



Infrastructure Delivery, Management and Staging Plan

DCI CBR01 Data Centre

2 Wolseley Place, Jerrabomberra NSW 2619

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CONTENTS

	Page No.
1.0 EXECUTIVE SUMMARY.....	2
2.0 INTRODUCTION	3
3.0 PROJECT DESCRIPTION	5
4.0 SITE DESCRIPTION	7
5.0 INCOMING SERVICES	11
5.1 ELECTRICITY	11
5.2 COMMUNICATION SERVICES	13
5.3 POTABLE WATER	14
5.4 FIRE WATER INFRASTRUCTURE	16
5.5 SEWERAGE	16
5.6 GAS	17
5.7 STORMWATER.....	18
5.8 OVERLAND FLOW	18
6.0 CONSTRUCTION.....	19
APPENDIX A – QUEANBEYAN-PALERANG REGIONAL COUNCIL STATEMENT OF AVAILABLE WATER PRESSURE.....	20
APPENDIX B – HYDRAULICS SERVICES SITE PLAN.....	21

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1.0 EXECUTIVE SUMMARY

This Infrastructure Delivery, Management and Staging Plan has been prepared by HDR to accompany a State Significant Development Application (SSDA) for the construction new data centre facility at 2 Wolseley Place, Jerrabomberra NSW in the Queanbeyan-Palerang Regional Council Area. The current real property description of the site is Lot 6 in DP 1288362, following the site's subdivision by Poplars as part of the estate works.

This report has been prepared to address the Secretary's Environmental Assessment Requirements (SEARs) issued for the Project DCI CBR01 Data Centre (SSD-64287712) dated 6 November 2023.

This report outlines the incoming services required, with respect to capacity, availability and connections to facilitate the development.

The proposed data centre development works specific to infrastructure include:

- Reticulation of new Essential Energy HV feeders (11kV) to site.
- Extension of existing pit and pipe system to facilitate incoming communication services pathway via diverse underground routes.
- Connection into existing potable water supply from Queanbeyan-Palerang Regional Council for hydraulic and wet fire services.
- Connection into existing sewerage system from Queanbeyan-Palerang Regional Council.
- Modifications of the site stormwater drainage network to direct stormwater runoff to existing water quality devices and on-site detention tank/s.

This report concludes that the proposed data centre development is suitable and warrants approval.

2.0 INTRODUCTION

A State Significant Development Application (SSDA) has been prepared in support of proposed Data Centre development at 2 Wolseley Place, Jerrabomberra. The site is zoned B7 Business Park under the Queanbeyan Local Environmental Plan (West Jerrabomberra) 2013. The current real property description of the site is Lot 6 in DP1288362, following the site's subdivision by Poplars as part of the estate works.

The key features of the Proposal are summarised as follows:

- Site preparation works including demolition, tree and vegetation clearing and bulk earthworks
- Staged construction, fit out and operation of single storey, 20MW Data Centre building with a maximum building height of 7.5m and total gross floor area of 5,817m² comprising:
 - 60 at-grade parking spaces incl. 2 DDA spaces
 - Loading dock spaces
 - Five (5) data halls
 - Ancillary office spaces and amenities
- Provision of required utilities including:
 - Two (2) 270kL above-ground combined fire sprinkler & hydrant tanks
 - Two (2) 11kV switch-rooms on site
- Vehicle and pedestrian access provided via Wolseley Place.
- Associated landscaping and site servicing
- Installation of site services and drainage infrastructure
- A floor space ratio of approximately 0.14:1.

This report has been prepared to address the Secretary's Environmental Assessment Requirements (SEARs) and accompanying cover letter issued for Project DCI CBR01 Data Centre (SSD-64287712) dated 6th November 2023.

