and big facilities for organised sport, but few local centres where they can play sport more casually; and that even where there are, the lack of public transport, especially on weekends and after school, and the absence of cycle paths in many areas means they can't access them easily.

Community support service providers tell us that there aren't enough affordable, accessible local community facilities where they can provide their services and the ones that are available are often not serviced by public transport.

The Heart Foundation has identified that people who are not physically active are almost twice as likely to die from coronary heart diseases as those who are. As such, increasing the level of physical activity in the community is likely to have a major impact on public health.

Our planning should focus on allowing many activities to occur in the District's recreation spaces. We also need to look at more flexible use of underutilised public spaces to ensure we meet the demand for contemporary green spaces. We need to focus on multi-use recreation areas for a range of different user groups.

Future planning and decision-making should continue to enhance access to recreation and community facilities and accommodate new and shared use of facilities as required by the existing and future local communities.

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The South West features valued recreation facilities and bushland areas. Future planning and decision-making should reinforce these distinguishing characteristics and continue to enhance access to these facilities.



Action L14: Develop a South West District sport and recreation participation strategy and sport and recreation facility plan

The Office of Sport will coordinate and support the bringing together of Councils to develop a Sport and Recreation Participation Strategy and a Sport and Recreation Facility Plan for the South West District.

4.7.4 Support planning for shared spaces

Making more productive and sustainable use of existing resources is good urban governance. Given the growing and changing population of the South West District to 2036, a more clearly articulated governance system for the shared use of community resources could be a game changer for Greater Sydney.

By working with State agencies and local government we can identify assets that are available for complementary community use and investment. One example of this is the opportunity for government and nongovernment schools to collaborate with local government to access school facilities and open space. Shared use of resources could extend to:

- schools' open space resources
- community facilities such as meeting rooms, gymnasiums or art facilities
- private open space resources such as swimming pools and golf courses
- services (waste, access, recycled water) for multiple buildings within a street frontage.

Shared spaces: Pilot project

The Hills Shire and NSW Department of Education are collaborating on a pilot project that seeks to allow shared use of government school facilities with the broader community.

While the approach taken in The Hills Shire will not fit all local communities, it is a major step forward in the process of providing better utilisation of public assets.

Across Greater Sydney this approach might provide opportunities to better integrate schools with local communities, particularly in dense urban environments where there are competing land use constraints and growing demands for access to open space and community facilities.



Liveability Priority 9: Share resources and spaces

Relevant planning authorities should consider the delivery of shared local facilities such as community hubs. cultural facilities and public libraries as multifunctional shared spaces.

How these matters have been taken into account need to be demonstrated in any relevant planning proposals.

Action L15: Support planning for shared spaces

To support the sharing of spaces we will:

- collaborate with State agencies, non-profit organisations, private providers and communities to identify opportunities for the shared use of community and school facilities
- support the NSW Department of Education's preparation of a joint venture template that will include the shared use of school playgrounds and other spaces
- where requested, provide strategic planning advice prior to sale regarding alternative uses of surplus governmentowned land including schools.

4.8 Respond to people's need for services - developing complete communities

In accordance with Action 3.1 of A Plan for Growing Sydney, ensuring the District continues to be a great place to live requires the provision of the infrastructure and services that people need, from birth to the end of life. The full range of service needs must be realised including child care, schools, hospitals, health centres and aged care, as well as cemeteries and crematoria to support Greater Sydney's liveability.

The delivery of these services is the responsibility of many agencies and organisations that need to consider existing and future demand.

This section explores our approach to supporting the planning and delivery of these services.

4.8.1 Education infrastructure

In 2016, Government schools in the South West District accommodate more than 88,000 students representing 71% of the student population. In addition, just over 35,000 students attend non-government schools. By 2036 significant growth in the primary and secondary school aged population is expected to result in an increase in school enrolments of around 63,200 or 51% based on the current enrolments in government and nongovernment schools.

Within the District, schools are concentrated in more densely populated areas in the developed areas in Liverpool, Campbelltown, Fairfield, and Camden. The District's 172 government schools are characterised by high utilisation rates and a significant amount of demountable classrooms for primary schools.

Recent major investment in government schools include:

- funding for upgrades to Ajuga Special Purpose School, Bardia Public School, Campbell House Special Purpose School, Cecil Hills Public School, Glenfield Park Special Purpose School, Oran Park Public School, Prestons Public School, William Stimson Public School and Glenfield High School
- a new special purpose school at Narellan
- a new primary school at Gledswood Hills
- a new high school at Oran Park.

Table 4-4: Actual (2016) and projected (2026 and 2036) NSW public school students for South West District

School Level	2016	2026	2036	2016-2036	Change
Government Primary	51,500	67.200	76,950	25,450	49%
Government Secondary	37,000	44,850	55,300	18,300	49%
Government Subtotal	88,500	112,050	132,250	43,750	49%
Non-Government Primary	18,850	24.700	28.750	9,900	53%
Non-Government Secondary	16,750	20,800	26,300	9,550	57%
Non-Government Subtotal	35,600	45,500	55,050	19,450	55%
Total	124,100	157.550	187,300	63.200	51%

Source: NSW Department of Education. 2016. NSW Department of Education disclaim liability to the reliance of information in the Child. Adolescent. and Student Projections 2016. Information is correct only at the time of release and reflect the assessed observed current and retrospective trend. There is no certainty that these trends will be realised at any reported time point or geography. These projections are not targets and are made independently from Departmental policy direction.

Table 4-5: Count of schools by school type and sector for South West District (2016)

School Type	NSW Public Schools	Catholic	Independent
Primary	119	25	3
Secondary	38	12	7
Combined (K-12)	3 <u>4</u>	123	19
School for Specific Purposes	13	1	5
Environmental Education Centre	2	.	
Total	172	38	34

Source: NSW Department of Education. 2016 and Catholic Education Commission, 2016 and Association of Independent Schools of NSW. 2016

4.8.2 Plan to meet the demand for school facilities

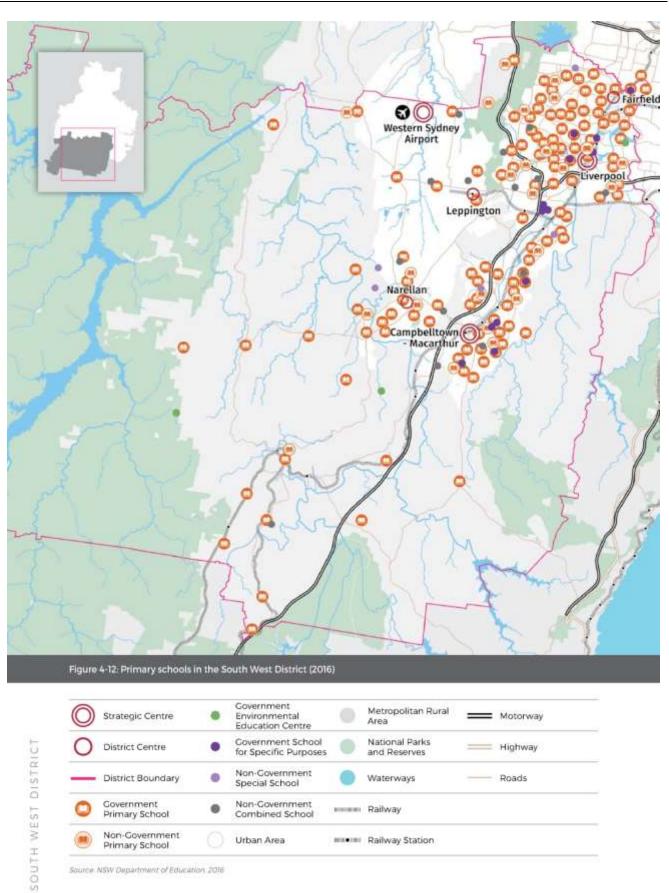
To ensure school planning meets demand (for example in greenfield areas), requires an understanding of where the school-age population is likely to increase, stabilise or decline and, therefore, when new classrooms or schools will be needed, or where capacity will become available. Integrated school investment solutions can then be developed based on the unique characteristics of the District's communities.

If no additional classrooms were to be provided until 2036 there will be significant shortfalls based on projected changes in the primary and secondary school aged population. There is significant increasing demand in the South West Growth Centre, Liverpool and Fairfield areas and the Greater Macarthur Release Area. The Department of Education currently optimises use of its infrastructure in a number of ways including:

- the realignment of school catchment boundaries
- prioritising 'in catchment area' students
- increasing the size, amenity and functionality of existing schools
- using relocatable classrooms to manage fluctuations in enrolments.

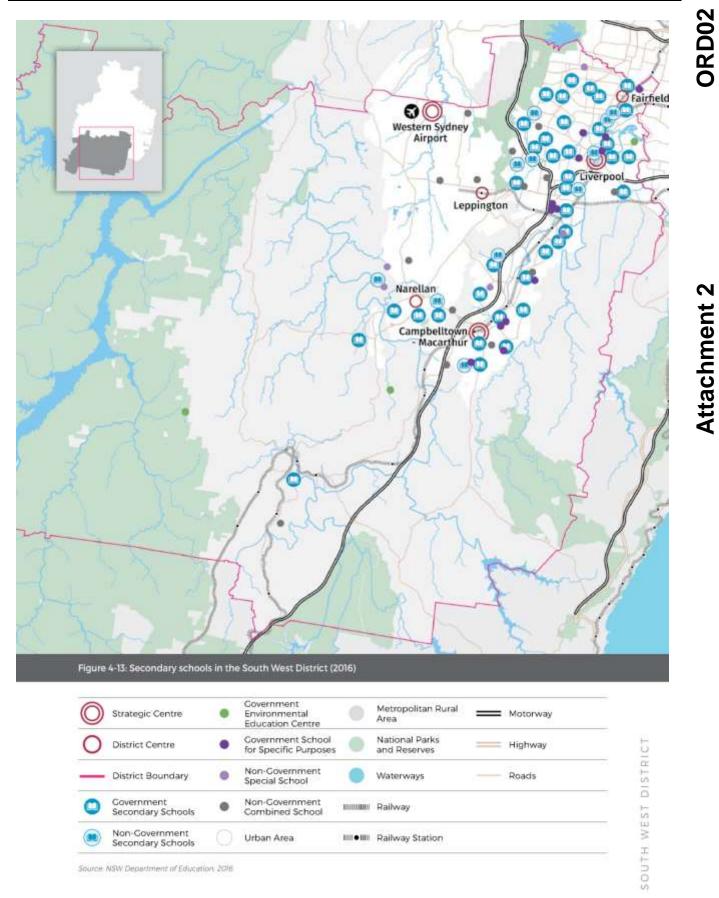
While detailed demand for government school facilities and appropriate responses will be identified by the Department of Education, our planning must recognise that schools are critical infrastructure in growing communities. Furthermore our planning should support innovative approaches to the design and location of new and expanded school facilities. Attachment 2

Attachment 2



Attachments for the Ordinary Council Meeting held on 28 March 2017 - Page 262

Source NSW Department of Education. 2016



Attachments for the Ordinary Council Meeting held on 28 March 2017 - Page 263

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Liveability Priority 10: Support Innovative school planning and delivery

Relevant planning authorities should give due consideration to:

- Innovative land use and development approaches including:
 - using travel management plans, that identify travel options, to reduce car use
 - enabling the development and construction of schools as flexible spaces, so they can facilitate shared use and change over time to meet varying community needs
- the inclusion of planning mechanisms that would incentivise the:
 - development of new schools as part of good quality and appropriate mixed use developments
 - the shared use of facilities between schools and the local community including playing fields and indoor facilities, so they can meet wider community needs.

How these matters have been taken into account need to be demonstrated in any relevant planning proposal.



Action L16: Planning for school facilities

To better support planning and decisionmaking across education, providers and relevant planning authorities the Department of Planning and Environment will:

- continue to release 20-year projections of the student population in the District
- annually release housing forecasts showing where and when school catchments will be affected by growth
- monitor housing completions in new growth areas to confirm where student populations are growing
- work with NSW Property and the Department of Education to identify the strategic potential of key government sites

support the creation of a joint forum for government and non-government school sectors to work collaboratively to plan for future growth and change.

4.8.3 Plan for the provision of early education and child care facilities

Demand for early education and child care facilities will also increase in the South West District given the expected 21.650 new babies and toddlers that will reside in the District by 2036. Planning for these facilities in existing communities will increasingly require innovative approaches to the use of land and floor space, including co-location with compatible land uses such as primary schools and office buildings.

In order to meet the increasing demand for child care and early education facilities, the Department of Planning and Environment and Department of Education Communities are working jointly with other government and nongovernment agencies to improve the quality and availability of early childhood education and care facilities by streamlining the planning system and aligning it to the National Quality Framework for Early Childhood Education and Care. Out of school hours child care is essential for jobs growth and consistent with the Department of Education's arrangements for joint use.

4.8.4 Plan for the provision of youth services

The District's population is growing and its characteristics are also changing. The South West District is also multicultural and while older people will make up a greater proportion of residents in the future many other sectors of the community also require socially, culturally and age appropriate service provision.

The South West District has considerable demand for targeted youth services and facilities. Age appropriate cultural, social and employment facilities are important to support our youth and address issues such as mental health, homelessness, pre-employment training and job readiness in a socially appropriate manner.

4.8.5 Support the Aboriginal community

A significant proportion of Aboriginal and Torres. Strait Islander people live in the South West District making up 1.8% of the population and mainly living in the Campbelltown and Liverpool local government areas.

Engagement with the Aboriginal community, built on trust and integrity, should be founded on a framework of self-determination and Aboriginal control, particularly in terms of the management of assets and cultural heritage, and the development of policies and strategies for economic and social opportunities.

Equity of access to appropriate whole-of-life social infrastructure can improve the Aboriginal community's health, wellbeing and economic participation. In particular consideration of targeted health and education services and child care and aged care services are required. Collaboration with the diverse Aboriginal communities of the District will be required to determine appropriate priorities.

Federal and State agencies are working with Aboriginal communities, local government and service providers to deliver high quality educational and health outcomes.

The NSW Covernment has committed to the establishment of an Aboriginal Centre of Excellence in Western Sydney. The \$20 million Centre will deliver programs and services that support young Aboriginal people to transition between education and employment.



Action L17: Support the provision of culturally appropriate services

The Commission and Office of Aboriginal Affairs will establish an ongoing engagement forum with Creater Sydney's Aboriginal community in order to better inform our planning. This will include representatives from Aboriginal Land Councils, Aboriginal youth and students, and Aboriginal service providers. Together, we will prepare and agree on an engagement strategy, and focus on deliverable actions that align with Aboriginal community aspirations in each District. Through this approach information can be provided to relevant planning authorities to support planning outcomes for the Aboriginal community.



Liveability Priority 11: Provide socially and culturally appropriate infrastructure and services

Relevant planning authorities should

- collaborate with Federal and State agencies and service providers to integrate local and District social infrastructure for Aboriginal residents including preschools, child care and aged care services
- include appropriate planning mechanisms to incentivise the provision of these services required by local communities where appropriate.

How these matters have been taken into account need to be demonstrated in any relevant planning proposals.

4.8.6 Support planning for health networks

The health network encompasses the whole spectrum of health facilities and services for every segment of the community. The network includes hospitals and emergency services as well as associated surgeries, clinics, pathology and allied health providers. Co-location of business educational institutions and industry provides a competitive advantage. A strong health network is also a generator of local jobs.

Planning controls for productive health precincts and centres that allow complementary and ancillary services such as short-term accommodation, residential aged care, child care, specialist or allied health infrastructure will support better accessibility to services.

These services will co-locate to varying degrees in smaller centres and to a greater extent in the established health care precincts where the employment opportunities can be leveraged to improve transport networks and connectivity. For these reasons planning controls should support the creation of productive local health networks and consider the operational needs of providers.

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As detailed in Chapter 3, Campbelltown-Macarthur and Liverpool have the potential to grow as strategic centres of health and education precincts. Planning controls will need to support the creation of productive health networks and consider the operational needs of providers. These health precincts support research and development capability and provide local jobs.

4.8.7 Support planning for health facilities and services

The South West District is served by the Liverpool tertiary hospital, with additional major hospitals at Campbelltown, Camden and Fairfield. Current planning for major new and improved health infrastructure includes:

- Campbelltown Hospital redevelopment stage 2
- Campbelltown Hospital Clinical School
- new major ambulance station at
- Liverpool, the largest in Creater Sydney
- HealthOne at Oran Park
- the HUB Community Health Centre at Miller
- community health programs such as local GP clinics, medical centres and other specialist health services as administered by the Australian Covernment's Primary Health Network



Liveability Priority 12: Support planning for health infrastructure

Relevant planning authorities should give due consideration to the need to support the co-location of ancillary uses that complement health precincts, including:

- residential aged care facilities
- housing for health workers
- visitor and short-term accommodation
- health and medical research activities
- child care
- non-critical patient care
- commercial uses that are complementary to and service the health precinct

Consideration should also be given to the protection of health precincts and super precincts from residential encroachment into key employment areas.

How these matters have been taken into account need to be demonstrated in any relevant planning proposal.

4.8.8 Plan for emergency services

NSW State Emergency Services, NSW Police, NSW Ambulance, Fire & Rescue NSW and NSW Rural Fire Service all work to protect the safety of our community. Not only do they prepare for, and provide assistance in, times of emergency they also build community resilience and reduce community concerns about personal safety and property security.

For all agencies, these highly mobile services need to be able to render assistance quickly and efficiently. The location of these services with a high level of transport connectivity is an essential requirement for emergency services, and needs to be considered in regional and local planning.

Early and ongoing collaboration with relevant planning authorities and communities is essential to delivering these services. The implementation of Crime Prevention Through Environmental Design principles through design-led planning is also required.

Improved reporting on housing completions and forecast supply by the Department of Planning and Environment will also support agencies to deliver services appropriately across the District, including improved risk profiling and an understanding of how emergency service catchments and demand will be affected by demographic change.



Action L18: Support planning for emergency services

The Department of Planning and Environment will provide demographic data and projections, as detailed in Action L10, to inform emergency service planning.



Liveability Priority 13: Support planning for emergency services

Relevant planning authorities must consider the operational and locational requirements of emergency services.

How these matters have been taken into account need to be demonstrated in any relevant planning proposal.

4.8.9 Plan for cemeteries and crematoria

Cemeteries and crematoria are important infrastructure, as all cities require land for burial or cremation and associated facilities such as chapels, reception centres and car parking.

Contemporary facilities often incorporate gardens, bushland settings and open space areas reflecting society's changing preferences.