Specifically, this report has been prepared to respond to the SEARs requirement issued below:

Table 1

SEARs Item	Secretary's Environmental Assessment Requirements	Section Reference (This Report)
Infrastructure Requirements and Utilities	In consultation with relevant service providers: • Assess the impacts of the development on existing utility infrastructure and service provider assets surrounding the site.	Section 5.0, Figures 6-15, Appendix A

	- Identify any infrastructure upgrades required on-site and off-site to facilitate the development and any arrangements to ensure that the upgrades will be implemented on time and be maintained. - Provide an infrastructure delivery and staging plan, including a description of how infrastructure requirements would be co-ordinated, funded and delivered to facilitate the development.	Section 5.1, 4.2 Figures 6-15 Section 5.1, 5.2, 5.7, Appendix A
Water Management Plan	Provide an Integrated Water Management Plan that: - Is prepared in consultation with the local council and any other relevant drainage or water authority. - Outlines the water-related servicing infrastructure required by the development (informed by the anticipated annual and ultimate increase in servicing demand) and evaluates opportunities to reduce water demand (such as recycled water provision). - Details the proposed drainage design (stormwater and wastewater) for the site including any onsite detention facilitation, water quality management measure and nominated discharge points, on-site sewerage management and measure to treat, reuse or dispose of water. - Demonstrates compliance with the local council or other drainage or water authority requirements and avoids adverse downstream impacts.	Section 5.3, 5.4, 5.5 Further details are covered in the Water Management Plan issued by BG&E.
Flooding Risk	Identify any flood risk on-site having regard to adopted flood studies, the potential effects of climate change, and any relevant provisions of the NSW Floodplain Development Manual. Assess the impacts of the development, including any changes to flood risk on-site or off-site, and detail design solutions and operational procedures to mitigate flood risk where required.	Section 5.6 Further details are covered in the Flood Statement issued by BG&E.

3.0 PROJECT DESCRIPTION

The key components of the Project are listed in the following table.

Table 2

Descriptor	Project Details
Project Area	The site has a total area of 4.05 hectares. The entire site will be disturbed by the Project.
Use and Activities	Data Centre with ancillary office building.
Project Summary	Site preparation works including demolition, tree and vegetation clearing and bulk earthworks Construction, fit out and operation of single storey, 20MW Data Centre building comprising: • 60 at-grade parking spaces • Loading dock spaces • Five (5) data halls • Ancillary office spaces and amenities
Gross Floor Area (GFA)	Total site area = 40,532m² Building Areas (m²) - Data Storage - Office - Plant and Equipment - Gross Floor Area
	Landscaping area – 16,507m ²
Maximum Height	Maximum building height 7.5m
Floor Space Ratio	0.14:1
Car Parking	60 car spaces including 2 DDA spaces and 5% of the spaces to be fitted with EV provisions.
Bicycle Parking	12 spaces
Utilities	New dual redundant (N-1) feeders at 11kV. Two (2) 11kV switch-rooms on site. Two (2) 270kL above-ground combined fire sprinkler & hydrant tanks. Town Main Water connection - 22L/S @580 m pressure 50kL rainwater tank to support landscape irrigation and toilet flushing.
Power Consumption	Approximately 35MVA

Operations & Management	The facility would be constructed and operated by DCI. The site would be operated on a 24-hour, 7 day a week basis.
Existing Services and Infrastructure	Existing services and infrastructures will be extended, adapted and augmented to meet the demands of the Project.
Staging/Phasing	There will be 3 construction stages: Stage 1: 2no. Data halls with 8MW IT capacity, admin bldg., primary and secondary site entrances incl. external plant, carpark and loading dock facility Stage 2: 1no. Data Hall with 4MW IT capacity incl. external plant Stage 3: 2no. Data halls with 8MW IT capacity and admin bldg. incl. external carpark

4.0 SITE DESCRIPTION

The proposed DCI Canberra Data Centre is located at 2 Wolseley Place, Jerrabomberra NSW 2619. The current real property description of the site is Lot 6 in DP1288362, following the site's subdivision by Poplars as part of the estate works (**Figure 1**).