Action L19: Support planning for cemeteries and crematoria

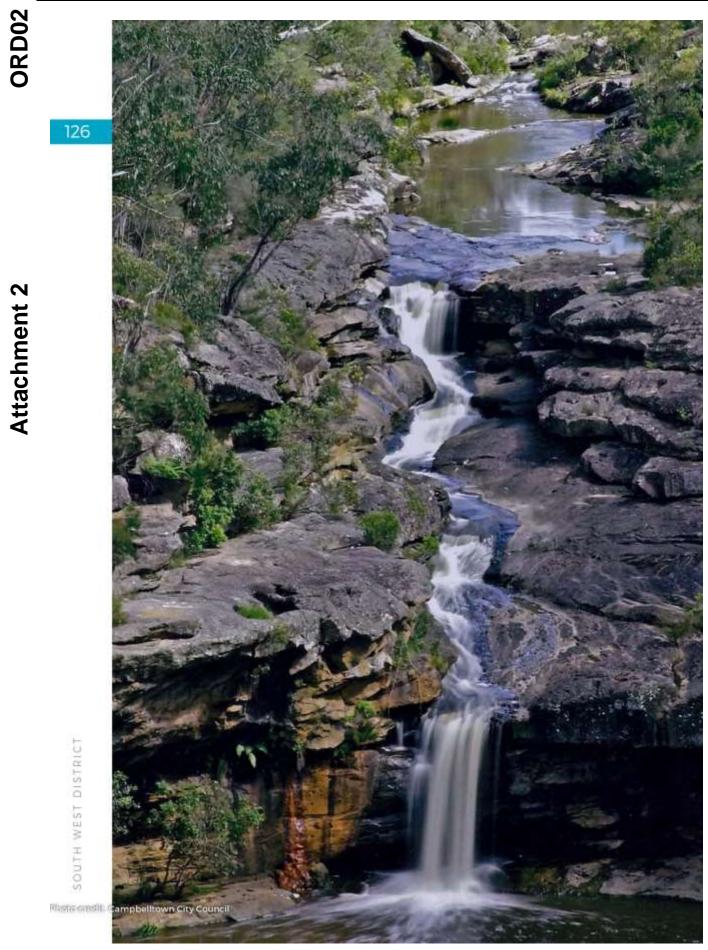
To support relevant planning authorities in planning for the full spectrum of their residents' lives, Cemeteries and Crematoria NSW will provide guidance on the appropriate location and development consent conditions for new cemeteries and appropriate land use controls and zoning. Once made available this information will shared on our website.



Liveability Priority 14: Support planning for cemeteries and crematoria

Relevant planning authorities should give consideration to the need and locational requirements of cemeteries and crematoria.

How these matters have been taken into account need to be demonstrated in any relevant planning proposal.



5 A Sustainable City

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The integration of environment and development concerns and greater attention to them will lead to the fulfilment of basic needs, improved living standards for all, better protected and managed ecosystems and a safer, more prosperous future

Agenda 21, 1992

The South West District is set out as a series of horseshoes, one inside the other. National parks, protected water catchments, rugged mountains and scenic hills cradle the horseshoe of the metropolitan rural lands where narrow roads curve through bushland and open paddocks and up scenic ridgelines, where historic towns and villages dot the landscape.

This draft District Plan proposes priorities and actions that can protect, conserve, maintain and enhance the District's biodiversity and natural beauty, its rural landscape setting and its scenic views, hills and ridgelines.

The Plan draws on *Our vision* – *Towards our Greater Sydney 2056*, which sets out the strategic basis for Greater Sydney as an efficient and resilient city. It also draws on the ambitions of *A Plan for Growing Sydney's* Goal 3 for a great place to live with communities that are strong, healthy and well connected and Coal 4 for a sustainable and resilient city that protects the natural environment and has a balanced approach to the use of land and resources.

This draft District Plan recognises that a metropolitan-wide approach to sustainability is needed to protect and enhance the environment. This means thinking of sustainability in terms of what is required for all of Greater Sydney and how best to then apply this thinking to protect and enhance the South West District's environment.

Collaboration will be needed to protect the District's environmental elements and to adapt and respond to a changing climate, build resilience to future shocks and create more efficient natural systems as the District grows. It also proposes to make Greater Sydney a net zero carbon emissions city by 2050.

Our vision for South Creek is key to this draft District Plan's approach to sustainability. As well as improving the health of the waterway and vegetation along the South Creek corridor, South Creek will become a spine for the District, a blue and green corridor within the landscape. which is recognised and valued by people across Greater Sydney.

This chapter outlines the sustainability priorities and actions for the South West District.

The priorities are presented in two ways. Firstly, each heading outlines a priority area, and we provide context and detail to expand on the outcomes sought. Some headings cover factual issues only; these are not included in the list below.

Secondly, within the broad priority areas there are, in many cases, more detailed priorities. We identify the specific purpose of these priorities in each case, by detailing how they relate to strategic planning and planning proposals.

The priorities should be considered in strategic planning activities and planning proposals as appropriate.

The full list of sustainability priorities covered in this section are outlined below.

- enhancing the South West
 District in its landscape
- protecting the natural beauty of the visual landscape
- improve protection of ridgelines and scenic areas
- protecting the District's waterways
- maintain and improve water guality and waterway health
- managing the District's estuaries
- protecting and enhancing biodiversity
- avoid and minimise impacts on biodiversity
- delivering Sydney's Green Grid
- align strategic planning to the vision for the Green Grid
- protect, enhance and extend the urban canopy
- managing the Metropolitan Rural Area
- discourage urban development in the Metropolitan Rural Area

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- consider environmental, social and economic values when planning in the Metropolitan Rural Area
- provide for rural residential development while protecting the values of the Metropolitan Rural Area
- creating an efficient South West District
- support opportunities for District waste management
- planning for a resilient South West District
- mitigate the urban heat island effect
- integrate land use and transport planning to consider emergency evacuation needs
- use buffers to manage the impacts of rural activities on noise, odour and air quality
- assist local communities develop a coordinated understanding of natural hazards and responses that reduce risk.
- managing flood hazards in the Hawkesbury-Nepean Valley.

The Greater Sydney Sustainability Profile

Our Greater Sydney Sustainability Profile can be viewed at www.greater.sydney. It provides maps and baseline information on the landscape and environmental characteristics of places across Greater Sydney, on flows of carbon, energy, water and waste, and on the resilience of communities across Greater Sydney to natural hazards.

It has been compiled to support the information contained in this chapter, and the reporting of information on the Greater Sydney Dashboard.

5.1 The South West District's environment

The South West District's natural environment is integrated into the urban environment as well as being its back-drop to the urban environment. The District is an urban parkland area intersected by three major waterways, enveloped on three sides by rural hinterland which is also surrounded by bushland, protected drinking water catchments, scenic hills and rugged sandstone plateaux.

The main water catchments for the District are the Nepean River Catchment and the South Creek Catchment, both of which flow into the Hawkesbury River, while the Georges River Catchment forms much of the south east of the District.

The District is primarily within the Sydney Basin Bioregion, one of the most species diverse bioregions in Australia. Four different subregions - Wollemi, Burragorang, Cumberland and Cataract - reflect the changing geographic and ecological characteristics from west to east across the District. The Wollondilly, Nepean and Georges Rivers and their tributaries flow through the District, with the riparian vegetation associated with these waterways providing connectivity in the landscape.



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The Sydney Basin Bioregion

Because biodiversity does not recognise state, district or local government planning boundaries, governments across Australia have adopted a bioregional approach to conserving and managing biodiversity in the landscape.

Bioregions are relatively large land areas characterised by broad, landscape-scale natural features and environmental processes that influence the functions of entire ecosystems. Each bioregion displays its own patterns in the landscape, ecosystem processes and fauna and flora. Within each bioregion, smaller subregions have been defined based on differences in geology, vegetation and other biophysical attributes and are the basis for determining the major regional ecosystems.

Of the 85 bioregions recognised in Australia, 17 are in NSW. The Sydney Basin Bioregion extends from just north of Batemans Bay to Nelson Bay, and almost as far west as Mudgee. It is one of two bioregions contained wholly within the State.

As well as Greater Sydney itself, the Sydney Basin Bioregion encompasses Wollongong, Nowra, Newcastle, Cessnock and Muswellbrook.

It includes a significant proportion of the catchments of the Hawkesbury-Nepean, Hunter and Shoalhaven river systems, all of the smaller catchments of Lake Macquarie, Lake Illawarra, Hacking, Georges and Parramatta Rivers, and smaller portions of the headwaters of the Clyde and Macquarie rivers.

Conservation reserves and other public lands cover most of the western and southern areas of the District, including the Blue Mountains National Park, the Kanangra-Boyd National Park and Nattai National Park (all declared Wilderness Areas). In the east of the District, a smaller network of nature reserves, state conservation areas and regional parks and the Dharawal National Park form nodes for conservation within the landscape.

The District's ecological communities are diverse, reflecting its range of environments. Over the last 200 years, native vegetation has been cleared from much of the flatter. more fertile areas to make way for agriculture and urban development. At least 21 of the vegetation communities in the District are listed as threatened, including Cumberland Plain Woodland, which is listed as critically endangered under both Commonwealth and NSW legislation. Less than 10% of the original Cumberland Plain Woodland remains.

Native vegetation has been cleared from large areas of the Cumberland Subregion and protecting the remaining vegetation is a high priority. Remaining vegetation is highly fragmented and is largely found on privately owned land. In the South West District, land values are high, there is strong competition for land and there is strong population growth. This places pressure on remaining bushland on private land. There are significant opportunities to protect, restore and connect areas of high value bushland in the South West District that can increase the sustainability and resilience of communities in the District,

The South West District is also home to a range of native species. Koalas inhabit the southern areas of the District and are a potentially genetically distinct population, related to the illawarra and Southern Highlands koala populations. Significantly, the Campbelltown koala population is considered to have relatively low levels of disease, compared to other populations. Threatened species in the South West District include the Southern Brown Bandicoot, Broad-headed snake, Camden White Gum, Spike Rice-flower, Deans Paperbark, the Hairy Ceebung and Bargo Ceebung.

The South West District has areas of fertile and productive soils, concentrated in the floodplain along the Nepean River, which have been supporting agricultural activities for over 200 years.

The rural landscapes of the South West District also have important heritage and cultural values.

Due to its topography, climate and patterns of land use, the District is also subject to a number of environmental hazards, such as flooding, extreme heat and bushfires. The water quality of the Nepean River, Georges River, South Creek and other waterways have been degraded by stormwater runoff from urban areas and nutrient and sediment runoff from agricultural areas. Changes to flow rates, as a result of urban development, will need to be carefully managed to retain the structure of stream beds and banks.

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5.2 Enhancing the South West District in its landscape

This draft South West District Plan considers the way the District's diversity of ridgelines. waterways, rural areas and vistas operate within its natural landscape, and how this will change over time. The South West District has an extraordinary opportunity to imagine and plan for a 'parkland city', with South Creek as its centrepiece, where the mosaic of activities and the natural landscape provide the foundation for the area's identity.

Rural and protected landscapes make up 86% of the South West District. While we expect to see a significant increase in the proportion of urbanised area in the future, this presents an opportunity to improve how urban development can help support healthy waterways and ecological systems. This change requires us to look at the successful masterplanned communities that have been designed in the past, and ensure that the landscape drives the new communities of the future, so that when we look to ridgelines, we still see green and trees rather than houses.

This draft District Plan outlines our approach to supporting the South West District in its landscape, and creating it as a parkland city, by addressing four highly interconnected elements:

- healthy waterways, which include natural, artificial and manipulated water systems of the District
- areas of native vegetation, biodiversity and ecological communities
- Sydney's Green Grid of parks and open space, which includes public areas used for sport and recreational activity, as well as the public areas and streets where people connect and linger
- the Metropolitan Rural Area, the rural land in areas like Wollondilly and Camden that includes transitional land between urban and rural areas, land use for food production and landscapes with highly valued scenic views.

5.3 Protecting the natural beauty of District's visual landscape

Across Greater Sydney, communities have developed an appreciation of the visual beauty of scenic landscapes. Scenic landscapes are often associated with particular environmental attributes, and have social and economic value – they can provide communities with a sense of identity, preserve links to Aboriginal and colonial-era heritage and culture and provide opportunities for tourism and recreation.

The Scenic Hills are one of the most important scenic landscapes in the South West District. The Scenic Hills are a complex landscape of peaks and valleys with a prominent ridgeline running roughly north-south from Denham Court in the north to Mount Sugarloaf. This majestic and largely pastoral landscape marks the edge of the Cumberland Plain and is rich with Aboriginal and European cultural significance.

The Scenic Hills form a backdrop to the Campbelitown and Camden local government areas and are visible from many vantage points within and across the District. They are widely recognised as an environmental and cultural asset by the local community.

As the South West District grows, it will become more important to map and recognise these scenic landscapes and develop planning and design approaches to respect and protect them. In some places, such as the Scenic Hills, development controls will need to become more stringent to protect the natural beauty of the landscape, for example, by prohibiting development on the ridgeline.

The Western Sydney Parklands is one of Greater Sydney's most significant corridors of scenic beauty, stretching across the District from Fairfield to Bringelly Road. Since 1968, successive NSW Governments have invested in the Parklands, and now it has become one of Greater Sydney's most valuable assets, providing picnic grounds, protection for heritage and valuable bushland conservation, opportunities for urban farming in the city, major infrastructure corridors, tourism and business hubs and venues for sport. The open spaces and ridgelines of the Parklands provide an important landscape setting for the community.

The Western Sydney Parklands Trust has stewardship over the Parklands, and has developed the Western Sydney Parklands Plan of Management 2020 and the Parklands Plan of Management 2020 Supplement to guide the management of the Parklands. Both of these plans will be updated in 2017. The Trust continues to ensure that both public and private investment in the Parklands, is managed carefully to enhance the scenic and environmental qualities of the Parklands. Ongoing management of the Parklands by the Trust will allow more people to enjoy them as Western Sydney grows.

Transport corridors can be major elements in the visual landscape. The design approach to major transport corridors should consider how the transport infrastructure fits into the landform, the natural and cultural qualities of the area, the views both to and from the corridor, the way people experience scenic landscapes, and how the transport corridor can complement and enhance the scenic qualities of the surrounding landscape.



Sustainability Priority 1: Improve protection of ridgelines and scenic landscapes

The scenic qualities of landscapes are already recognised and considered in some areas of Greater Sydney as part of the strategic planning and development process.

Councils should identify and map areas with high scenic value and develop strategies, planning and development controls that protect important scenic landscapes and vistas. Planning and development controls should prohibit opportunities for development on ridgelines that would diminish their scenic quality.

Councils the South West District are also encouraged to develop a district-wide framework for the identification and protection of important scenic landscapes, vistas and ridgelines which can be used by relevant planning authorities to protect the visual landscape, including landscapes within Priority Growth Areas.

How these matters have been taken into account is to be demonstrated in any relevant planning proposal.



Action S1: Protect the qualities of the Scenic Hills landscape

We will work in collaboration with the Department of Planning and Environment, Camden Council and Campbelltown City Council to deliver appropriate strategies and ensure land use planning controls are in place to protect the environmental, historic, visual and rural landscape character of the Scenic Hills to prevent urban development, urban encroachment and other inappropriate activities and development within the area. Attachment 2



SOUTH WEST DISTRICT

 Strategic Centre
 Hawkesbury Nepean
 South Creek
 Waterway

 Image: Strategic Centre
 Parramatta River
 Coastal Catchment
 Waterway

 Image: District Centre
 Parramatta River
 Coastal Catchment
 Vaterway

 Image: District Boundary
 Ceorges River
 Sydney Drinking Water Catchment

Source: Creater Sydney Commission, 2016

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5.4 Protecting the District's waterways

The District's rivers and waterways will be key to our future planning. Our planning must protect and enhance the Nepean and Georges Rivers and ensure South Creek is enhanced and featured as the principal spatial organising element for the South West Priority Growth Area and the Western Sydney Airport area that it also passes through.

Other Important watercourses include Kemps Creek, Eastern Creek, Badgerys Creek, which flow into South Creek, Bunbury Curran Creek, Cabramatta Creek, Hinchinbrook Creek, Prospect Creek and Williams Creek which flow into the Georges River and the Cataract River, Bargo River and Bringelly Creek which flow into the Nepean River.

Much of Greater Sydney's drinking water catchment is found in the South West District, including the catchment of Lake Burragorang and catchments on the upper reaches of the Cataract River and Cordeaux River.

Voyager Point Wetlands on the Georges River near Holsworthy is listed on the Directory of Important Wetlands in Australia. The 50-hectare wetland is considered nationally important, as it is a good example of a freshwater wetland and supports native plants and animals considered endangered or vulnerable. It also provides habitat for migratory birds.

Some waterways within the District are protected within national parks while others have been affected by urban and agricultural development, changing the quality and quantity of these networks. Future urban development will also have an impact on the waterways in the South West District, particularly South Creek, which will need to be carefully managed.

Greater Sydney's other major waterways would benefit from clear strategic plans to guide protection, enhancement and access. Many waterways are managed by a range of stakeholders and we have a clear role to play in facilitating collaboration between these stakeholders. We will explore new forms of governance arrangements for the "Blue Grid" of waterways in this regard during the review of *A Plan for Growing Sydney* in 2017.



Sustainability Priority 2: Maintain and improve water quality and waterway health

The Office of Environment and Heritage and the Environment Protection Authority have developed a risk-based framework to assist decisions that maintain, improve or restore water quality in the strategic planning process to help meet the NSW Water Quality and River Flow Objectives.

Relevant planning authorities and managers of public land should:

- adopt the Office of Environment and Heritage and the Environment Protection Authority's framework to determine the appropriate stormwater and wastewater management targets that contribute to maintaining or improving water quality and waterway health to meet the community's values
- consider more water sensitive approaches to managing stormwater to meet the water quantity and quality targets, including harvesting and re-use of water and management of riparian corridors
- develop mechanisms to allow offsetting between sub-catchments, and facilitate cost-effective opportunities to meet the management targets for whole catchments and water quality objectives for receiving waters
- while management targets are being established, ensure that the quality of stormwater and wastewater from public land and new development in established urban areas maintains or improves the health of waterways, in line with community values and expectations of how waterways will be used.

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Action S2: Review criteria for monitoring water quality and waterway health

State agencies and councils currently apply a range of approaches to managing the District's waterways, which often flow through more than one local government area, reducing the potential to meet water quality objectives.

For the South West District, these objectives cover a range of matters including protection of aquatic ecosystems, primary and secondary recreation, the attractiveness and cleanliness of the waterway and agricultural water for irrigation and livestock.

We support monitoring programs that have consistent indicators and criteria that track progress towards meeting the community's environmental values and long-term goals set out in the NSW Water Quality and River Flow Objectives (available from http://www. environment.nsw.gov.au/ieo/), noting that it can help target where management actions are needed to maintain water quality across the District. As data becomes available, it will be reported annually on the Greater Sydney Dashboard (see Section 1.2.4).

The Office of Environment and Heritage will-

- recommend criteria for monitoring water quality and aquatic ecosystem health for the different waterways in the District. linked to the NSW Water Quality and River Flow Objectives and national guidelines
- collaborate with councils and other stakeholders to undertake monitoring based on the recommended criteria for each waterway type, as resources become available
- encourage complementary monitoring programs that can help fill gaps in data on water quality and ecosystem health and raise community awareness and support for the protection of waterways
- provide open access to water quality and waterway health data through an Information Asset Register.



Action S3: Protect the South Creek environment and development approaches to achieve excellent environment performance

South Creek is one of the major tributaries of the Hawkesbury-Nepean River, South Creek begins in the South West District in Gregory Hills and flows north until reaching its confluence with the Hawkesbury River near Windsor. Its tributaries include Badgerys Creek, Kemps Creek, Ropes Creek and Eastern Creek.

While only 20% of the catchment is urbanised. this will increase to 80% over the next 50 years, including the development of Western Sydney Airport.

Some of the catchment includes natural and recreational areas used for recreational fishing and as habitat areas: however, approximately 74% of the catchment's waterways are degraded and the remaining 26% in a moderate condition.

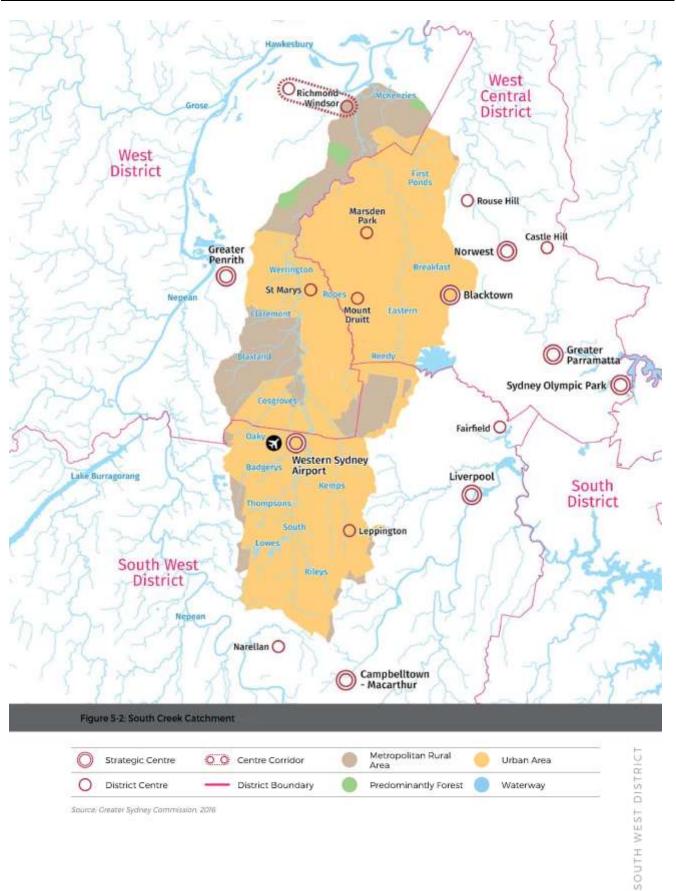
Major issues include:

- poor water quality, including elevated nutrient levels
- significantly altered flows due to sewage treatment plant discharges and increased peak flows during wet weather, which is resulting in severe bank erosion
- algal blooms and excessive aquatic weed growth.

The degradation of South Creek has a downstream impact on the health and amenity of the Hawkesbury River, particularly between Windsor and Sackville

Future development in the South Creek catchment represents an opportunity to deliver an integrated approach to development that supports community expectations for the waterway, as identified in the NSW Water Quality Objectives and River Flow Objectives. These guidelines helped to consider community values for water quality in decision-making.

Statutory mechanisms, such as a Protection of the Environment Policy as detailed under the Protection of the Environment Operations Act 1997, could specify waterway health outcomes that public authorities must consider. Similar guidance is being developed for the Illawarra-Shoalhaven Regional Plan (see case study).



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This approach could connect waterway health outcomes to local strategic planning and development control, while informing other programs and regulatory decisions in the catchment.

CASE STUDY: Working towards water sensitive growth

Lake Illawarra is a popular coastal location for tourists and supports a productive commercial and recreational fishery as well as a range of endangered ecological communities. Water quality issues in the lake are long-standing and evident in some parts of the lake.

The Illawarra-Shoalhaven Regional Plan adopts the Office of Environment and Heritage and the Environment Protection Authority's framework that protects community benefits associated with the ecological health of the lake from any adverse effects of development in the catchment. The risk-based framework can be used as a strategic planning tool for assessing water quality management requirements for new development. including design of water guality strategies and infrastructure, and tailoring development controls and conditions of consent to manage the quality of water reaching Lake Illawarra.

We will:

- work with the Environment Protection Authority and request the Authority lead an investigation into a Protection for the Environment Policy for the South Creek catchment, working with councils and other stakeholders
- coordinate investigation of innovative approaches to urban design, integrated water cycle management, biodiversity and riparian and open space management by other agencies and utilities
- aim for this investigation to define an identity and character of future urban development associated with the Western City.



Action S4: Improve the management of waterways in Priority Growth Areas

The South West Priority Growth Area and Western Sydney Priority Growth Area will be two of the main drivers of the District's greenfield land releases, providing land for new communities for the Western City.

The Department of Planning and Environment will establish a development code for Priority Growth Areas across Greater Sydney that includes guidelines for the management of riparlan corridors, with the objective of stabilising banks, maintaining water quality, protecting woodland corridors, cooling the urban environment, improving amenity and providing habitat for native species and ecological communities.



Action 55: Monitor water levels and water quality in Thirlmere Lakes

The Thirlmere Lakes are part of the Creater Blue Mountains World Heritage Area. In recent years, there have been community concerns about low water levels in the lakes.

The Office of the Environment and Heritage will develop a program of research and monitoring to detect changes in water levels, effects on World Heritage values of Thirlmere Lakes and explore and evaluate any remedial action that may be applicable.

5.4.1 Managing the District's estuaries

In the South West District, the lower reaches of the Georges River, below the weir at Liverpool, are tidal and have been identified as part of the coastal estuary of the Georges River. Coastal estuaries can be affected by a range of coastal processes, such as wind, waves, storm events and changes to the climate. These processes continually influence the estuary and require effective management.

The Coastal Management Act 2016 directly integrates coastal management and planning requirements into local land use planning responsibilities under the Environmental Planning & Assessment Act 1979. Coastal management programs will be required in councils' community and strategic planning and integrated planning and reporting under the Local Government Act 1993.

Coastal management programs will guide land use planning decisions so that they better reflect coastal management issues at a district level. They may be developed for the whole or any part of the coastal zone within a local government area or across a district.

The NSW Covernment will provide \$83.6 million across NSW from 2016 to 2021 to:

- enable the preparation of coastal management programs
- support coastal councils to implement coastal management programs
- support delivery of state-wide science and technical advice
- review and assess programs and proposals to ensure consistency with the new coastal management framework.

5.5 Protecting and enhancing biodiversity

People living in the South West District benefit socially and economically from biodiversity and natural ecosystems – our ambition for the District is to become a parkland city which will reinforce the area's cultural identity. Conservation of biodiversity is closely related to landscape, tourism and recreational values. Ecologically sustainable development requires a healthy environment which is capable of providing biodiversity and natural resources on which all economic activity depends.

Established urban areas in the South West District contain areas of bushland that are important for biodiversity, as well as for their contribution to the visual landscape, waterway health and other environmental processes. Many areas of urban bushland are on public land managed by local councils, while some urban bushland is found on privately owned land. We will examine opportunities to strengthen the protection of bushland in urban areas as part of the review of *A Plan for Growing Sydney* in 2017.

The protection of habitat in rivers and estuaries and aquatic threatened species should also be considered in future planning for the South West District. The *Fisheries Management Act* 1994 contains separate offsetting measures to manage the impact of activities on aquatic habitats.

Conservation outcomes can be delivered more effectively and efficiently through strategic planning at the landscape level, rather than on a site-by-site basis. This is because strategic planning can consider opportunities to connect areas of biodiversity, the relationship between different areas and threats to natural features. Strategic planning can also consider the effects of conservation efforts across the landscape. District planning is, therefore, a vital part of the ongoing process of protecting and enhancing biodiversity in the landscape.

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In 2014, the Independent Blodiversity Legislation Review Panel, as part of the review of blodiversity legislation in NSW, supported the consideration of blodiversity at the landscape scale and recommended the use of blodiversity certification, focused on proposed highintensity development areas that also contain important environmental values.

The NSW Government has endorsed the Independent Panel's recommendations and in response, has developed a fresh approach to strategic conservation planning in Creater Sydney, with an initial emphasis on strategic environmental assessment and biodiversity certification of conservation planning in the South West, West Central and West Districts. In these districts, and particularly in the South West and West, strategic conservation planning will be a key strategy for balancing conservation outcomes with growth and development.

The objectives of strategic conservation planning for the South West District are to:

- maintain, and where possible improve, the conservation status of threatened species and threatened ecological communities
- achieve better outcomes for biodiversity conservation than the outcomes that could have been achieved by site-bysite or project-by-project efforts
- facilitate urban growth and development in line with A Plan for Growing Sydney and this draft District Plan
- provide an equitable model for recognising and recovering the cost of biodiversity impacts from urban growth and development
- reduce the potential for land use conflict
- reduce the cost and timeframes for development approvals, including approvals for infrastructure

The Commission supports this strategic approach to protecting biodiversity in the South West District. This complements the delivery of Sydney's Green Grid (see section 5.6). The Commission also supports the use of local knowledge and expertise to identify fine-grain opportunities to connect and enhance smaller pockets of biodiversity in the landscape.



Sustainability Priority 3: Avoid and minimise impacts on biodiversity

Efforts to protect biodiversity values should be based on avoiding and minimising adverse impacts to biodiversity, as far as practicable. Only when impacts cannot be avoided or minimised, should consideration be given to offsetting those impacts.



Action S6: Develop a Strategic Conservation Plan for Western Sydney

The Department of Planning and Environment, the Office of Environment and Heritage and the Commission will work in partnership to develop a Strategic Conservation Plan to introduce a new approach to protecting biodiversity in the West, West Central and South West Districts. Strategic conservation planning will:

- streamline assessments and reduce costs for major development projects and development in Priority Growth Areas
- provide opportunities to protect biodiversity offset sites in perpetuity on both public and private land, with funding for ongoing management
- help connect areas of biodiversity to waterways and Sydney's Green Grid
- provide certainty for the public and landowners and limit speculation on the future development potential of land in the Metropolitan Rural Area (see Section 5.7)
- integrate biodiversity planning across District boundaries
- retain existing vegetation and habitat where possible, and deliver offsets close to the place where biodiversity is lost

We will support the NSW Government's work to develop a Strategic Conservation Plan for the West, West Central and South West Districts.

ANAL NSW

Action S7: Update information on areas of high environmental value

Detailed information on areas of high environmental value is available from sources including the Office of Environment and Heritage and councils. High quality vegetation mapping is available for most of Greater Sydney. Where necessary, data and mapping will be ground-truthed to improve its accuracy and effort will be directed towards surveys that fill any information gaps.

The Department of Planning and Environment and the Office and Environment and Heritage will:

- work with councils to update map data layers on areas of high environmental value as new information becomes available
- continue to make data on areas of high environmental value available to relevant planning authorities and the public.

Biodiversity offsets to protect biodiversity

The NSW Government has introduced a biodiversity offsets scheme to help address the loss of biodiversity values, including threatened species, due to habitat degradation and loss.

Biodiversity offsets are a market-based scheme that provides a streamlined biodiversity assessment process for development, a rigorous and credible offsetting scheme as well as an opportunity for rural landowners to generate income by managing land for conservation.

Biodiversity credits' can be generated by landowners and developers who commit to enhance and protect biodiversity on their land. These credits can then be sold, generating funds for the management of the site. Credits can be used to offset the loss of biodiversity that might occur as a result of development. The credits can also be sold to those seeking to invest in conservation outcomes, including philanthropic organisations and government.

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5.6 Delivering Sydney's Green Grid

A Plan for Growing Sydney identifies the opportunity to create Creater Sydney's Creen Grid, and noted that delivering a city-wide green grid would promote a healthier urban environment, improve community access to recreation and exercise, encourage social interaction, support walking and cycling connections and improve the resilience of Greater Sydney.

This draft District Plan builds on the concept of Greater Sydney's Green Grid. We see the Green Grid as a major legacy for future generations.

We have developed a long-term vision for Sydney's Green Crid with an appreciation of Greater Sydney's landscape and recognition of its diversity of elements and connections, including the Blue Grid of estuarles and waterways that shape the patterns of the District's development, the variety of parks and open spaces and connections to bushland, from local pockets of native vegetation to the Greater Blue Mountains World Heritage Area, Our detailed report, which outlines the conceptual approach behind Sydney's Green Grid is available in our background papers at www.greater.sydney.

By recognising the different ways people use open space now and into the future, and by planning for open space as a Green Grid, there are more opportunities to provide:

- Amenity: Open space, in particular less formal open spaces such as bushland or natural waterways, which can influence a place's character, with biodiversity and waterways having an intrinsic value that must be recognised when planning at a wider scale.
- Activity: With a growing population, more people will require access to more parks and sporting grounds for organised sport and recreation.
- Accessibility: These spaces need to be connected through a network of streets, places and public areas in a ways that make it easier to walk or cycle.

Our objectives for Greater Sydney's Green Grid are for a highly connected and diverse network that:

- increases access to open space
- · promotes good health and active living
- creates new high quality
- public areas and places
- makes the urban environment more green
- enhances green spaces
- promotes green skills in bushland and waterway care and restoration
- improves access to sport and recreation
- delivers better tools for future open space planning.

The historic Upper Prospect Canal brings water from the dams of the Upper Nepean Catchment to the Prospect Reservoir along a 50 kilometre channel, which is a natural gravity flow, dropping about a metre every kilometre and flowing through bush as well as urban areas. This area could be envisioned as an amazing walkway or cycleway that connects to other elements.

Other open space areas include parts of the Blue Mountains National Park, Nattai National Park and Dharawal National Park: Bents Basin State Conservation Area, the Australian Botanic Carden Mount Annan, Gulguer Nature Reserve, the Western Sydney Parklands; and sporting and recreation areas such as Warwick Farm Racecourse and Campbelltown Sports Stadium.



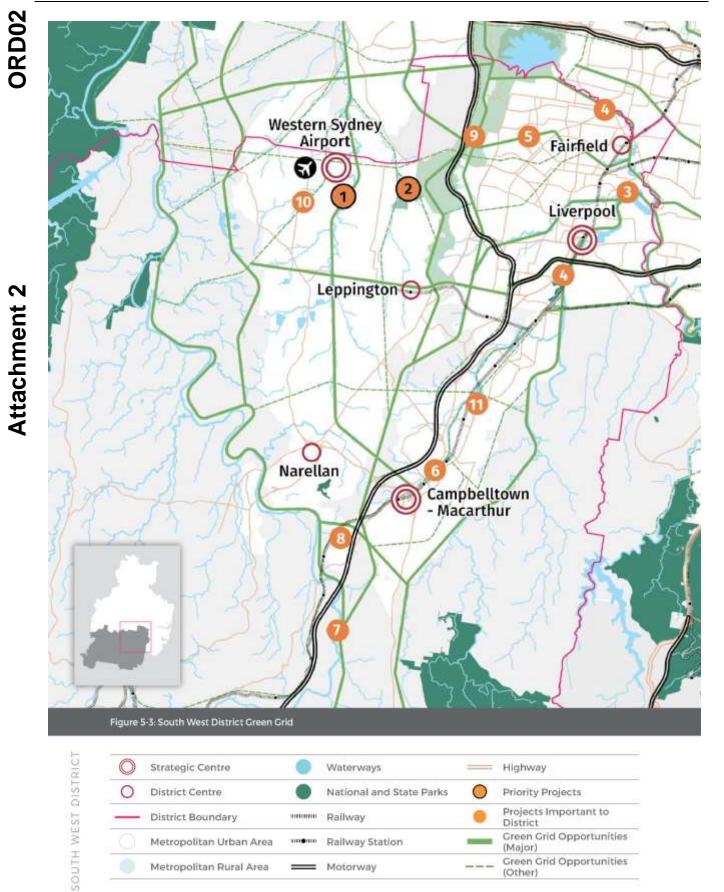
SOUTH WEST DISTRICT

Different types of open spaces serve different purposes. The Sydney Open Space Audit, available at www.greater.sydney. has categorised open space as either regional open space, district open space or local open space. Regional open space has a regionwide catchment, serving communities across Greater Sydney. District open space serves a number of neighbourhoods or suburbs, with a catchment that often extends across council boundaries.

Regional open space makes up almost half (49%) of the South West District's area and bushland makes up over 95% of all open spaces in the South West District. While the majority of regional open space in the South West District is protected in national parks and reserves, there are regional open spaces. dispersed throughout the entire District. As a result, all residents including those in rural areas are located within 10 kilometres of regional open space. Our long-term vision for Sydney's Green Grid in the South West District is shown in Figure 5-3.

We have identified two priority Green Grid projects for the South West District, as shown on Map 5-3 and described below.





Source: Creater Sydney Commission 2016

Attachments for the Ordinary Council Meeting held on 28 March 2017 - Page 284

Prio	rity Projects
1	South Creek Corridor
	Creating a continuous open space corridor along the entirety of South Creek that provides ecological protection and enhancement, better stormwater treatment and a regionally significant corridor for recreation uses.
2	Kemps Creek and Kemps Creek Nature Reserve
	Creating a regionally significant open space corridor that provides ecological protection and enhancement. Improved water quality and recreational opportunities for growing communities around Kemps Creek. While Kemps Creek Nature Reserve is not accessible to the public, it can form part of an important corridor with a mix of conservation areas and areas open to the public for recreation.
Oth	er important projects to deliver Sydney's Green Grid in the District
0	Georges River Parklands and Chipping Norton Lakes
	Enhancing the Georges River as a regional open space and active transport corridor, as well as protecting and enhancing the wetlands, ecological communities and improving stormwater management from surrounding development.
0	Prospect Creek and Prospect Reservoir Parklands
	Creating a continuous open space and active transport corridor from the Western Sydney Parklands and Prospect Reservoir to the Georges River.
0	Five Fairfield Creeks - Clear Paddock and Cabramatta Creeks
	Creating a continuous network of high quality parklands and active transport corridors for the region, from the Western Sydney Parklands to the Georges River. The Five Fairfield Creeks are a network of creeks that flow into the Georges River a Chipping Norton Lakes. They are Cabramatta Creek, Hinchinbrook Creek, Clear Paddock Creek, Orphan School Creek and Green Valley Creek.
0	Bunbury Curran Creek and Bow Bowing Creek
	Using the open space corridors along the creeks to provide open space, urban greening, active transport and stormwater treatment along the corridor.
0	The Upper Canal
	Protecting drinking water infrastructure while making use of the space along the canal as open space, urban greening ar active transport corridor.
8	Camden Park and Menangle to Georges River Open Space Corridor
	Connecting a band of open space in a unique geographic setting where the Nepean and Georges River are only four kilometres apart.
0	Western Sydney Parklands and Eastern Creek
	Improving connectivity from adjacent Green Grid projects into the Western Sydney Parklands.
0	South Western Creeks, Badgerys and Cosgrove Creeks
	Planning for open space along tributaries of South Creek that will play an important role in providing open space for growing communities in the South West Priority Growth Area.
0	Kayess Park Open Space Corridor, Ingleburn
	Creating an east west open space corridor that connects Georges River to communities at Ingleburn, Minto, Bow Bowing and Raby,



Sustainability Priority 4: Align strategic planning to the vision for the Green Grid

Consistent with Action 3.2.1 of A Plan for Growing Sydney, relevant planning authorities should consider opportunities to support the delivery of the South West District Green Grid. This could include how land use zones can be applied, how new development controls are written, or where voluntary planning agreements and agreements for dual use of open space and recreational facilities could contribute to delivering the Green Grid.

How these matters have been taken into account need to be demonstrated in any relevant planning proposal.

Trees in the urban environment provide many benefits. A green canopy provides shade to reduce the ambient temperature at ground level, provides habitat for biodiversity and enhances the look of the urban landscape. Trees in the urban environment also provide benefits by removing fine particles from the air and improving air quality. This is particularly important along busy road corridors. Some councils in Greater Sydney have already mapped areas at the greatest risk of becoming urban heat islands and are using this information to prioritise planting of shade trees to adapt and respond to a changing climate. The Draft Climate Change Fund Strategic Plan includes an action to increase tree canopy coverage in heat exposed suburbs.