The site has a total area of approximately 4.05 hectares. The existing ground surface dips gently NW at approximately 1°.

The Poplars Innovation Precinct is a new business park which forms part of the broader development of the South Jerrabomberra locality in the Queanbeyan-Palerang LGA. The precinct is being developed by the estate owner, Poplars Developments Pty Ltd (Poplars).

The Precinct is located approximately 5 kilometres south-west of Queanbeyan and 10 kilometres south-east of Canberra near the NSW/ACT border (**Figure 2, Figure 3**). It is conveniently located close to major transport and infrastructure links, including the Monaro Highway located about 2 kilometres to the west (via Lanyon Drive), and high voltage transmission lines located on the ACT/NSW border.

The Precinct has been earmarked for employment and related urban purposes for some time, with the Innovation Precinct rezoned from rural to business purposes by Queanbeyan-Palerang Regional Council (Council) in 2013, in accordance with a Structure Plan for the wider South Jerrabomberra area.

The Poplars Retail and Service Precinct (Stage 1), located to the north of Tomsitt Drive, has been under development since 2017. This has involved development of key precinct infrastructure (including a new intersection with Tomsitt Drive), as well as the development of a number of retail and service businesses.

The Poplars Innovation Precinct covers some 35 hectares to the south of Tomsitt Drive, and is proposed to be developed for a range of business and employment purposes, with a focus on technology sectors including:

- Space and Defence Sectors;
- Information and Communication Technologies; and
- Scientific Research Services.

The proposed DCI Data Centre site forms part of Stage 1 of the Innovation Precinct (also known as Poplars Innovation Precinct – West).

In July 2021, Council approved a development application (DA 2020.1427) from Poplars for the estate works required for the Innovation Precinct Stage 1, including:

- Estate subdivision;
- Vegetation clearing across the estate;
- Bulk earthworks across a portion of the estate; and
- Infrastructure development, including construction of an estate road from Environa Drive.

The approved subdivision plan is shown on **Figure 4**. Estate works and infrastructure development are currently underway.

The estate approvals and development mean that some of the environmental issues associated with the proposed development of the DCI Data Centre – such as biodiversity and cultural heritage have already been addressed as part of the wider estate development.

The site is currently vacant, with estate works currently underway to enable the site to be used for business/employment purposes. Prior to the commencement of estate development for the Poplars Innovation Precinct, the site had been used for broad acre agricultural (grazing) purposes.

The nearest sensitive receivers are the residents of Jerrabomberra to the east of the site, the closest of which are approximately 380 metres from the site. Additional residential areas are located approximately 500 metres to the south-east and 750 metres to the south.

The site is well serviced by transport and is within close proximity to Tumpsitt Drive, Lanyon Drive and Monaro Highway. The site is approximately 5.5km southwest of the Queanbeyan train station which is on the Queanbeyan and Canberra rail line. This provides access to Canberra CBD.