Sustainability Priority 5: Protect, enhance and extend the urban canopy

When making strategic plans, relevant planning authorities should consider how tree canopy cover in land release and established urban areas can be protected and increased, with a focus on providing shade to streets.

Local councils should include green cover and shade tree planting along major transport corridors in local infrastructure investment planning, development control and design.

How these matters have been taken into account is to be demonstrated in any relevant planning proposal.



Action S8: Use funding priorities to deliver the District Green Grid priorities

Consistent with Action 3.2.1 of A Plan for Growing Sydney, councils have a leading role in delivering the South West District Green Grid priorities through their planning and investment in open space. Funding programs managed by the NSW Government can be used to extend and enhance open space as part of the Green Grid. These are:

- Metropolitan Greenspace Program: matches funding contributions from councils to improve open spaces for recreational purposes and to create links between bushland, parks, waterways and centres.
- Environmental Trust grants programs: fund projects that rehabilitate or regenerate the environment, or promote environmental education and sustainability.
- Sydney's Walking Future and Sydney's Cycling Future programs: aim to improve walking and cycling connections.

We encourage councils to apply for funding through these programs to deliver the South West District Green Grid priorities. We will oversee the distribution of Metropolitan Greenspace Program grants.



Action S9: Develop support tools and methodologies for local open space planning

As the South West District grows, demand for open space and recreation areas will increase. There may also be increased demand for different types of open space to meet changing community needs.

The Commission will provide local councils with a toolkit of resources and a consistent methodology that will help councils plan for the active recreation and open space needs of their communities. The toolkit will recognise the widely varying contexts that influence opportunities to provide open space across Greater Sydney.



Action S10: Update the Urban Green Cover in NSW Technical Guidelines to respond to solar access to roofs

The Urban Green Cover in NSW Technical Guidelines were developed to increase resilience to urban heat island impacts and help communities prepare for the impacts of climate change. The Guidelines cover vegetation, as well as permeable and reflective surfaces to minimise local temperatures and encourage evaporation from soil and plants. In the vegetation section, the guidelines identify issues that councils should consider when selecting trees such as tolerance to air and water pollution, drought or waterlogging, wind tunnelling, overshadowing and reduced sunlight, as well as lifespan and the location of underground and overhead services,

The Office of Environment and Heritage and the Department of Planning and Environment, through their participation in the Low Carbon Living Cooperative Research Centre, will review the Urban Green Cover in NSW Technical Guidelines to investigate taking solar access to roofs into consideration. This will mean trees selected to increase canopy cover do not overshadow roofs that have the potential to accommodate solar hot water systems and solar panels.

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5.7 Managing the Metropolitan Rural Area

A Plan for Growing Sydney adopted the term Metropolitan Rural Area to describe the nonurban areas at the periphery of Greater Sydney. It is Important to recognise that a significant proportion of this area's bushland is in public ownership in the form of national parks.

The Metropolitan Rural Area has a range of environmental, social and economic values, including scenic landscapes, habitat and biodiversity, mineral and energy resources, water supply catchments, tourism, heritage and cultural assets and areas of productive agriculture.

It also supports small rural villages and areas of low intensity rural-residential development, providing opportunities for people to live in a rural setting.

In the South West District, the Metropolitan Rural Area features open paddocks and the long roofs of the poultry sheds; dairy cows and persimmon trees; Asian greens and alpacas. It also includes the towns and villages of Picton, Tahmoor, Bargo, Cobbitty, The Oaks, Warragamba-Silverdale and areas of Horsley Park and Cecil Park west of Fairfield.

There is widespread support for the continuation of agricultural production in the Metropolitan Rural Area. For this to be achieved, it is important to recognise existing and potential conflicts between these different land uses and activities and the various pressures on continuing agricultural production. Ultimately, our ambition is to see the area as an interconnected system rather than individual activities on individual parcels of land. For example, there are many public values on private land including scenic values, ecosystems services such as riparian corridors that maintain water quality in creeks and waterways or biodiversity. Conversely, private values such as continuing poultry production requires appropriate setbacks and public infrastructure to operate.

Our approach to the challenges facing the Metropolitan Rural Area is similar to the approach we take for Greater Sydney as a whole - that is, to recognise the pressures as a dynamic force that can be harnessed and redirected to achieve social, economic and environmental benefits. The interaction of these competing interests and the variation in landscape and patterns of activity is complex and varies across the Metropolitan Rural Area. It is not a matter of planning to avoid tensions between activities - these activities are already interspersed it is instead a challenge to manage these interactions and develop approaches to distribute costs and benefits equitably, in the context of clearly defined outcomes.

Mapping the range of environmental, social and economic values has been completed as part of a report on considerations for district planning in the Metropolitan Rural Area, however mapping and understanding the range of values can only provide the basis for a more place-based or locality-specific approach to strategic planning that recognises the complexity of these areas. This will take time and require consultation due to the varying expectations of existing landowners and the public interest.

Despite the variation across the Metropolitan Rural Area, common tensions that will need to be resolved on a locality-by-locality basis include:

- biodiversity and ecosystem services on private land and the need to conserve and maintain them
- the value of land for agricultural production being less than the value from having access to, and being part of, the metropolitan area
- the impact of intensive agricultural production on adjoining properties
- pressures on the profitability and competitiveness of particular agricultural activities due to both national and global restructuring of agricultural production.

In Greater Sydney's semi-rural areas, land values are shaped by both the value of being close to the city (the urban effects) and the value of the land for agricultural production (the agricultural effect). Land values have increased due to demand for rural lifestyle properties that are close to the city.

The demand for lifestyle properties will increase. Lifestyle rural residents generally expect the amenity of suburbia and this often results in conflict with existing agricultural activities and inhibits future intensification. There is also an expectation that the services provided in

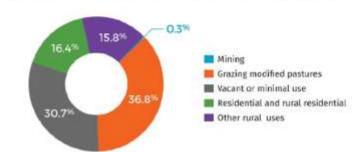


Figure 5-4: South West District Metropolitan Rural Area - land and uses on privately owned land

Source: Greater Sydney Commission, adapted from the Considerations for District Planning in the Metropolitan Rural Area of the Greater Sydney Region report, AgEconPlus 2016

urban areas including schools and community facilities, or mains water, sewerage and in some cases, roads with kerbs and guttering will be provided.

These conflicts, combined with the expectation that land can be subdivided or rezoned at a future date for urban development, can further reduce productivity, leading to under investment.

The long-term potential of the Metropolitan Rural Area needs to be seen in relation to the emerging Western City. From this perspective, there is potential for the Metropolitan Rural Area to become a parkland city with possible links to food processing and logistic terminals around the Airport for domestic consumption and export. These opportunities will be explored and developed as part of the review of A Plan for Growing Sydney in 2017.

More than 70% of the Metropolitan Rural Area within the South West District is publicly-owned land. Figure 5-4 above shows the different types of uses on privately owned land in the South West District's portion of the Metropolitan Rural Area, and highlights that most rural land is either used for grazing or is not actively used. Compared to other districts in Greater Sydney, the South West District has more land devoted to irrigated and intensive forms of agriculture.

There are three agricultural clusters in the South West District:

 irrigated horticulture, around Warragamba-Silverdale, with potatoes, lettuce, sweet corn and tomatoes being the most valuable horticultural products, with

- some poultry production as well
- multi-use irrigated horticulture cluster, in the Cobbitty and Camden area, with poultry, vegetables and whole milk being the most valuable forms of production
- poultry sheds close to Appin, with some dairying as well.

Rural land in the South West District is used for a variety of agricultural activities. While grazing on pastures is the most common agricultural activity in the South West District in terms of the amount of land uses, the most valuable activities are the production of poultry and eggs, nurseries, cut flowers and turf and vegetable production.

There are also a number of extractive industry operations in the South West District, producing construction materials such as clay. These industries are vital as part of the overall supply of construction materials to support growth and urban development across Greater Sydney. Sydney Regional Environmental Plan No.9 - Extractive Industry sets out the NSW Government's approach to identifying and facilitating the development of extractive resources in Greater Sydney and the Central Coast. These types of mineral extractive industries used for construction are not subject to the Strategic Release Framework (available from www.resourcesandenergy.nsw.gov. au), which is directed to coal and petroleum (including coal seam gas) exploration.

There are substantial mineral resources in the south of the District in the Camden, Picton, Wilton, Appin and Bargo areas, linked to the 5

District's coal and coal seam gas resources. Coal mining already takes place, producing coal for energy and metallurgical coal, and mining and petroleum and gas titles also show areas with potential for mining in the future.

The NSW Government provides information on existing and potential future mineral and energy resource operations across Greater Sydney, such as in the Minerals Resource Audit, and this information can be found at the Common Ground website at www.commonground.nsw. gov.au.

Potential exists for land use conflicts. The NSW Government has policy and legislative tools to support the sustainable development of mineral and energy resources while protecting the environment, agricultural land, the health of communities and supporting growth in housing and employment. These policy and legislative tools include.

- phased land uses commensurate with development phases of a mineral (including extractive) and energy resource industry
- the Environmental Planning and Assessment Act 1979
- the Protection of the Environment Operations Act 1997
- the Mining Act 1992 and the Petroleum (Onshore) Act 1991
- State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007
- Land Use Conflict Risk Assessment Guide
- Preliminary Regional Issues Assessment for Potential Coal and Petroleum Exploration Release Areas.

A Plan for Growing Sydney recommends a strategic framework and criteria to assist decision-making in the Metropolitan Rural Area. In line with Action 4.1.2 of A Plan for Growing Sydney, we have mapped and analysed overlapping multiple activities and Metropolitan Rural Area values for each district. A conclusion of this work is that given the complexity and variation across the area, a design-led response is likely to be more appropriate and effective than relying on generic criteria for managing the multiple interests and values, activities and conflicts that vary from locality to locality. Design-led planning is a proactive, consultative planning process that identifies a desired outcome for a specific area, based on its characteristics, future opportunities and community values, as well as potential pathways to reach this outcome (see Section 4.6.1). This is a more holistic and integrated approach than a criteria response, which in this case manages growth and change on a site by site or project by project basis, applying a set of criteria to weigh up the benefits or costs of each project.



Sustainability Priority 6: Discourage urban development in the Metropolitan Rural Area

Urban development in the Metropolitan Rural Area is not consistent with the protection of the Area's existing values. Conversion of land to urban residential development is not necessary in the short to medium term given the supply of land for housing in other parts of Greater Sydney, and conversion of rural land to suburban development does not form part of the housing targets that have been defined for the District or individual local government areas.

In general, urban development in the Metropolitan Rural Area will not be supported unless the relevant planning authority has undertaken strategic planning in accordance with Sustainability Priorities 7 and 8.

Relevant planning authorities should not support planning proposals affecting land currently within a RU (rural) or E (environmental) zone unless:

- these are in areas identified in a regional plan or a district plan as urban investigation areas
- these also form part of, or are identified as a result of, strategic planning in accordance with Sustainability Priorities 7 and 8.

In the South West District, West Appin has been identified as an urban investigation area, consistent with Figure 2 and Action 2.4.2 of A Plan for Growing Sydney.

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Sustainability Priority 7: Consider environmental, social and economic values when planning for the Metropolitan Rural Area

Agriculture and primary industries are essential to Greater Sydney and to the South West District's economy. They need to be planned and protected to avoid their transition to higher and better uses (in financial terms) such as suburban residential development.

In planning for the Metropolitan Rural Area, the relevant planning authority should undertake its own review of land use activities in the context of environmental, economic and social values, and consider our research regarding the multiple values and activities in their District to better understand how they are operating, the range of uses operating within them, their interdependencies, key constraints and opportunities to their effective operation and evolution.

On this basis, when planning for the Metropolitan Rural Area in the South West District, relevant planning authorities should consider how to:

- provide greater certainty with regards to built form outcomes in and around villages
- articulate the different landscape and heritage values and character of rural areas, with different planning and development controls
- clarify the what the future should be for rural lands to prevent speculation and protect against encroachment
- conserve Aboriginal cultural heritage
- maximise opportunities from the agriculture industry's proximity to Western Sydney Airport.

The resolution of a preferred alignment for the Outer Sydney Orbital will change the structure of major transport corridors in the South West District, and flowing from this, the relationship between transport corridors and land use boundaries. These relationships will be considered as part of the review of A Plan for Growing Sydney in 2017.





Sustainability Priority 8: Provide for rural residential development while protecting the values of the Metropolitan Rural Area

Rural landscapes provide opportunities for housing in rural towns and villages, as well as rural residential living that is already dispersed throughout the Metropolitan Rural Area. Any plans to expand rural towns and villages must first consider how these places fit in the landscape and how their valued characteristics can be protected and extended sympathetically in order to optimise their cultural and economic potential. This will involve analysis of the key characteristics of these towns and villages as part of a design-led approach.

Consideration of further subdivision for rural residential development should be approached in a similar way, with careful consideration of siting, impacts and potential to improve and ensure ongoing maintenance of biodiversity, ecological, scenic and productive values.

Relevant planning authorities should adopt a design-led approach to planning for localities that:

- considers siting and design principles for rural residential development that conserves the values identified in the report on considerations for district planning in the Metropolitan Rural Area
- considers restrictions on additional rural residential development that may be affected by existing or future rural and agricultural activity
- considers setbacks and defines appropriate buffers for rural activities
- investigates and develops innovative approaches to conserve and manage biodiversity, habitat and scenic landscapes.

Councils should liaise with the Commission to develop design-led approaches for the Metropolitan Rural Area and in the first instance use the design approaches outlined in the NSW Government's draft Architecture and Urban Design Policy. Better Placed (October 2016).

How these matters have been taken into account is to be demonstrated in any relevant planning proposal.

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5.8 Creating an efficient South West District

Increasing a city's efficiency reduces impacts on the environment and the city's carbon footprint while increasing productivity. This means progressive reduction in carbon emissions, potable water use, and waste. It also means upgrading the District's grey grid of ageing infrastructure with a focus on urban renewal areas and precincts. Incorporating water sensitive urban design measures as areas develop will help vegetation growth and protect waterways. Maximising local water recycling and the potential for stormwater harvesting can create opportunities for greening public open spaces including parks, ovals and school playgrounds.

The NSW Government has a number of policies that aim to improve energy and resource efficiency and reduce greenhouse gas emissions. These include:

- NSW Climate Change Policy Framework
- Draft Climate Change Fund Strategic Plan
- NSW Government Resource Efficiency Policy
- Waste Avoidance and Resource Recovery Strategy 2014-21
- Metropolitan Water Plan.

Improving resource efficiency is critical to reducing greenhouse gas emission reductions to meet the NSW Government's target of net zero carbon emissions by 2050, in line with Australia's international commitments to combat climate change. The Commission's ambition is to make Greater Sydney a net zero carbon emission city by 2050.

Making more efficient use of water, energy, fuels and materials and improving the management of waste and recycling will help Greater Sydney become more sustainable and also help minimise risks from potential future rises in the costs of energy.

The NSW Climate Change Policy Framework

In December 2015, Australia and 194 other countries agreed on the United Nations Paris Agreement on climate change. The key objectives of the Paris Agreement include:

- a goal to limit the increase in global temperatures to well below 2°C and pursue efforts to limit the rise to 1.5°C
- a commitment to achieve netzero emissions globally, by the second half of the century.

The NSW Government endorses the Paris Agreement, and has released the NSW Climate Change Policy Framework, outlining how NSW will take action that is consistent with Australia's commitment to the Paris Agreement.

The NSW Climate Change Policy Framework sets out two aspirational objectives for the State, to achieve net zero emissions by 2050; and to be more resilient to a changing climate. These long-term objectives aim to attract investment in renewable energy and energy efficiency, guide public and private sector decision-making, and help make NSW Government policy consistent with national and international policy on climate change.

To implement the NSW Climate Change Policy Framework, the NSW Government has prepared the *Draft Climate Change Fund Strategic Plan*, which sets out priority investment areas and potential actions using \$500 million of new funding from the \$1.4 billion Climate Change Fund over the period from 2017 to 2022, to help NSW make the transition to a net-zero emissions future and adapt to a changing climate.

5.8.1 Waste management

Waste management infrastructure across Greater Sydney is largely managed and owned by the private sector.

The South West District has a number of waste treatment facilities including landfills, transfer stations and organics treatment facility. A *Plan for Growing Sydney* noted the need for additional waste and recycling facilities to help manage demand as Greater Sydney grows.

The District's industrial precincts could house waste management facilities. Including locations for recycling municipal waste, recycling commercial and industrial waste and recycling hazardous materials from households.



Sustainability Priority 9: Support opportunities for District waste management

When making plans, relevant planning authorities should:

- use appropriate land use zones to minimise the potential for conflict with the operation and expansion of existing waste facilities
- protect precincts that have functioning waste management facilities from encroachment by residential and other sensitive development
- consider ways to encourage design measures such as fully enclosing waste facilities to minimise dust, odours and noise impacts to mitigate the risks and potential impacts on surrounding communities.

How these matters have been taken into account is to be demonstrated in any relevant planning proposal.



Action STI: Identify land for future waste reuse and recycling

As the South West District grows, the need to manage waste will grow. In the new higher density neighbourhoods created around the centres of Liverpool or Campbelltown, there may be opportunities to improve the efficiency of waste collection services by introducing innovative precinct-based waste collection, reuse and recycling.

In accordance with Action 4.3.2 of A Plan for Growing Sydney, the Environment Protection Authority and the Department of Planning and Environment, in participation with councils, will identify additional land for waste management, reuse and recycling and how and where precinct-based waste collection services could operate within Greater Sydney.

5.8.2 Energy and water

Making more efficient use of energy and water is a cost effective way to reduce carbon emissions, reduce pressure on waterways and ecosystems and reduce costs. The NSW Covernment has released A Draft Plan to Save NSW Energy and Money, as part of the NSW Climate Change Policy Framework. Steps to reduce greenhouse gas emissions will rely on action at the local and district scale, as well as national and international efforts. Monitoring the use of energy and water can help guide and support targeted measures to make the South West District more efficient and sustainable.

We will report annually on carbon emissions across Greater Sydney on the Greater Sydney Dashboard in accordance with the C40 (Carbon Disclosure Protocol) requirements. Access to data will help support the identification of targeted and cost-effective initiatives to help meet the NSW target of net zero carbon emissions by 2050.

We will also report on a range of environmental measures in line with Action IM3 above [see Section 1.2.4)

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Adopting a place-based approach and identifying Collaboration Areas enables us to plan for Improved environmental performance. This could also improve the ability to:

- renew and replace inefficient infrastructure (greening the infrastructure 'grey-grid')
- organise utilities, car parking, amenities, open space, urban green cover and public spaces
- apply and further develop successful approaches from other areas of Greater Sydney.



Action S12: Embed the NSW Climate Change Policy Framework into local planning decisions

We will work with councils, the Office of Environment and Heritage and other State agencies to see how best to implement the NSW Climate Change Policy Framework across Greater Sydney. We will identify which actions in the Draft Climate Change Fund Strategic Plan could be delivered in partnership with State agencies and councils to improve energy efficiency, reduce emissions and improve environmental performance.

> Action S13: Support the development of initiatives for a sustainable low carbon future

When identifying areas that are likely to undergo significant change, relevant planning authorities should identify areas that have the potential to become low carbon - high environmental efficiency areas. Our goal is to enable progressive reduction in carbon emissions potable water use and waste and to upgrade the District's ageing infrastructure, with a focus in the first instance, on NSW Government-led urban renewal areas, priority precincts and Priority Growth Areas.