Figure 1 – Site Aerial, Source: pjep Scoping Report_Oct23, 2023

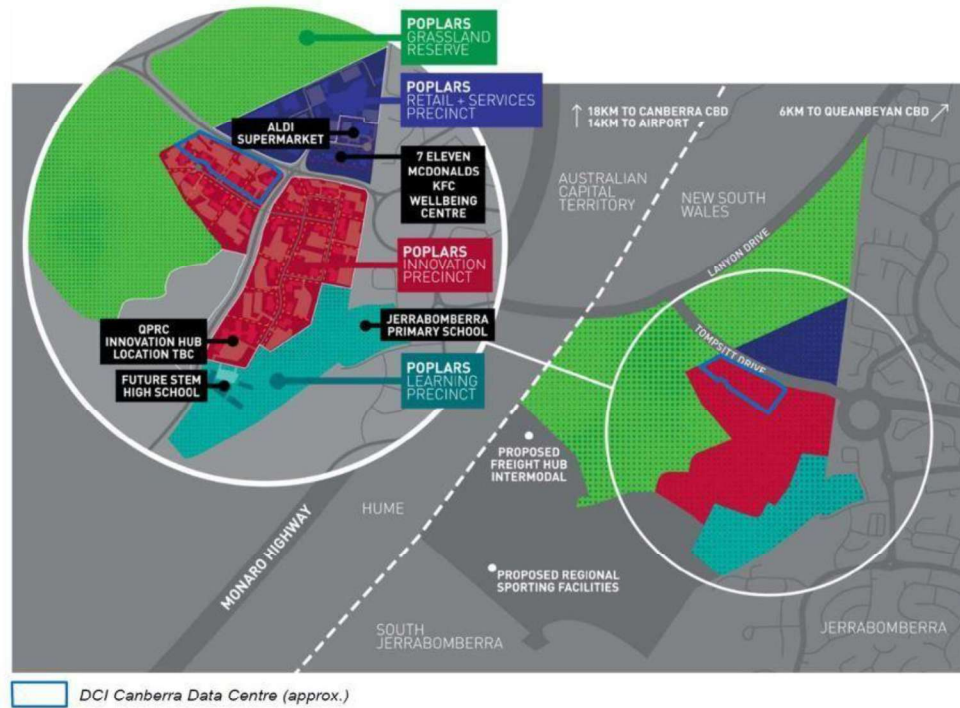


Figure 2 - Poplars Precinct Master Plan, Source: *pjep Scoping Report_Oct23*, 2023



Figure 3 – Poplars Innovation Precinct Stage 1 Master Plan, Source: *pjep Scoping Report_Oct23*, 2023



Figure 4 – Approved Estate Subdivision Plan, Source: pjep Scoping Report_Oct23, 2023

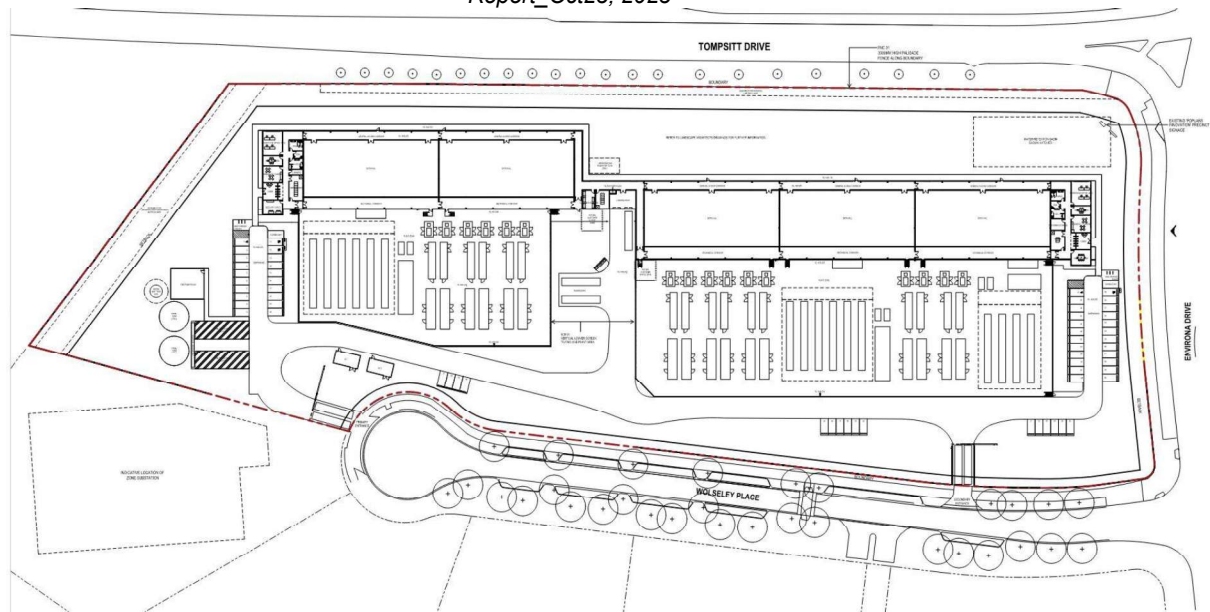


Figure 5 - Site Plan, Source: HDR, 2024

5.0 INCOMING SERVICES

The incoming services outlined within this report include:

- Electricity
- Communication Services
- Potable Water
- Sewerage
- Gas
- Storm Water
- Overland Flow

5.1 ELECTRICITY

Based on information from Before You Dig Australia (BYDA) and Essential Energy, shown in **Figure 6**, there is a ground substation in the vicinity of the Proposed Site, located at the intersection of Wolseley Place and Envirova Drive. The plans also indicate the presence of numerous Essential Energy assets along Wolseley Place, notably low-voltage underground cables reticulate along the Wolseley Place boundary. Additionally, there are high-voltage underground cables, poles, and pits located along the Envirova Drive and Tomsitt Drive site boundaries.

Essential Energy plans indicate that there are 'Areas of Proposed Works' marked on the site south west of the Proposed Site and along Wolseley Place where new works and assets may have been issued for construction, but details are not yet fully displayed on the BYDA plans. Notably, the lot south west of the Proposed Site is the new Essential Energy South Jerrabomberra 132kV/11kV zone substation, which is currently under construction. There are high-voltage sub-transmission lines running along the western boundary of the site to supply this zone substation.

Essential Energy has confirmed the allocation of two new dual redundant (N-1) 11kV feeders from the new zone substation for this development. Essential Energy will advise on the final supply capacity and route options from the zone substation to the proposed site. The supply routes to the site from the Essential Energy zone substation will be subject to further enquiry, with designs developed in later design stages.

The electrical infrastructure for the Proposed Development includes new dual redundant (N-1) feeders at 11kV to accommodate a final supply capacity of approximately 35MVA. The feeders serving the site are suitably sized to support the Proposed Development.

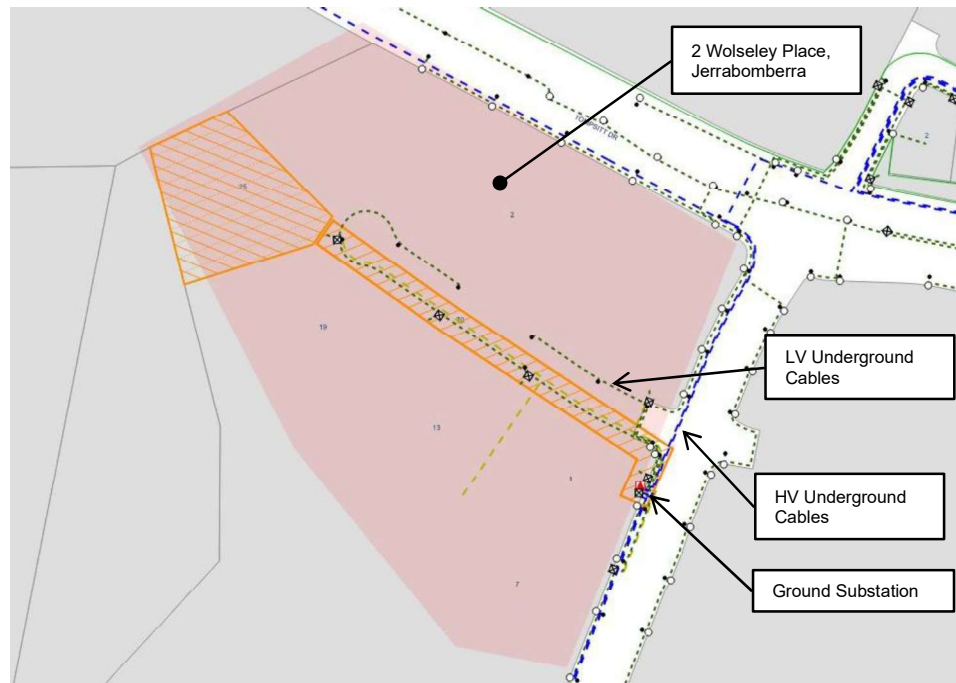


Figure 6 – Essential Energy Assets around 2 Wolseley Place, Jerrabomberra NSW 2619 (Source: BYDA)