Action S14: Support the development of environmental performance targets and benchmarks

Improving the energy and water efficiency of buildings, and reducing waste in urban renewal projects and infrastructure projects has a wide range of benefits, including reduced greenhouse gas emissions, reduced costs associated with energy use, and greater appeal to building owners and tenants.

Adopting innovative transport technologies, such as electric vehicles, can also help make the South West District more sustainable and efficient. Electric vehicles also have other benefits, such as lower levels of noise and air pollution that can be particularly valuable in densely-settled urban areas.

The Commission, in partnership with the NSW Climate Council, the Australian Government, State agencies and utility providers, will investigate ways to define environmental performance targets and benchmarks for areas and projects, and implementation measures to help reach these targets. This will include consideration of the potential growth in use of electric vehicles and options for standardised approaches to charging locations for electric vehicles.

We will also consider ways to move towards greater sharing of open source data to support better environmental performance.

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5.9 Planning for a resilient South West District

The South West District's rivers, floodplains and bushland contribute to its character and lifestyle. With the District undergoing such substantial growth, this interface between urban activities and the natural landscape can bring risks including flooding and bushfires. Impacts from natural hazards have the potential to increase as the climate changes, requiring adaptive responses.

The NSW Government has a number of policies and programs that aim to make NSW more resilient to natural hazards and a changing climate. As well as the NSW Climate Change Policy Framework and the *Draft Climate Change Fund Strategic Plan*, AdaptNSW, the NSW and ACT Regional Climate Change Model and a number of other climate change adaptation programs are in place.

Urban resilience is "the capacity of individuals, communities, institutions, businesses and systems within a city to survive, adapt and thrive no matter what kinds of chronic stresses and acute shock they experience".

100 Resilient Cities project

Greater Sydney's resilience challenge and 100 Resilient Cities

Around the world, leading cities are examining the challenge of urban resilience and exploring ways to become more resilient. 100 Resilient Cities is an international project developed by the Rockefeller Foundation, dedicated to helping cities around the world become more resilient to the physical, social and economic challenges that are a growing part of the 21st Century.

Cities in the 100 Resilient Cities network are provided with resources, including financial and logistical guidance, expert support, and access to a global network of cities, to develop a roadmap to resilience. Work is underway to develop a resilience strategy for Greater Sydney.

Greater Sydney's participation in the 100 Resilient Cities network is being led by the City of Sydney. We support the Resilient Sydney office – hosted by the City of Sydney – to develop a resilience strategy for Greater Sydney.

The most significant natural hazards and acute shocks that affect the South West District include bushfire, heatwaves and flooding (the next section takes a specific focus on flooding in the Hawkesbury-Nepean Valley). These natural phenomena will be potentially exacerbated by climate change.

Planning law in NSW requires new development on bushfire-prone land to comply with the provisions of the NSW Rural Fire Service's Planning for Bush Fire Protection 2006 as consistent with s. 79BA of the Environmental Planning and Assessment Act 1979.

AdaptNSW is a NSW Government-led approach to understanding climate change and to managing risk and taking actions to adapt to extreme weather. Projections to 2030 across Greater Sydney are:

- Rain: Average annual rainfall is expected to increase by +1.7% in the Sydney Basin. Rainfall is
 projected to increase during autumn (+9.7%). Rainfall is projected to reduce in spring (-2.6%)
 and marginally in summer (-0.2%). Parts of the South West South West District are at risk
 of flooding and increases in the amount and intensity of rainfall could make this worse.
- Bushfire: The Forest Fire Danger Index (FFDI) quantifies bushfire weather conditions, combining observations of temperature, humidity and wind speed. Fire weather is classified as severe when the FFDI is above 50. Severe fire weather is projected to have a slight increase in summer months to 2030. Decreases are projected during autumn and across the Sydney Basin in spring. A reduction during autumn is likely due to increases in rainfall.
- Heat: Hot days, measured by the number of days a year with a maximum temperature over 35°C, are projected to increase by an average of four days per year by 2030. The South West District already experiences more hot days than other parts of Creater Sydney and exposure to extreme heat will be an ongoing challenge for the District.
- Cold: Changes in cold nights, measured by minimum temperature (less than 2°C) can have considerable impacts on native ecosystems and agricultural crops.

Placing development in hazardous areas or increasing housing density in areas with limited evacuation options increases risk to people and property from bushfire. Designing neighbourhoods to minimise the perimeter of land that interfaces with the hazardous areas can also reduce risks.

Although clearing vegetation arounddevelopments on bushfire-prone land can help reduce risks from bushfire, clearing must be balanced against the protection of bushland and its ecological processes and systems.

The Rural Fire Service will continue to require that new development comply with the requirements set out in *Planning for Bush Fire Protection 2006*.

Managing flooding is an important priority for communities across Greater Sydney. All local government areas in the South West District are exposed to some flood threat, whether from major rivers or local overland flow.

In NSW, councils have responsibility for managing flood risk, including the development of flood studies and floodplain risk management studies. The NSW Government provides councils with technical, financial and policy assistance in floodplain risk management. The NSW Government has also prepared the *Floodplain Development Manual* 2005 to guide local planning for development on flood liable land. Compared to many cities around the world, Greater Sydney enjoys excellent air quality, which enhances our reputation as a sustainable and liveable city. However, the combined effect of air circulation patterns in the Sydney Basin, local topography, and proximity to sources of different sources of air pollution such as woodfire smoke, can lead to localised air quality issues, particularly in parts of the West and South West Districts. We will examine options to improve air quality as part of the review of A *Plan for Growing Sydney* in 2017.

Transport movements along major road and rail corridors generate noise and are a source of air pollution. The degree of noise or air pollution can be related to the volume of traffic and the level of truck and bus movements. There are controls in place in the *State Environmental Planning Policy (Infrastructure) 2007* to assist in reducing the health impacts of rail and road noise and adverse air quality on sensitive adjacent development.

Reducing particle pollution is a priority for the NSW Covernment and the community as exposure can be particularly harmful. The national standard for particle pollution has been exceeded in Creater Sydney for up to 11 days per year in the last decade and the fine particle standard has been exceeded for up to 14 days per year. These events are often associated with extreme events such as bushfires and dust storms.

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We support public transport, walking and cycling, and electric vehicles as opportunities to reduce air pollution, and will collaborate with the Office of Environment and Heritage and other agencies and utilities to report annually on air quality across Creater Sydney through the Greater Sydney Dashboard.



Sustainability Priority 10: Mitigate the urban heat island effect

Relevant planning authorities should consider where the urban heat island effect is experienced, and the location of vulnerable communities and use strategic plans to reduce impacts from extreme heat.

How these matters have been taken into account is to be demonstrated in any relevant planning proposal.



Sustainability Priority TI: Integrate land use and transport planning to consider emergency evacuation needs

Relevant planning authorities should coordinate with Transport for NSW and the State Emergency Service to consider land use and local road planning, so that it is integrated with emergency evacuation planning and takes into account the cumulative impact of growth on road evacuation capacity.

How these matters have been taken into account is to be demonstrated in any relevant planning proposal.



Sustainability Priority 12: Use buffers to manage the impacts of rural activities on noise, odour and air quality.

When preparing strategic plans, relevant planning authorities will:

- work with the Environment Protection Authority, Department of Primary Industries and councils to identify approaches (that may include buffers) for agriculture and primary industry activities to manage land use conflict
- use strategic plans to prevent or limit development in areas that would be in conflict with agriculture and primary industry
- protect agriculture and primary industry activities from encroachment by residential and other sensitive development.

How these matters have been taken into account is to be demonstrated in any relevant planning proposal.



Sustainability Priority 13: Assist local communities develop a coordinated understanding of natural hazards and responses that reduce risk

The Commission, the NSW Government and local councils will continue to adopt a range of tools, resources and implement actions to adapt to climate change and reduce risks to public and private assets. The Commission will also explore ways to coordinate, improve and communicate information about risks associated with climate change to local communities.



Action S15: Incorporate the mitigation of urban heat island effect into planning for urban renewal projects and Priority Growth Areas

Air temperatures in the District and other parts of Greater Sydney are expected to increase due to climate change and increasing urbanisation. The highly urbanised environment in parts of the South West District can increase localised heat even more. The Office of Environment and Heritage has mapped areas where extreme heat is experienced and where it is likely to increase with climate change. These maps are available at www.climatechange.environment. nsw.gov.au.

The Department of Planning and Environment will consider ways to reduce the impact of the urban heat island effect in its planning for priority urban renewal precincts and corridors, and in the new Development Code for Priority Growth Areas across Greater Sydney.



Action S16: Review the guidelines for air quality and noise measures for development near rail corridors and busy roads

The Department of Planning and Environment will work with other State agencies to review State Environmental Planning Policy (Infrastructure) 2007 and update the Development Near Rail Corridors and Busy Roads - Interim Guideline (Department of Planning 2008) to include contemporary air quality and noise information. This will include analysis of likely rail corridor and road vehicle movement patterns in 2036 to provide an understanding of where air quality and noise issues might need to be managed into the future.

The Environment Protection Authority, in collaboration with the Department of Planning and Environment and stakeholders, will develop principles for reducing emissions and exposure to air pollution. These will be able to be used by relevant planning authorities and will be considered when preparing strategic plans and making development decisions across Greater Sydney.



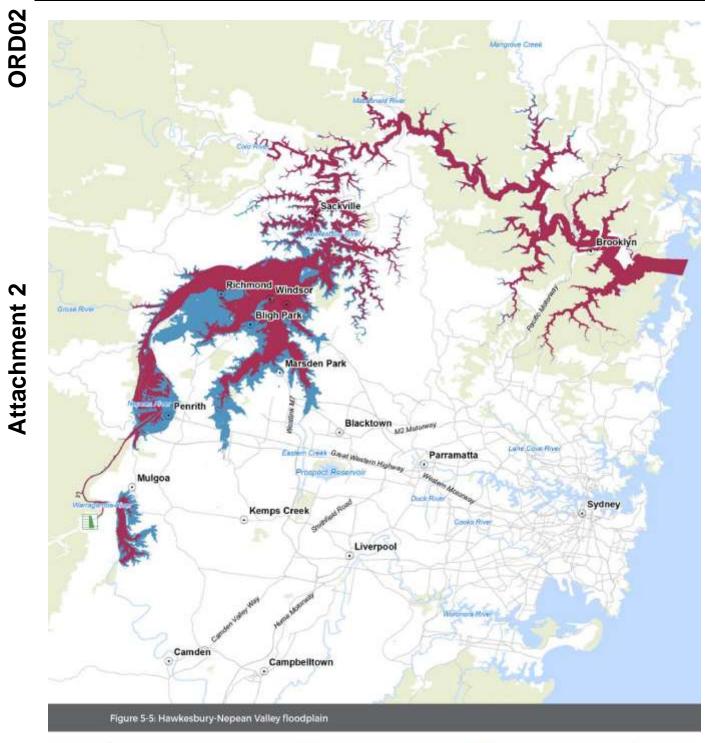
Action S17: Identify and map potential high impact areas for noise and air pollution

Across the South West District, the Environment Protection Authority and councils already provide a framework for the operation of potentially hazardous activities and manage any impacts on air quality and noise.

The Environment Protection Authority will work with the Department of Planning and Environment and councils to identify and map buffers around industries that have been granted a licence to pollute. Buffers will vary based on the level of risk and impacts on the surrounding community.

1 in 100 Year Flood

Probable Maximum Flood (PMF)



SOUTH WEST DISTRICT

 (\bullet)

Town

Roads

Creeks and Rivers

Warragamba Dam

National Parks

Water Body

1

5.10 Managing flood hazards in the Hawkesbury-Nepean Valley

The NSW Covernment has identified Hawkesbury-Nepean Valley as having the greatest single flood exposure in NSW, posing a significant danger to life and property in Western Sydney.

Unlike most other river catchments in Australia, the Hawkesbury-Nepean Valley floodplain has significantly higher depths during flood events created by several narrow gorges in the Valley that constrict the flow of floodwaters downstream. Limited flood warning time is a risk factor, and there is a complex interaction between the main flow of the river and the multiple rivers and creeks that contribute to the catchment. This creates challenges for urban development and emergency management planning in the catchment.

Already, up to 134,000 people live and work on the floodplain and could require evacuation during a flood; this population will double over the next 30 years. Over 25,000 homes and two million square metres of commercial space are subject to flood risk from the Hawkesbury-Nepean River between Bents Basin and Brooklyn Bridge. This risk will continue to increase as development intensifies in response to existing land use planning controls.

In 2016, the NSW Government released a Hawkesbury-Nepean Valley Floodplain Management Strategy. As part this strategy, the NSW Government commenced detailed concept designs, environmental assessments and business case planning for the raising of Warragamba Dam wall for flood mitigation. If approved, this will significantly reduce the frequency of flooding for existing downstream settlements, including Windsor, Richmond and parts of Penrith but would not eliminate all flood risk in the Valley.

The Hawkesbury-Nepean Flood Risk Management Task Force

The NSW Government has established the Hawkesbury-Nepean Flood Risk Management Task Force to lead Stage Two of the review into flood management and preparedness in the Hawkesbury-Nepean Valley.

This follows Stage One - the Hawkesbury-Nepean Valley Flood Management Review (March 2014) - completed by the Department of Primary Industries, which looked at the current flood management and planning in the Hawkesbury-Nepean Valley to identify opportunities to improve the ways in which floods are managed.

In June 2016, the NSW Government announced the Hawkesbury-Nepean Flood Risk Management Strategy, which was developed by the Task Force, to reduce the potential flood risk to life and property in the Hawkesbury-Nepean Valley.

The Task Force continues to work closely with NSW Government agencies and other stakeholders to lead policy thinking and provide expert advice to State and local governments and to communities on ways to reduce flood risks in the Hawkesbury-Nepean Valley.

The key land use planning responses to flood risk will be refined once the NSW Covernment considers the final business case for the dam raising and additional associated flood risk management investigations across the floodplain. Directions on changes to planning controls will be considered to preserve the risk to life benefits of the dam raising. limit pressure on flood evacuation routes and reduce flood evacuation complexity.

Irrespective of the dam raising, a more strategic land use approach to regional flood risk is required to manage the existing and ongoing flood risk. Urban growth in the Valley must be carefully managed in terms of absolute numbers and in the distribution of homes and commercial development. DISTRICT

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The application of appropriate flood related development controls and restrictions on new development are likely to continue to apply in key areas of risk across the floodplain. In addition, better integration of land use and road planning must account for the cumulative impact of growth on available flood evacuation road capacity and the complexity of flood emergency operations.

Key planning principles currently under investigation for future implementation as part of a formal statutory mechanism (such as a state environmental planning policy) include:

- avoiding Intensification and new urban development on land below the current 1 in 100 chance per year flood event (1% annual exceedance probability (AEP) flood event)
- Investigating the benefit of applying flood related development controls at levels higher than the current 1 in 100 chance per year flood level, in recognition of the higher flood depths above this current planning level and the potential impact on evacuation planning and property
- providing for less intensive development or avoiding certain urban uses in areas of higher flood risk, and allowing more intensive development in areas of lower flood risk, subject to an assessment of the cumulative impact of urban growth on regional evacuation road capacity and operational complexity of emergency management
- balancing desired development outcomes in centres with appropriate flood risk management outcomes
- avoiding alterations to flood storage capacity of the floodplain and flood behavlour through filling and excavation ('cut and fill') or other earthworks
- providing for the application of more flood compatible building techniques and subdivision designs.



Action S18: Address flood risk issues in the Hawkesbury-Nepean Valley

The Commission and other State agencies will continue to work together to reduce flood risks in the District in line with outcomes of the Hawkesbury-Nepean Valley Flood Risk Management Strategy.

In the interim, prior to the implementation of a statutory mechanism for the Hawkesbury-Nepean Valley, relevant planning authorities will need to demonstrate that the above principles have been addressed when making strategic plans to ensure that the cumulative growth in the Hawkesbury-Nepean Valley does not increase the risk to life.

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Attachment 2

Glossary

Term	Draft District Plan definition
Central City	The metropolis of three cities includes the developing Central City, which is anchored by Greater Parramatta and the Olympic Peninsula (GPOP) in West Central District and the strategic centres of Blacktown (also associated with Western City). Norwes: Macquarie Park (also associated with Eastern City) and Rhodes.
Collaboration Area	A Collaboration Area is a designated place where a significant productivity, liveability or sustainability outcome can be better achieved through the collaboration of different levels of government and in some cases the private sector or landowners. It is also a place where the Commission will seek to lead or be a major player in facilitating the collaboration.
	District centres play a significant district role due to the presence of one or more of the following characteristics:
	 the scale of retail activity, generally over 50,000m2 of floor space
District centres	 the presence of health and education facilities that serve the district and the local community
	 the level of transport services
	District centres also generally have between 5,000 to 10,000 jobs
Eastern City	The metropolis of three cities includes the established Eastern City, which spans the North, Central and South Districts and the strategic centres of Northern Beaches Hospital, Macquarie Park (also associated with Central City), Chatswood, St Leonards, North Sydney, Sydney City, Randwick Health and Education, Creen Square-Mascot, Sydney Airport, Port Botany and Kogarah.
Employment Lands Development Program	The Employment Lands Development Program provides information on planning for employment lands and business parks across metropolitan Sydney and is administered by the Department of Planning and Environment. The Program produce an annual report on the supply of and demand for employment lands.
Greater Parramatta	Greater Parramatta includes Parramatta City, and the precincts or Westmead, Parramatta North, Rydalmere and Camelila.
Greater Parramatta and the Olympic Peninsula (GPOP)	Greater Parramatta and the Olympic Peninsula (GPOP) is the first Collaboration Area of the Commission. GPOP spans 13 kilometres east-west from Strathfield to Westmead and seven kilometres north-south from Carlingford to Lidcombe and Granville and includes the strategic centres of Greater Parramatta and Sydney Olympic Park. The Parramatta River flows east through the heart of GPOP and the planned Parramatta Light Rail forms the GPOP spine.
Greater Sydney	Greater Sydney is defined as the 33 local government areas of Bayside, Blacktown, Blue Mountains, Burwood, Camden, Campbelltown, Canada Bay, Canterbury-Bankstown, Cumberland Fairfield, Georges River, Hawkesbury, Hornsby, Hunters Hill, Inner West, Ku-ring-gai, Lane Cove, Liverpool, Mosman, Northern Beaches, North Sydney, Parramatta, Penrith, Randwick, Ryde, Strathfield, Sutherland, The City of Sydney, The Hills, Waverley, Willoughby, Wollondilly and Woollahra.