Figure 7 – Essential Energy South Jerrabomberra Zone Substation Location (Source: Nearmap)

5.2 COMMUNICATION SERVICES

Initial site location assessment via BYDA plans indicates the presence of multiple Telco/ISP/Fibre service providers in the area, including NBN, Telstra, and Optus. Refer to **Figure 8**, **Figure 9** and **Figure 10** for further information.

The preferred arrangement for fibre connection points to the site will be via 4 preferably diverse paths with multiple carriers. The diversely routed telecommunication service pathways within the building to the Telco/MDF rooms should maintain a minimum of 20m separation along the entire route.

Telco/ISP/Fibre service providers will likely provide connectivity to the fibre entry points to the site from public roads surrounding the site. It is anticipated that DCI will negotiate with their service providers of choice to finalise routes to the site.

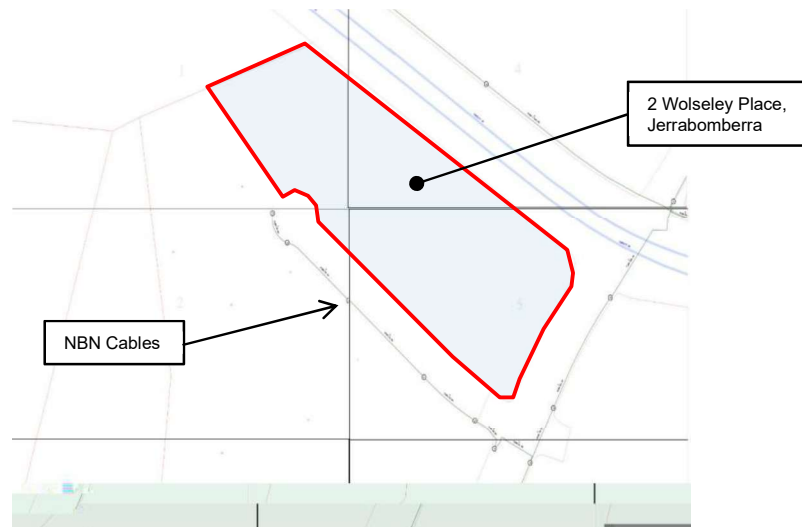


Figure 8 – NBN Telecommunication Assets around 2 Wolseley Place, Jerrabomberra (Source: BYDA)

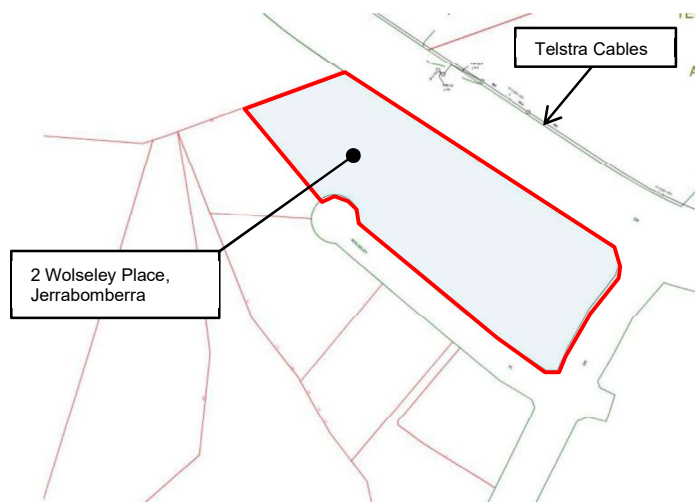


Figure 9 – Telstra Telecommunication Assets around 2 Wolseley Place, Jerrabomberra (Source: BYDA)

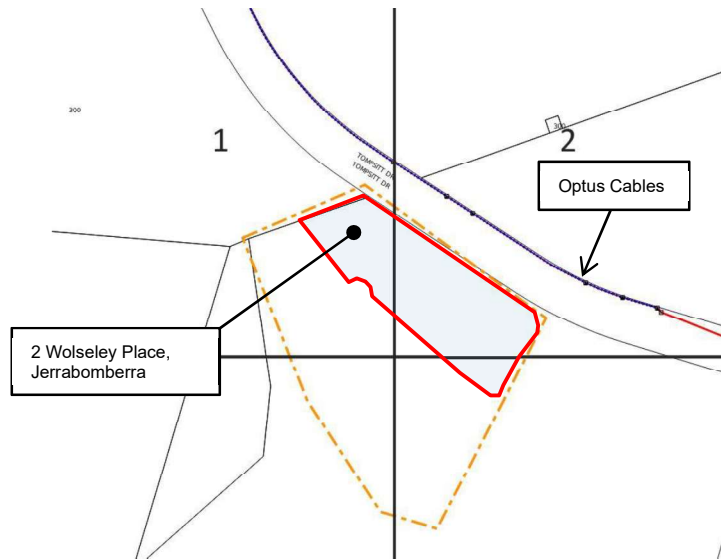


Figure 10 – Optus Telecommunication Assets around 2 Wolseley Place, Jerrabomberra (Source: BYDA)

It is anticipated that the site will have two Points of Entry (POE) for connectivity to the government optical fibre assets (ICON). The client shall coordinate with the relevant authorities to identify connections from the nearest pits in the vicinity of the proposed development to service the development during the detailed design phase.

5.3 POTABLE WATER

The existing potable supply owned by Queanbeyan-Palerang Regional Council (QPRC) is suitable to supply the combined water and wet fire services demand across the entire Proposed Development.

Potable Water asset plans provided by QPRC indicates presence of 225mm DICL water main along Environs Drive and a 150mm PVC water main along Wolseley Place. QPRC has advised that the site currently has an existing 50 mm water connection branching off the existing 150mm water main, as shown in **Figure 11**.

The existing 50mm water connection is not capable of serving the anticipated demand of the Proposed Development. A new 150mm water connection from the existing town mains is required to serve the site.

The peak flow rate for the Proposed Development (which includes domestic water and mechanical plant usage) to the site incl. all stages is approximately 9.29L/s. The Pressure and Flow Enquiry which was conducted indicates that the existing 150mm PVC water main is capable of delivering **22 litres/second at 580m head as a maximum flow**. Refer to Appendix A for the Statement of Available Water Pressure.

The total anticipated water demand (which includes domestic water and mechanical plant usage) to the site incl. all stages is approximately **5,921 kL** per year.

Refer to the table 3 below for the water demand and sewer usage for each individual stage.

Table 3

	Stage 1	Stage 2	Stage 3	Total
Mechanical Estimated Annual water consumption (m ³ / year) (Based on past weather history)	2,200	1,100	2,200	5,500
Domestic demand (m ³ /year)	266.5	0	154.5	421
Total mech + domestic demand (m³/year)	2466.5	1,100	2,354.5	5,921
Total annual peak water demand(L/s)	5.72	2.17	5.72	13.61
Mechanical Estimated Annual Sewer Usage (m ³ / year)	0	0	0	0
Sewer Annual Usage (m ³ / year)	173	0	147	320
Total mech + domestic Sewer Usage (m³/year)	173	0	147	320

The proposed design incorporates adiabatic air-cooled chillers with free cooling for heat rejection. While air-cooled systems do use some water for cooling during heat rejection from the IT load, the amount is significantly lower than that of open-loop cooling towers.