Term	Draft District Plan definition		
Greater Sydney Dashboard	The Creater Sydney Dashboard will be an interactive web-based tool that will provide access to indicators for cross-District issues such as jobs and housing targets to assist decision-making. It will be used to gain insights from our collaborations and build on evidence already commissioned by various State agencies and councils. The Dashboard will also include a data store to assist decision-making and strategic planning.		
Global Sydney	Global Sydney is the combination of the Western, Central and Eastern Cities.		
Gross Domestic Product	Gross Domestic Product (CDP) is a measure of the size of a country's economy and productivity defined as the market value of all final goods and services produced in a country within a given period of time. (Source: Regional Development Australia, Sydney Metropolitan Region Economic Baseline Assessment Update, Final, July, 2013)		
Gross Value Added	Gross Value Added is the measure of the value of goods and services in a particular area.		
Health and education jobs	Health and education job categories are: Education: Health Care; and Social Assistance based on the Australian and New Zealand Standard Industrial Classification (ANZSIC) 2006 used by the Australian Bureau of Statistics.		
Health and education super precincts	Health and education super precincts are important locations for knowledge-intensive jobs, innovation and service delivery. They contain Greater Sydney's most important higher education and specialist health institutions and are assets that create significant opportunity to drive economic prosperity and social wellbeing.		
Housing market areas	Greater Sydney's 18 housing market areas are based on research by the City Futures Research Centre at the University of New South Wales that identified that approximately 82% of all household moves made in Greater Sydney are within 15 kilometres of their previous home.		
Industrial jobs	Industrial job categories are: Agriculture, Forestry and Fishing: Mining: Manufacturing: Electricity, Gas, Water and Waste Services: Wholesale Trade: and Transport, Postal and Warehousing based on the Australian and New Zealand Standard Industrial Classification (ANZSIC) 2006 used by the Australian Bureau of Statistics.		
Knowledge-intensive jobs	Knowledge-Intensive job categories are: Information, Media and Telecommunications: Financial and Insurance Services; Rental, Hiring and Real Estate Services, Professional, Scientific and Technical Services: and Public Administration and Safety based on the Australian and New Zealand Standard Industrial Classification (ANZSIC) 2006 used by the Australian Bureau of Statistics.		
Local centres	Local centres vary in size from a few shops on a corner to a vibrant main street. They are on a smaller scale than district centres and generally serve the local population.		
Local Environmental Plan	A Local Environmental Plan (LEP) is a statutory spatial plan which comprises planning controls that are typically the main mechanism for determining the type and amount of development that can occur on a parcel of land. In the Creater Sydney Region, LEPs can be made by the Minister for Planning or the Creater Sydney Commission.		

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Term	Draft District Plan definition
Metropolitan Rural Area	The Metropolitan Rural Area is the non-urban area within the Greater Sydney Region. It includes rural towns and villages, farmland, floodplains, national parks and areas of wilderness. Rural towns and villages are distinct from urban areas in that the provide mainly for local growth needs, as distinct from the needs of the broader Greater Sydney Region. The Metropolitan Rural Area creates a rural and bushland backdrop to Sydney and will be managed to balance local growth needs with environmental protection, resource management, agriculture, tourism and culture, research activity, military uses and community safety.
Parramatta City	Parramatta City covers the central business district of Parramatta
Planning controls	The combination of land use zones and development standards that control the use and built form of development. Developmen standards may limit height, density, set back from the road or property boundary and lot size for development or subdivision.
Priority Growth Areas	Areas of Greater Sydney identified by the NSW Government as major greenfield development areas. Information about Priority Growth Areas is available on the Department of Planning and Environment's website.
Priority Precincts	Priority Precincts are areas that the Minister for Planning considers have a wider social, economic or environmental significance for the community or have redevelopment potential on a scale that is important in implementing the State's planning objectives. Priority Precincts are envisaged as larger areas, usually made up of multiple land holdings, capable of delivering significant additional growth and requiring coordination from State and local government to realise their potential.
Population serving jobs	Population serving job categories are: Retail Trade; Accommodation and Food Services; Arts and Recreation Service; Construction; and Other Services based on the Australian and New Zealand Standard Industrial Classification (ANZSIC) 2006 used by the Australian Bureau of Statistics.
State Environmental Planning Policy	A State Environmental Planning Policy is a statutory plan, typical prepared by the Department of Planning and Environment and endorsed by the Minister for Planning. It can be a spatial plan for particular land in NSW, and/or it can set policy which applies to particular land or all land in NSW.
Strategic centres	 Strategic centres have one or more of the following characteristics: a higher proportion of knowledge-economy jobs, principally relating to the presence of major hospitals, tertiary education institutions, stand-alone office development or a combination of these the presence of existing or proposed major transport gateways a major role in supporting the increased economic activity of the Eastern, Central or Western Cities.
Sydney City	Strategic centres also tend to have over 20,000 jobs: Sydney City includes the contiguous areas of Sydney CBD, Barangaroo, Darling Harbour, Pyrmont, The Bays Precinct, Camperdown-Ultimo Health and Education, Central to Eveleigh, Surry Hills and Sydney East.

Term	Draft District Plan definition
Transport gateways	Transport gateways are locations with major ports or airports, and their surrounding precincts. They perform an essential and ongoing role to connect Sydney with locations across Australia and the world. Transport gateways are vital to Sydney's prosperity and often support large concentrations of complementary business activity and employment.
Urban Feasibility Model	The Urban Feasibility Model is a strategic planning tool developed by the Department of Planning and Environment which calculate the potential of an investigation area to deliver housing, based on planning and development controls and economic feasibility, framed by development costs and the local housing market.
Western City	The metropolis of three cities includes the emerging Western City focused on the proposed Western Sydney Airport. The Western City will encompass the West and South West Districts and include the strategic centres of Penrith, Liverpool, Campbelitown- Macarthur and Blacktown (also associated with Central City).

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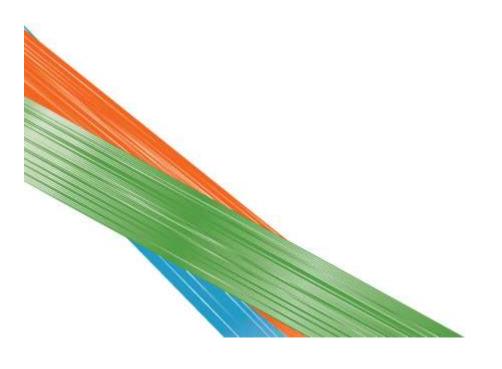
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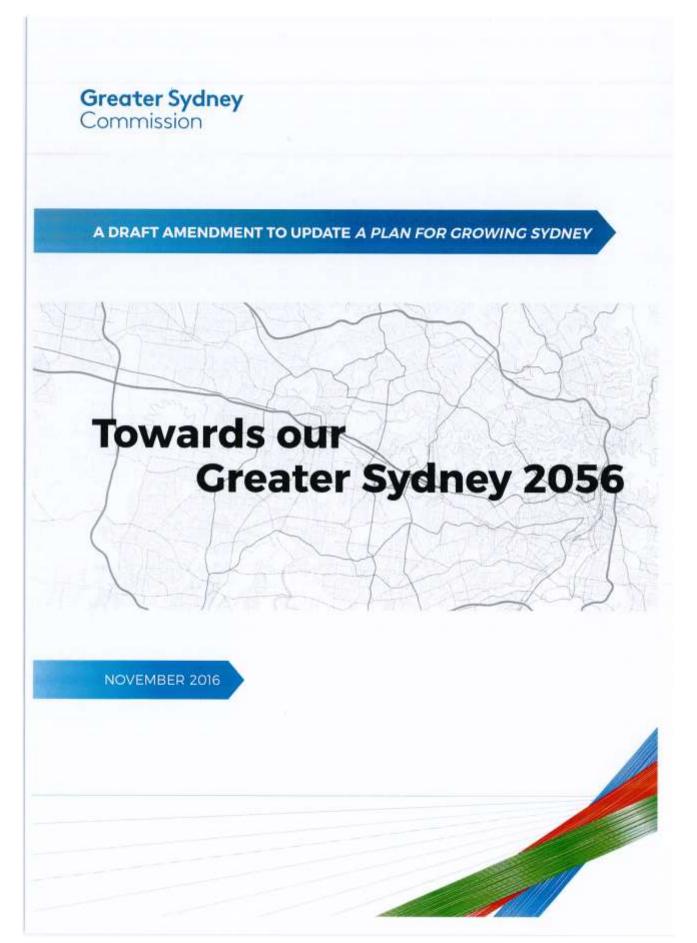
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Towards our Greater Sydney 2056 and its relationship to A Plan for Growing Sydney and District Plans

Two of the Commission's first tasks are to prepare draft District Plans for exhibition before the end of 2016 and review the initial regional plan - A Plan for Crowing Sydney before the end of 2017. So that all of these plans work together, we aim to finalise the District Plans and updated Regional Plan concurrently.

In preparing the draft District Plans consideration must be given to A Plan for Growing Sydney as well as a range of matters including priorities identified by the Minister for Planning and other relevant plans and infrastructure strategies. These include:

- Premier's and State Priorities (September 2015) which include creating jobs, encourage business investment and increasing housing supply
- Ministerial Statement of Priorities (January 2016) which includes requirements for strategic planning of Parramatta, Penrith, Liverpool and Campbelltown
- Updates to the State Infrastructure Plans
- Western Sydney City Deal (see page 6).

Combined, these matters have generated a major shift in strategic planning for Greater Sydney, and have created a longer term, transformational focus on the regional significance of central and western Sydney. As such, *Towards our Greater Sydney 2056*, with its strategy for a metropolis of three cities (see map page 6) is set to provide a framework that can better underpin strategic planning for a more productive, liveable and sustainable city.

The exhibition of the draft *Towards our* Greater Sydney 2056 foreshadows the comprehensive review of the regional plan in 2017 and is an essential companion to the exhibition of the draft District Plans.

How to be involved

This draft regional plan update sets out the evolution of the regional strategy for Creater Sydney since A Plan for Crowing Sydney was released in December 2014.

This draft regional plan update is on formal public exhibition until the end of March 2017. This allows as many people as possible to provide their feedback on the proposed strategy and priorities that could shape the way Greater Sydney grows and changes.

You can send feedback:

via the website: www.greater.sydney

by email: engagement@gsc.nsw.gov.au

by post: Greater Sydney Commission Draft Amendment to A Plan for Growing Sydney PO Box 257 Parramatta NSW 2124

Before making a submission, please read our privacy statement at www.gsc.nsw.gov.au/ privacy

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visit www.greater.sydney

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email engagement@gsc.nsw.gov.au

TOWARDS OLD CREATER SYDNEY 2004 (P.DRAFT ANIMADMENT TO UPDATE A PLAN FOR CROWING SYDNEY) Nevember 2018 & State of New South Wake though the Creater Sydney Commission (SBN 978-0-995-025-1-6

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Towards our Greater Sydney 2056

Our 40-year vision to enable a more productive, liveable and sustainable Greater Sydney

This document outlines a draft amendment to A Plan for Growing Sydney which aligns with the vision established in the draft District Plans. It is the first step in the comprehensive work that will take place next year to review A Plan for Growing Sydney

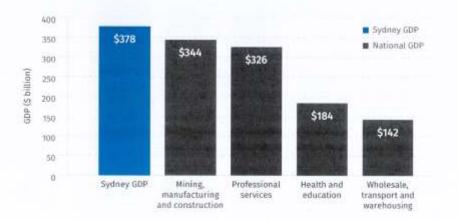
This amendment reconceptualises Creater Sydney as a metropolis of three cities, and is presented with the draft District Plans to reflect the most contemporary thinking about Greater Sydney's future. As a draft amendment for consideration, this allows the community and stakeholders to provide feedback to the draft District Plans while understanding the context of an emerging Greater Sydney, which will inform our review during 2017.

A changing, growing Greater Sydney

Think about Greater Sydney as you know it today. Not only has it completely transformed in its structure and role from when it first flourished in the 19th Century, it has already surpassed the ambitious city on the Harbour that spread its reach and created its new suburbs throughout the 20th Century.

Today, Creater Sydney is an economic powerhouse, generating nearly a quarter of Australia's Gross Domestic Product (GDP). Its economy – at \$378 billion per year – is bigger than the combined value of Australia's manufacturing, mining and construction industries (Figure 1). Its financial strengths make it a great place for business.

Figure 1: Greater Sydney GDP compared to national industries (2015)



Source: Australian Bureau of Statistics, Catalogue 5204 @ Australian System of National Accounts

Attachment

Greater Sydney Is home to nearly 4.7 million people, which includes 2.4 million workers. Its Eastern City, traditionally known as Sydney CBD, is the epicentre of Australia's financial sector and home to key national institutions such as the Reserve Bank of Australia and Australian Securities Exchange (ASX). Other worldrenowned institutions – such as the Sydney Opera House, Art Gallery of NSW, Museum of Contemporary Art and National Institute of Dramatic Art (NIDA) – highlight Greater Sydney's cultural and artistic credentials.

It also offers many local places that provide a diversity of lifestyle choices, from beachside to bushland settings, to busy main streets and ever-changing suburbs across its districts.

Greater Sydney's current structure – with economic activity and the transport network centred on Sydney City – has served it well, yet a singular focus on one city centre cannot continue as Greater Sydney grows, particularly when the city centre sits at the geographic edge, rather than at its geographic heart.

In a city-based economy like Australia's we need to get Greater Sydney's structure and spatial layout right.

Looking to comparable global cities, we know that few are orientated around a single large central business district like Greater Sydney. Instead, leading global cities develop alternatives in terms of where economic activity is located, how it is distributed and how different areas of economic activity are organised.

We associate these structures not only with improved productivity, but also with environmnetal and social benefits, as they allow for more connected and sustainable communities that provide greater opportunities without the need to travel long distances. Compare this with Greater Sydney. Already, the location of the majority of Greater Sydney's jobs in the east, combined with an increasing number of people living in the west, has created capacity constraints such as higher levels of congestion, lower rates of housing affordability and uneven access to employment choices.

Greater Sydney is that rare place: a city that is globally competitive while also sharing the lifestyle assets of smaller, highly liveable centres. Thanks to strong economic and population growth, a strong pipeline of planned investments and the need to respond to the fundamental challenges of Greater Sydney's geographic structure, now is the right moment to shape its positive transformation.

These moments are rare in Greater Sydney's history and the ability to grab them is even rarer. Think about the significance of the Sydney Harbour Bridge, the Sydney Opera House and the 2000 Sydney Olympic Games.

The building of the Harbour Bridge was more than just a connection between north and south: it signalled Greater Sydney's maturity and its confidence in the future. The Opera House was not just developed as a place to see a show – instead, it put Greater Sydney on the global stage, attracting visitors from across the world and establishing rich cultural offerings. The Olympic Games were more than a sporting event – they regenerated Greater Sydney's geographic heart and transformed thinking about an area that had been neglected.

The once-in-ageneration opportunity

We are at a transformational point. We have an opportunity to shift Greater Sydney's spatial structure in a way that benefits all existing and future citizens.

If there is a single change – one moment in time – that motivates this approach, it is the planned investment in the Western Sydney Airport. This is a game changer for Greater Sydney and will provide, in around 40 years, tens of thousands of jobs.

Given the magnitude of this change, together with the scale of growth expected in Western Sydney, we need to plan now for a sustainable supporting transport network. As the new economic activity around the Western Sydney Airport starts to emerge and as the success of the Sydney City in the east continues, the Greater Parramatta and the Olympic Peninsula (referred to as GPOP) will develop its role as Greater Sydney's second city region.

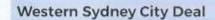
'Greater Sydney has the potential to develop its global economic brand from its current professional and corporate services Eastern City focus towards a broader story that also embraces education, innovation, technology, and advanced production industries. The development of the Central City and the emergence of the Western City, catalysed by Western Sydney Airport, gives Greater Sydney a real opportunity to be a diverse and differentiated global economic powerhouse.'

Greg Clark, urbanist and global advisor on cities and investment

Put simply, now is the time to conceive and plan for Creater Sydney maturing into a metropolis of three cities: a metropolis that will collectively create Global Sydney.

This means a shift away from thinking of Greater Sydney as a place anchored by an economically strong single central business district - a monocentric approach - and instead looking at the outstanding assets in three cities and the many local places and connections between these cities - a genuine polycentric approach, as shown in Figure 2.

Attachment 2

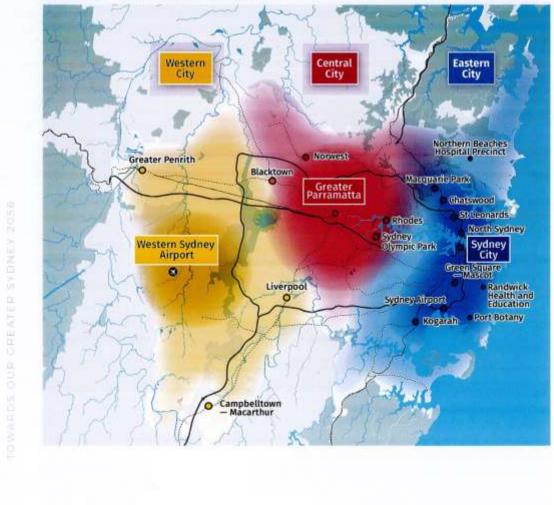


The Australian and NSW Governments have agreed to work with local government on the development of a Western Sydney City Deal, a generational deal to deliver almost 100,000 jobs, more housing and better transport for outer Western Sydney in what is the nation's largest ever planning and investment partnership. The Western Sydney City Deal is intended to drive a new economy in the emerging aerotropolis that incorporates the areas immediately around the Western Sydney Airport, and the broader region.

The Western Sydney City Deal pledges to

- target additional infrastructure investment to increase public transport and reduce traffic congestion, so people can spend more time with their families
- deliver more jobs closer to homes and services, with a focus on youth and Aboriginal training and skills development
- increase housing through better planning and density done well, and streamlining approvals across all three levels of government.
- support clean air, green spaces, vibrant arts and cultural initiatives.

Figure 2 A metropolis of three cities. Global Sydney



The metropolis of three cities acts as a central organising strategy in the planning for Greater or Sydney as an eight million-strong metropolis eight 2056. It will guide future decision-making 2 and the priorities of government and industry to move to a more productive, sustainable and vequitable city. The established Eastern City is the currently

established Sydney City and economic corridors to its north through to Macquarie Park and south through Sydney Airport and Port Botany to Kogarah.

It is an economic engine – especially in the financial, business and professional services and innovation start-up sectors – with a beautiful harbour, sought-after suburbs and a large proportion of knowledge-intensive jobs.

There are many opportunities to enhance the Eastern City, such as the renewal of government-owned land near Sydney City and tackling congestion. Our planning must support and enable the continued growth of the Eastern City's global industries and branding.

The established city contains significant heritage precincts such as The Rocks, Millers Point, Macquarie Street and the Royal Botanic Gardens and the Domain. The Harbour foreshores include significant evidence of Aboriginal occupation and interaction with the landscape.

Of the three cities, the developing Central City with CPOP at its heart is anticipated to experience the most significant urban transformation over the next 10 to 15 years. Aboriginal occupation of this area dates back 30,000 years. Historically, Parramatta is an early colonial settlement and significant heritage is a key aspect of its identity. Its central metropolitan location will be one of its greatest advantages. By 2036, it will be one of Greater Sydney's administrative and business centres, and the Westmead health and education precinct will continue to grow and lead best practice in medical and education-related industries. It will be an important area for advanced manufacturing and innovation-driven enterprises. It will offer more opportunities for 21st Century smart jobs, will build its own global brand and, with planned transport investments, will be an easier place to get to and move around in. It is critical that the Central City has strong transport connections and transport capacity to the established Eastern City and the emerging Western City.

By 2056, the Western Sydney Airport will be the focus of the emerging Western City. For the first time in over 100 years, this major catalyst will provide the opportunity to change the shape and structure of an extensive area of Greater Sydney.

The emerging Western City will also offer the strategic advantage of creating a greater diversity of jobs and greater social opportunities for the thousands of citizens in the centres of Penrith, Blacktown, Liverpool and Campbelltown-Macarthur.

The economic growth generated by the Western Sydney Airport will offer the opportunity to furnish the emerging Western City with affordable and diverse housing, transport and social infrastructure and jobs needed to create a place people will want to call home.

This new central organising strategy of Greater Sydney as a metropolis of three cities has led to a reconsideration of the approach to centres in A Plan for Growing Sydney. A new hierarchy of centres is proposed, which defines three types of centres: strategic, district and local.



These centres vary in terms of scale and contribution to Greater Sydney's job growth and productivity as well as service provision to local communities. In brief:

- strategic centres, including transport gateways, have the scale, industries and location needed to specifically support a city with smart jobs and the success of the Eastern, Central and Western Cities
- district centres have jobs, facilities and services that support district populations
- local centres have a range of local jobs and services for local catchments.

Our vision for Creater Sydney to 2056 represents the economic, social and environmental integration of a metropolis of three cities. It acknowledges that Greater Sydney is more likely to develop in a sustainable manner when it has a strong, productive economy underpinning a fair and liveable lifestyle and allowing a focus on Greater Sydney's natural environment, resilience and efficiency.

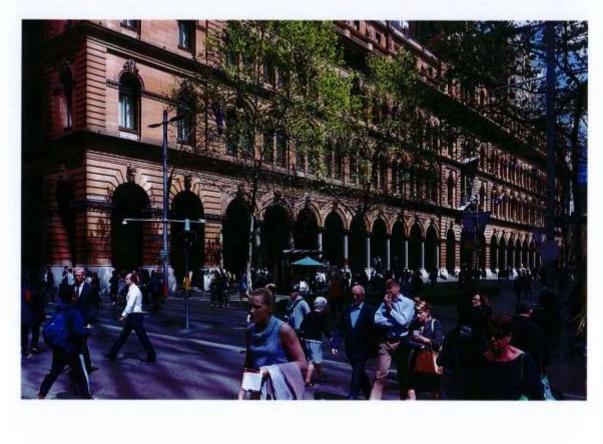
This vision can be delivered through a number of metropolitan priorities, summarised in the table below.

A Productive Sydney

A growing city A city with smart jobs A 30-minute city

A Sustainable Sydney

A city in its landscape An efficient city A resilient city



A Liveable Sydney

A collaborative city

diversity

An equitable, polycentric city

A city of housing choice and

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Attachment

A productive **Greater Sydney**

Greater Sydney enjoys an international reputation as a tourist destination and Australia's services and financial capital. Broadening its global economic footprint, particularly from Parramatta westwards, and leveraging the investment in the Western Sydney Airport will facilitate a diversity of jobs. connected to a '30-minute workforce' - which means more people living within 30 minutes of where they work. This requires better planning

of employment locations, better transport connections and the ability for people to walk or cycle to local jobs, shops and services. A metropolis of three complementary cities will

create economic diversification and improve Greater Sydney's international competitiveness. it will allow Greater Sydney to welcome and create new, knowledge-intensive jobs for the 21st Century.

Our approach to planning for a productive Greater Sydney focuses on three metropolitan priorities, described below.

Metropolitan priority: A growing city

Greater Sydney accommodates over 2.4 million workers. As its population grows, so too will the number of workers. New jobs need to be located in a way that meets the needs of businesses while also providing access and choice for workers.

By 2036, this metropolitan priority aims to:

- support the generation of over 817,000 additional jobs
- accommodate 1.74 million additional people and more than 725,000 new homes
- increase Greater Sydney's economic growth rate
- increase total economic activity by 75% to approximately \$655 billion.

Metropolitan priority: A city with smart jobs

As Greater Sydney's economy grows, we need to increase the knowledge and skills capacity of the workforce. This will improve the resilience of the economy and its ability to adapt to future shocks and changes, while providing opportunities for people to work in a wider range of areas

Leveraging existing strengths in knowledgeintensive sectors will help grow Greater Sydney's economy in a sustainable way.

A key focus for these 21st Century jobs will be centres with major health, education and commercial precincts, known as strategic centres.

This metropolitan priority aims to:

- increase knowledge-intensive jobs and health and education jobs
- increase productivity per worker
- focus on international students and inbound tourism
- deliver a smart city that enables knowledge-intensive jobs to thrive.

Metropolitan priority: A 30-minute city

Increasing the range of jobs and services and other opportunities that people can get to within 30 minutes will improve overall quality of life and give businesses better access to a broad and deep labour pool.

This metropolitan priority aims to:

- increase the proportion of people with good access to jobs and prioritise socially disadvantaged areas
- improve accessibility to jobs across all districts
- improve the ability to walk to local services and amenities.

Our vision for a productive Greater Sydney

2016 By 2036 By 2056 The Eastern City as a financial and The Central City as a health, The Western City as a trade, logistics, professional services. FinTech. education, administration, and advanced manufacturing, tourism, and health and education hub finance and business services hub health, education and science hub

Accelerating housing opportunities

Greater Sydney is experiencing a step change in its growth with natural increases (that is, an increase in the number of births) a major contributor. We need to recognise that the current and significant levels of growth, and the forecast higher rates of growth, are the new norm rather than a one-off peak or boom.

Since the release of A Plan for Growing Sydney the projections for growth have been revised upwards. The projections include multiple scenarios with the middle scenario of 725,000 additional dwellings over 2016-2036. This is an increase of 9% from A Plan for Growing Sydney owing to revised population projections. The projections for a high growth scenario require an additional 830,000 dwellings.

To accommodate new housing growth while also responding to housing affordability, there is a need to accelerate housing supply across Greater Sydney. While the planning system is not responsible for actually building new homes, we have a key role to play in creating opportunities for new housing in the right locations. We refer to this as 'capacity'

To do this, we need clear criteria about where additional capacity should be located. Our vision for accommodating homes for the next generation is intrinsically linked to planning for and integrating with new infrastructure and services. We identify the opportunities to do this in three ways.

1. Urban renewal

Urban renewal provides opportunities to focus new housing in existing and new centres with frequent public transport that can carry large numbers of passengers - meaning that more people can live in areas that provide access to jobs and services.

A Plan for Growing Sydney identifies possible urban renewal corridors. These opportunities need to be investigated further now to determine their ability to provide capacity for new housing in the medium (five to 20 years) and longer (20* years) term. The need for this additional capacity is greatest in the North and Central Districts. In addition to the general guidance in A Plan for Growing Sydney, we propose the following criteria for investigating urban renewal corridors.

- Alignment with investment in regional and district infrastructure. This acknowledges the catalytic impacts of infrastructure such as Sydney Metro Northwest and Sydney Metro City & Southwest, NorthConnex, WestConnex, Sydney CBD and South East Light Rail, Parramatta Light Rail, Northern Beaches Hospital and any future NSW Covernment investments. It also acknowledges the opportunities created by enhancements to existing infrastructure.
- Accessibility to jobs, noting almost half of Greater Sydney's jobs are in strategic and district centres.
- Accessibility to regional transport, noting that high-frequency transport services can create efficient connections to local transport services and expand the catchment area of people who can access regional transport within a decent travel time.
- The catchment area that is within walking distance of centres with regional transport.
- The feasibility of development, including financial viability across a range of housing configurations (one, two and three+ bedrooms) and consistency with market demand. Proximity to services including schools and health facilities.
- Consideration of heritage and cultural elements, visual impacts, natural elements such as flooding, special land uses and other environmental constraints.
- Consideration of local features such as topography, lot sizes, strata ownership and the transition between the different built forms.
- Delivery considerations such as staging, enabling infrastructure, upgrades or expansions of social infrastructure such as local schools, open space and community facilities.

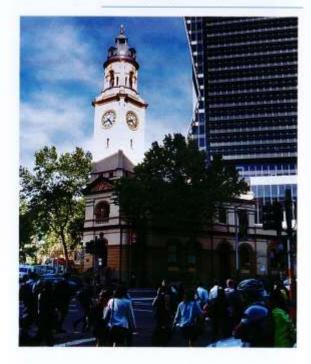


Attachments for the Ordinary Council Meeting held on 28 March 2017 - Page 319

A liveable Greater Sydney

The term 'liveability' is used in city planning to focus on the people who live in an area, the places they then spend time in, their health and quality of life as well as overall community wellbeing. We will integrate liveability considerations into every level of planning for Greater Sydney as part of a people-centred approach. This approach will draw from international frameworks, including the UN Sustainable Development Goals and as detailed in our Liveability Framework, available in our background material available on www.greater.sydney.

People have told us during community consultation that they want greater access to a broader range of housing choices that are affordable and suitable for all ages. They want easy access to health, education and recreation facilities, better transport links to ease congestion as well as improved walking and safe cycling links.



Our planning must also support the needs of young people, older people, people with disabilities and people from different backgrounds. The timely delivery of local infrastructure such as schools, health facilities and playgrounds is important and by identifying annual infrastructure priorities, we can help the delivery of both new and renewed district and local infrastructure.

Our approach to planning for a liveable Greater Sydney focuses on three metropolitan priorities, described below.

Metropolitan priority: An equitable, polycentric city

Across Greater Sydney, many centres generate a range of jobs and play a diversity of roles. A Greater Sydney of many centres means that people don't have to travel as far to get to the workplaces, education, services, shops and recreation areas they need. This makes a city more equitable and gives people access to more opportunities.

These centres should be the focus for transport improvements to deliver on the 30-minute city.

This metropolitan priority aims to:

- provide equitable access to jobs and education in centres to strengthen human capital
- deliver a more equitable city by planning for infrastructure as growth occurs
- provide equitable access to health, open space and community and cultural infrastructure
- respect and enhance heritage areas and assets
- understand the impact of demographic changes such as higher proportions of both school-aged children and the frail aged.

Attachment 2

Attachments for the Ordinary Council Meeting held on 28 March 2017 - Page 320

Metropolitan priority: A city of housing choice and diversity

The population of Greater Sydney is forecast to increase by 1.74 million people in the 20 years to 2036, and could be as high as eight million people by 2056. When this growth is combined with expected changes in household size and structure, we need to plan for more housing options in locations close to jobs and services and at a broad range of price points. Options can range from market rentals and ownership through to affordable housing and social housing.

This metropolitan priority aims to:

- support a range of housing choices at different price points to suit people through all stages of life
- provide affordable rental housing specifically for eligible households on very low and low incomes
- support the delivery of the NSW
 Government's social housing program
- increase housing supply that broadens choice and diversity
- locate more jobs close to where people live
- in existing areas, prioritise new housing in places where daily needs can be met within walking distance or by public transport.

Metropolitan priority: A collaborative city

Collaboration across State agencies, local government, service providers and the wider community delivers smart city planning. It is for this reason that collaboration and listening are built into everything the Commission will do.

The parts of Greater Sydney undergoing the most change and development require greater collaboration and coordination. In Parramatta, for example, the Greater Parramatta Technical Coordination Group is bringing all parties together to collectively improve the area.

A collaborative approach enables the sharing of city-making data and research, and addresses the challenge of dedicating new land for important resources such as open space, particularly in a city with high land values. A collaborative city uses public assets and resources in the best way possible.

This metropolitan priority aims to:

- achieve pathways for collaborative and shared use of social infrastructure, community resources and underutilised public assets such as schools, open spaces and residual governmentowned land to promote liveability, quality of life and resource efficiency
- ensure our collaborations enhance quality of life across the widest possible area
- lead the collaboration in the development of major city-shaping areas, such as the Western Sydney Airport and GPOP
- increase, through the Greater Sydney Dashboard, ways for the community to access data and knowledge to help them to co-create a Greater Sydney.

Our vision for a liveable Greater Sydney

2016	By 2036	By 2056
The Eastern City with vibrant established suburbs and transforming renewal areas with greater housing choice and lifestyle opportunities	The Central City with a diversity of housing opportunities, access to green spaces and cultural and entertainment facilities.	The Western City with well- designed new residential areas vibrant centres and local places

2

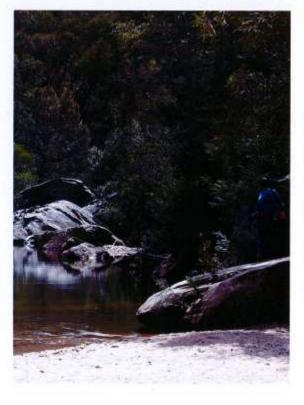
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A sustainable Greater Sydney

Greater Sydney has been a managed landscape for tens of thousands of years. Sustainable natural systems provide 'ecosystem services' to the city, by providing water, absorbing and converting waste, moderating the local climate and creating attractive places and recreational spaces.

The changing climate requires responses and adaptations that can tackle challenges while also benefitting people, places and prosperity. We need to build Greater Sydney's resilience and use its resources and energy more efficiently. This requires us to recognise and foster opportunities to improve environmental performance, economic development and social relations.

Our approach to planning for a sustainable Creater Sydney focuses on three metropolitan priorities, described below.



Metropolitan priority: A city in its landscape

It is important to recognise that natural environmental areas are productive and have an impact on communities, the economy and regional tourism. Viewing Greater Sydney as a city in its landscape allows us to think about how the diversity of social, cultural and environmental conditions operate within this natural landscape. We need a longerterm planning approach for non-urban areas to manage Greater Sydney's waterways, biodiversity and its connected green spaces and corridors, while also looking at how we can green our streets, neighbourhoods and suburbs with new tree canopies.

This metropolitan priority aims to:

- improve the health of waterways
- protect, extend and enhance biodiversity, regional and local open space systems, as well as scenic and cultural heritage together with productive landscapes
- increase access to open space, conserve the natural environment and enable healthy lifestyles and local food.

Metropolitan priority: An efficient city

A sustainable city monitors its impact on global systems and climate change.

A more efficient Greater Sydney will analyse the most cost effective and efficient ways to reduce environmental impacts, reduce reliance on carbon and influence the design and location of water, energy and waste systems.

Greater Sydney can leverage its position as a leader and innovator in environmental technology and management.

This metropolitan priority aims to:

 minimise and mitigate environmental impacts through the efficient use of energy and resources, recycling of water and materials together with the development of renewable energy sources.

Metropolitan priority: A resilient city

Future risks and mitigation measures need to be identified and managed so that Greater Sydney can continue to be viable and resilient in the face of shocks and stresses.

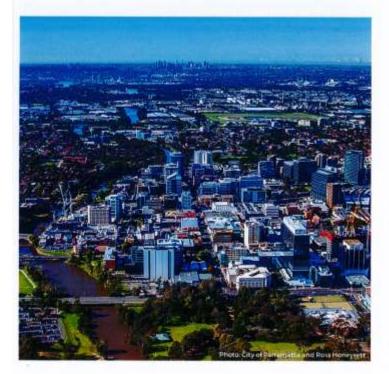
Planning at a local, district and metropolitan level will build on the NSW Government's support of the 100 Resilient Cities network.

This metropolitan priority aims to:

- . identify and adapt to the impacts of climate change that are likely to increase
- minimise exposure to manmade and natural hazards
- strengthen social, organisational and infrastructure capacity by addressing chronic stresses in order to be able to resist and rebuild after the acute shock of natural disasters.

Our vision for a sustainable Greater Sydney

2016	By 2036	By 2056	
The Eastern City as a celebrated and environmentally rich and resilient harbour city	The Central City as the river city with environmentally enriched waterways and a fully revealed and restored underlying natural landscape	The Western City as a protected and valued parkland city	



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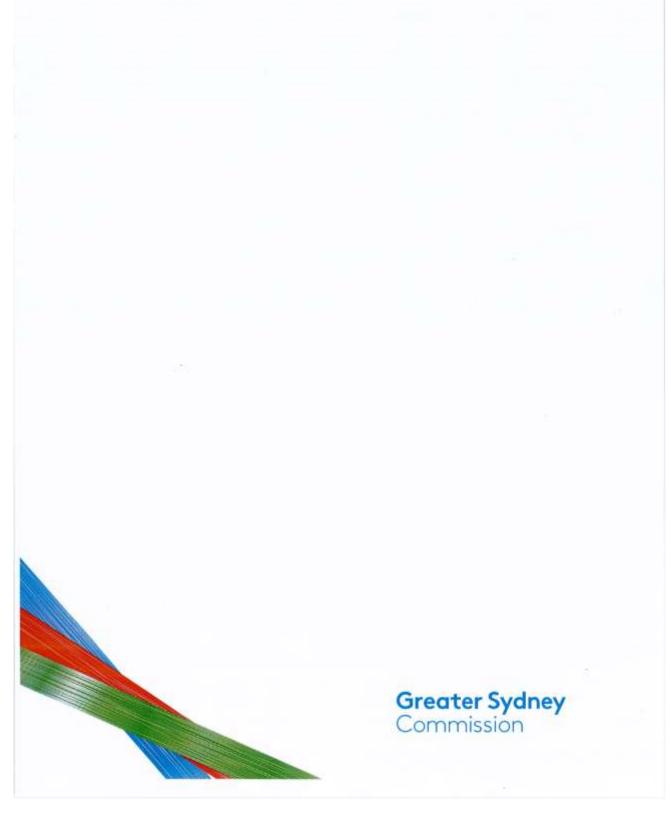
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Monthly Report

Camden Council

February 2017

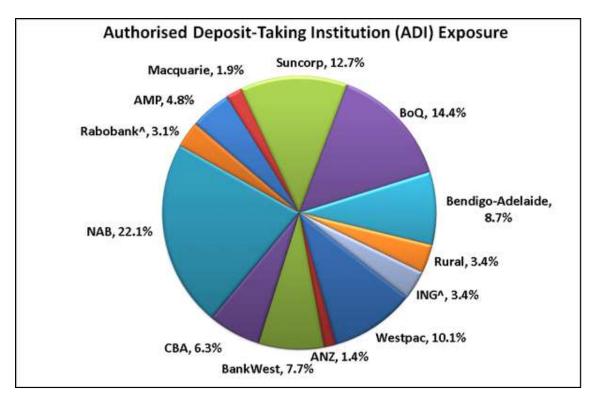
Investment Exposure

Council's investment portfolio is directed to the higher rated ADIs. Council will continue to diversify the investment portfolio across the higher rated ADIs (A1 or higher).

ADI	Exposure \$M	Rating	Policy Limit	Actual	Capacity
Westpac	\$10.50M	A1+	25.0%	10.1%	\$15.48M
ANZ	\$1.50M	A1+	25.0%	1.4%	\$24.48M
BankWest	\$8.00M	A1+	25.0%	7.7%	\$17.98M
СВА	\$6.50M	A1+	25.0%	6.3%	\$19.48M
NAB	\$23.00M	A1+	25.0%	22.1%	\$2.98M
Rabobank^	\$3.20M	A1	5.0%	3.1%	\$2.00M
AMP	\$5.00M	A1	15.0%	4.8%	\$10.59M
Macquarie	\$2.00M	A1	15.0%	1.9%	\$13.59M
Suncorp	\$13.20M	A1	15.0%	12.7%	\$0.00M
BoQ	\$15.00M	A1	15.0%	14.4%	\$0.59M
Bendigo-Adelaide	\$9.00M	A1	15.0%	8.7%	\$6.59M
Rural	\$3.50M	A1	15.0%	3.4%	\$12.09M
ING^	\$3.50M	A2	5.0%	3.4%	\$1.70M
Total	\$103.90M			100.0 %	

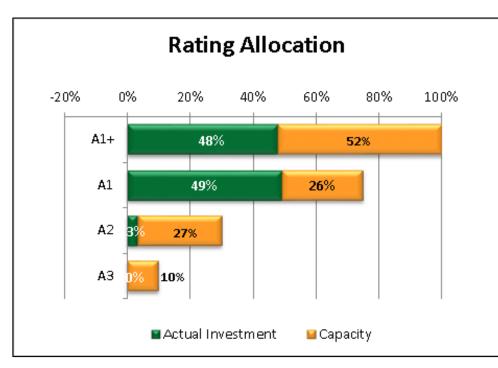
^Foreign subsidiary banks are limited to 5% of the total investment portfolio as per Council's investment policy.

The investment portfolio is predominately directed to the higher rated entities led by NAB, Suncorp and BoQ.



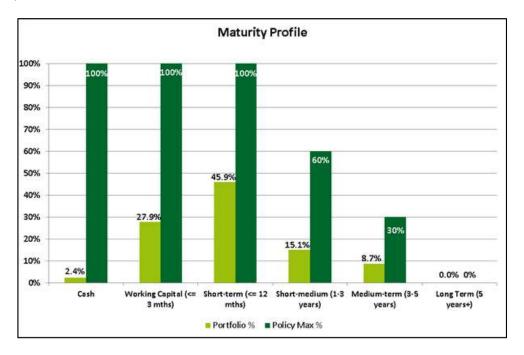
Credit Quality

A1+ (the domestic majors) and A1 (the higher rated regionals) rated ADIs are the largest share of Council's investments. There is still capacity to invest across the entire credit spectrum.



Term to Maturity

The portfolio remains adequately liquid with approximately 2.4% of investments at-call and another 28.0% of assets maturing within 3 months. There is high capacity to invest in terms greater than 1 year.



In the historic low interest rate environment, as existing deposits mature, they will generally *be reinvested at much lower rates than preceding years. A larger spread of maturities in medium-term assets would help income pressures over future financial years.

The RBA recently kept interest rates unchanged and there is increasing uncertainty around interest rates – a sustained commodity boom could bring forward rate increases. However, commodity price increases could place pressure on the RBA to decrease interest rates.

2016-17 Budget

Current Budget Rate	3.00%		
Source of Funds Invested	February		
Section 94 Developer Contributions	\$54,395,288		
Restricted Grant Income	\$1,070,702		
Externally Restricted Reserves \$2			
Internally Restricted Reserves \$22,631,5			
General Fund \$14,959,			
Total Funds Invested \$103,900,000			
Council's investment portfolio has increased by \$11.00 million since			

the January reporting period. The increase primarily relates to the third rates instalment for 2016/2017 financial year and Section 94 cash receipts received in February.

	INTEREST RECEIVED DURING 2016/17 FINANCIAL YEAR				
	February	Cumulative	Original Budget	*Revised Budget	Projected Interest
General Fund	\$132,467	\$789,863	\$1,400,000	\$1,400,000	\$1,250,000
Restricted	\$142,123	\$1,313,020	\$700,400	\$1,650,000	\$1,800,000
Total	\$274,590	\$2,102,883	\$2,100,400	\$3,050,000	\$3,050,000

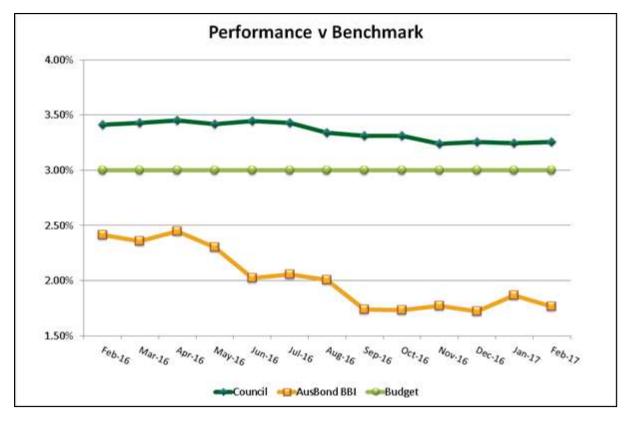
*The Revised Budget is reviewed on a quarterly basis as part of the Budget Process

Interest Summary

The portfolio's interest summary as at 28 February 2017 is as follows:

NUMBER OF INVESTMENTS	82
AVERAGE DAYS TO MATURITY	369
AVERAGE PERCENTAGE	3.22% p.a.
WEIGHTED PORTFOLIO RETURN	3.26% p.a.
CBA CALL ACCOUNT *	1.20% p.a.
HIGHEST RATE	5.10% p.a.
LOWEST RATE	2.55% p.a.
BUDGET RATE	3.00% p.a.
AVERAGE BBSW (30 Day)	1.62% p.a.
AVERAGE BBSW (90 Day)	1.78% p.a.
AVERAGE BBSW (180 Day)	2.03% p.a.
OFFICIAL CASH RATE	1.50% p.a.
AUSBOND BANK BILLINDEX	1.77% p.a.

*Note: CBA call account is not included in the investment performance calculations

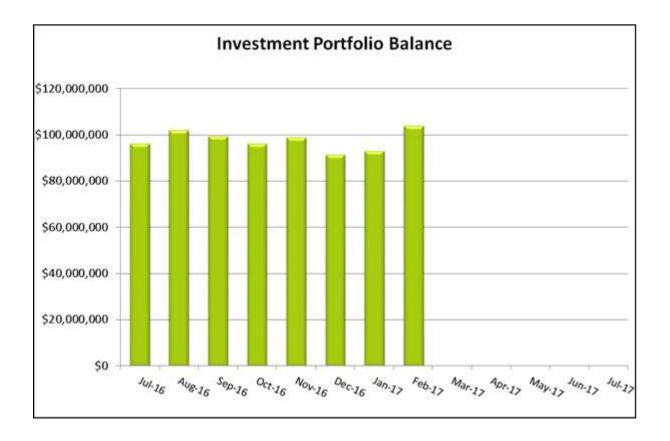


The portfolio's outperformance over the benchmark (AusBond Bank Bill Index) continues to be attributed to the longer-dated deposits in the portfolio. Deposits invested close to or above 4% will contribute strongly to outperformance over coming financial years. As existing deposits mature, performance will generally fall as deposits will be reinvested at much lower prevailing rates compared to previous years. Future budgets may be adjusted to reflect a longer period of low interest rates.

Appendix A – List of Investments

Camden Council Investment Portfolio as at 28 February 2016											
Institution	Туре	Amount	Interest Rate	Date Invested	Maturity Date	Original Term of Investment (days)	Days to Maturity	interest Accrues as at 28/02/2013			
BOQ	TD	\$2,500,000.00	5.00%	4/11/2013	1/11/2018	1823	611	\$40,068.49			
300	TD	\$1,000,000.00	5.10%	25/11/2013	22/11/2018	1823	632	\$13,413.70			
NG Bank	TD	\$1,000,000.00	4.63%	28/11/2013	23/11/2017	1456	268	\$12,431.23			
300	TD	\$1,000,000.00	4.85%	28/11/2013	23/11/2017	1456	268	\$13,021.92			
30Q	TD	\$1,000,000.00	4.65%	27/02/2014	22/02/2018	1456	359	\$254.79			
Rabobank	TD	\$1,000,000.00	5.00%	28/02/2014	28/02/2019	1826	730	\$136.99			
Rabobank	TD	\$1,200,000.00	5.00%	3/03/2014	6/03/2019	1029	736	\$59,671.23			
Westpac	TD	\$1,500,000.00	4.55%	15/05/2014	15/05/2019	1826	806	\$54,226.03			
Westpac	TD	\$1,500,000.00	4.55%	21/05/2014	22/05/2019	1827	813	\$53,104.11			
Bendigo Adelaide Bank	TD	\$1,500,000.00	4.05%	22/05/2014	24/05/2017	1098	85	\$47,102.05			
Sendigo Adelaide Bank	TD	51,000,000.00	4.05%	27/05/2014	31/05/2017	1100	92	\$30,846.58			
Bendigo Adelaide Bank	TD	\$2,000,000.00	4.05%	30/05/2014	31/05/2017	1097	92	\$60,805.48			
BAN	TD	\$2,000,000.00	4.00%	5/06/2014	7/05/2017	1098	99	\$58,958.90			
Macquarie Bank	TD	\$1,000,000.00	4.00%	1/08/2014	31/07/2017	1095	153	\$23,232.88			
30Q Rabobank	TD TD	\$1,000,000.00	4.15%	5/08/2014	1/08/2018	1457 1826	519	\$24,104.11			
the second se	TD	\$1,000,000.00	and the second division of the second divisio	27/11/2014	27/11/2019			\$10,558.90			
Sendigo Adelaide Bank	TD	\$1,500,000.00 \$1,500,000.00	4.25%	28/11/2014 16/12/2014	4/12/2019 11/12/2019	1832	1009	\$16,243.15			
	TD			and the second sec		1821		\$12,328.77 \$7,594.52			
Macquarie Bank Rural Bank	TD	\$1,000,000.00	3.85%	19/12/2014 9/01/2015	19/17/2019 9/01/2018	1826	1024 315	\$10,339.73			
Rural Bank	TD	\$1,500,000.00	3.70%	14/01/2015	15/01/2018	1096	315	\$6,994.52			
Westpac	TD	51,000,000.00	3.70%	2/02/2015	2/02/2020		1069	\$2,884.93			
NAB	TD	\$1,000,000.00	3.50%	27/02/2015	1/03/2017	1826	1065	\$172.60			
Bendigo Adelaide Bank	TD	\$1,000,000.00	3.00%	14/10/2015	1/05/2017	735	232	\$11,342.47			
Sendigo Adelaide Bank	TD	\$2,000,000.00	3.00%	20/11/2015	22/11/2017	733	267	\$16,438.36			
BOQ.	TD	\$1,000,000.00	3.05%	25/11/2015	29/11/2017	735	201	\$8,021.92			
ANZ	TD	\$1,500,000.00	2.60%	10/08/2016	6/03/2017	208	5	\$21,690.41			
BAV	TD	\$1,500,000.00	2.73%	17/08/2016	8/03/2017	203	8	\$21,989.59			
NG Bank	TD	\$1,000,000.00	2.65%	19/08/2016	13/03/2017	206	13	\$14,084.93			
30Q	TD	\$1,000,000.00	2.80%	19/08/2016	15/03/2017	208	15	\$14,882.19			
Suncorp Metway	TD	\$2,000,000.00	2.60%	24/08/2016	20/03/2017	208	20	\$26,926.03			
Suncorp Metway	TD	\$1,000,000.00	2.60%	24/08/2016	27/03/2017	215	27	\$13,463.01			
AMP	TD	\$1,000,000.00	2.95%	31/08/2016	29/03/2017	210	29	\$14,709.59			
300	TD	\$1,000,000.00	2.72%	31/08/2016	3/04/2017	215	34	\$13,562.74			
Suncorp Metway	TD	\$1,000,000.00	2.65%	31/08/2016	5/04/2017	217	36	\$13,213.70			
NAB	TD	\$1,000,000.00	2.60%	31/08/2016	10/04/2017	222	41	\$12,964.38			
CBA	TD	\$1,000,000.00	2.57%	2/09/2016	12/04/2017	222	43	\$12,673.97			
6AV	TD	\$2,500,000.00	2.60%	7/09/2016	18/04/2017	223	49	\$31,164.38			
Suncorp Metway	TD	\$1,000,000.00	2.62%	14/09/2016	24/84/2017	222	55	\$12,059.18			
BAY	TD	\$1,000,000.00	2.70%	14/09/2016	28/08/2017	348	181	\$12,427.40			
BAN	TD	\$1,000,000.00	2.65%	21/09/2016	26/04/2017	217	57	\$11,689.04			
Suncorp Metway	TD	\$1,500,000.00	2.57%	28/09/2016	1/05/2017	215	62	\$16,264,93			
NAB	TD	\$1,000,000.00	2.75%	5/10/2016	2/08/2017	301	155	\$11,075.34			
NAB	TD	\$500,000.00	2.75%	5/10/2016	31/07/2017	299	150	\$5,537.67			
NAB	TD	\$1,000,000.00	2.80%	19/10/2016	4/10/2017	350	218	\$10,202.74			
AAB	TD	\$1,500,000.00	2.75%	26/10/2016	25/09/2017	334	209	\$14,239.73			
Suncorp Metway	TD	\$1,500,000.00	2.70%	2/11/2016	3/05/2017	182	64	\$13,204.11			
30Q	TD	\$1,000,000.00	2.75%	2/11/2016	B/05/2017	187	69	\$8,965.75			
BAN	TD	\$1,500,000.00	2.80%	2/11/2016	30/10/2017	362	244	\$13,693.15			
Bankwest	TD	\$1,000,000.00	2.60%	9/11/2016	10/05/2017	182	71	\$7,978.88			
WP	TD	51,000,000.00	2.70%	15/11/2016	19/06/2017	216	111	\$7,841.10			
AMP	TD	\$2,000,000.00	2.70%	16/11/2016	21/06/2017	217	113	\$15,534.25			
AAB	TD	\$1,000,000.00	2.72%	17/11/2016	14/06/2017	209	105	\$7,750.14			
300	TD	\$1,000,000.00	2.60%	24/11/2016	15/05/2017	172	76	\$7,441.10			
Suncorp Metway	TD	\$1,000,000.00	2.81%	28/11/2016	22/05/2017	175	83	\$7,159.73			
4A8	TD	\$1,000,000.00	2.70%	30/11/2016	17/05/2017	168	78	\$6,731.51			
4A8	TD	\$1,000,000.00	2.70%	1/12/2016	19/06/2017	200	111	\$6,657,53			
iuncorp Metway	TD	\$1,000,000.00	2.80%	7/12/2016	3/07/2017	200	125	\$6,443.84			
AMP	TD	\$1,000,000.00	2.75%	7/12/2016	5/07/2017	210	127	\$6,328.77			
CB/A	TD	\$2,000,000.00	2.75%	3/01/2017	3/01/2018	365	309	\$8,589.04			
CBA.	TD	\$1,000,000.00	2.64%	3/01/2017	3/05/2017	120	54	\$4,122.74			
Bankwest	TD	\$1,000,000.00	2.55%	4/01/2017	5/06/2017	152	97	\$3,912.33			

	1	amden Cound						
Institution	Type	Amount	Interest Rate	Date Invested	Maturity Date	Original Term of Investment (days)	Days to Maturity	Interest Accrued as at 28/02/2017
BOQ	TD	\$1,000,000.00	2.75%	4/01/2017	9/10/2017	278	223	\$4,219.18
Suncorp Metway	TD	\$1,200,000.00	2.65%	10/01/2017	10/07/2017	179	132	\$3,659.18
Bankwest	TD	\$1,000,000.00	2.62%	18/01/2017	26/06/2017	159	118	\$3,014.79
ING Bank	TD	\$1,500,000.00	2.80%	25/01/2017	17/07/2017	173	139	\$4,027.40
Westpac	TD	\$1,000,000.00	3.60%	1/02/2017	1/02/2022	1926	1799	\$2,761.64
Westpac	TD	\$1,500,000.00	3.57%	2/02/2017	2/02/2022	1826	1800	\$3,961.23
Westpac	TD	\$1,000,000.00	3.56%	10/02/2017	10/02/2022	1826	1808	\$1,853.15
80Q	TD	\$1,500,000.00	3.60%	15/02/2017	15/02/2021	1461	1448	\$2,071.23
Westpac	TD	\$2,000,000.00	3.64%	22/02/2017	22/02/2022	1826	1820	\$1,396.16
Suncorp Metway	TD	\$2,000,000.00	2.62%	20/02/2017	21/08/2017	182	174	\$1,292.05
NAB	TD	\$1,000,000.00	2.56%	22/02/2017	14/06/2017	112	106	\$490.96
NAB	TD	\$1,000,000.00	2.56%	22/02/2017	21/06/2017	119	133	\$490.96
NAB	TD	\$1,000,000.00	2.56%	22/02/2017	28/06/2017	126	120	\$490.96
Bankwest	TD	\$1,000,000.00	2.60%	23/02/2017	12/07/2017	139	134	\$427.40
BOQ	TD	\$1,000,000.00	3.75%	27/02/2017	28/02/2022	1827	1826	\$205.48
Bankwest	TD	\$1,000,000.00	2.60%	27/02/2017	19/07/2017	142	141	\$142.47
Bankwest	TD	\$1,000,000.00	2,60%	27/02/2017	24/07/2017	147	146	\$142.47
Bankwest	TD	\$1,000,000.00	2.60%	27/02/2017	26/07/2017	149	148	\$142.47
Westpac	TD	\$1,000,000.00	3.55%	28/02/2017	28/02/2022	1926	1826	\$97.26
Bankwest	TD	\$1,000,000.00	2.60%	28/02/2017	8/08/2017	161	161	\$71.23
# TD Investments	82	\$101,400,000.00	3.26%					\$1,062,430.15
CBA.	Call Account	\$2,500,000.00	1.20%	10				
		\$103,900,000.00	11 17	22	10			1



Appendix B – Ratings Definitions

Standard & Poor's Ratings Description

Standard & Poor's (S&P) is a professional organisation that provides analytical services. An S&P rating is an opinion of the general credit worthiness of an obligor with respect to particular debt security or other financial obligation – based on relevant risk factors.

Credit ratings are based, in varying degrees, on the following considerations:

- Likelihood of payment
- Nature and provisions of the obligation
- Protection afforded by, and relative position of, the obligation in the event of bankruptcy, reorganisation or other laws affecting creditors' rights
- > The issue rating definitions are expressed in terms of default risk.

S&P Short-Term Obligation Ratings are:

- A-1: This is the highest short-term category used by S&P. The obligor's capacity to meet its financial commitment on the obligation is strong. Within this category, certain obligations are designated with a plus sign (+). This indicates that the obligor's capacity to meet its financial commitment on these obligations is extremely strong.
- A-2: A short-term obligation rated A-2 is somewhat more susceptible to the adverse changes in circumstances and economic conditions than obligations in higher rating categories. However the obligor's capacity to meet its financial commitment on the obligation is satisfactory.
- A-3: A short-term obligation rated A-3 exhibits adequate protection parameters. However, adverse economic conditions or changing circumstances are more likely to lead to a weakened capacity of the obligor to meet its financial commitment on the obligation.

S&P Long-Term Obligations Ratings are:

- AAA: An obligation/obligor rated AAA has the highest rating assigned by S&P. The obligor's capacity to meet its financial commitment on the obligation is extremely strong.
- AA: An obligation/obligor rated AA differs from the highest rated obligations only in small degree. The obligor's capacity to meet its financial commitment on the obligations is very strong.
- A: An obligation/obligor rated A is somewhat more susceptible to the adverse effects of changes in circumstances and economic conditions than obligations/obligors in higher rated categories. However the obligor's capacity to meet its financial commitment on the obligation is strong.
- BBB: A short-term obligation rated BBB exhibits adequate protection parameters. However, adverse economic conditions or changing circumstances are more likely to lead to a weakened capacity of the obligor to meet its financial commitment on the obligation.
- Unrated: Financial Institutions do not necessarily require a credit rating from the various ratings agencies such as Standard & Poor's and these institutions are classed as "Unrated". Most Credit Unions and Building societies fall into this category. These institutions nonetheless must adhere to the capital maintenance requirements of the Australian Prudential Regulatory Authority (APRA) in line with all authorised Deposit Taking Institutions (Banks, Building societies and Credit Unions).
- Plus (+) or Minus(-): The ratings from "AA" to "BBB" may be modified by the addition of a plus or minus sign to show relative standing within the major rating categories

Fitch and Moody's have similar classifications.