To minimize the makeup water required, the chiller/s will be programmed with set parameters and the adiabatic system within the chiller will only activate once high ambient temperatures are reached. Based on the site location this setting provides an appropriate balance between both energy and water saving initiatives.

A feasibility application shall be submitted to QPRC to confirm that the Council's assets can cater for the new proposed potable water demands. During detailed design, the Proposed Development will follow submission requirements to QPRC under the water connection process.

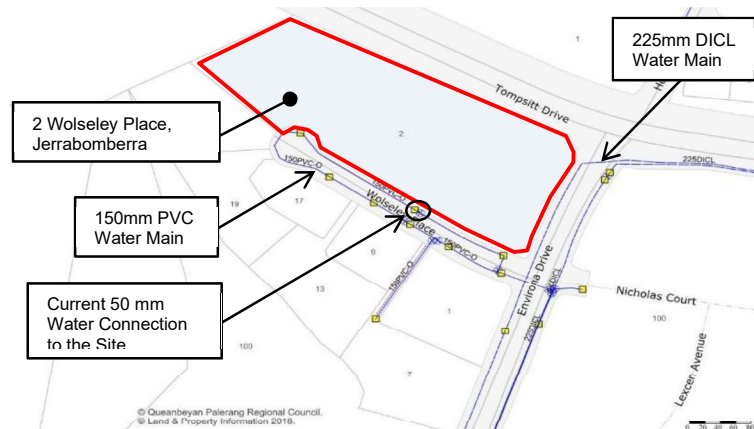


Figure 11 – Existing Potable Water Assets around 2 Wolseley Place, Jerrabomberra
(Source: QPRC Map, 2024)

DCI is considering getting reclaimed water by connecting to the Queanbeyan sewerage collection network which is located few kilometres away from the CBR01 site. This initiative has been discussed with QPRC, although use of recycled water cannot be relied upon for the purposes of this determination. It is DCI intent to continue to investigate this by completing a feasibility study during the detailed design of the building. DCI will liaise with relevant authorities throughout this process.'

5.4 FIRE WATER INFRASTRUCTURE

The fire water infrastructure is proposed to supply the fire sprinkler system and the fire hydrant system serving the new development.

The fire sprinkler system is proposed to be designed to NCC 2022 and AS 2118.1:2017 and the fire hydrant system to NCC 2022 and AS 2419.1:2021.

It is proposed to combine the water supply serving the fire sprinkler system and the fire hydrant system per the requirements of clause 4.13.2 of AS 2118.1. Accordingly, the water supply to the fire systems will be in the form of combined fire sprinkler and fire hydrant tanks, combined fire sprinkler and fire hydrant diesel pumps and combined fire sprinkler and fire hydrant booster valve assembly.

Fire Pumps:

It is proposed to provide two (2) combined fire sprinkler and fire hydrant diesel pumps to AS 2941; a full duty primary pump and a full duty standby pump for redundancy. The fire pumps will be located externally in a dedicated fire pump house adjacent to the fire water tanks.

Fire Water Tanks:

The combined fire sprinkler and fire hydrant tanks consist of two (2) above ground steel tanks each having a capacity equal to 50% of the total combined fire water demand. This will permit retention of at least half the supply when it is necessary to shut down for cleaning and repairs.

It is proposed that the preliminary total effective capacity of each tank be 275,000L. The tanks are sized based on 3no. fire hydrants to operate simultaneously at 10 L/s each for 4 hours and allow for fire sprinkler protection to up to Ordinary Hazard 3 per AS 2118.1. This assessment and preliminary fire water tank capacities shall be confirmed during detail design and the fire safety study assessment.

Fire Tanks Manual Quick Fill Facility:

The fire hydrant and sprinkler tanks are being served with a manual quick fill facility that is connected to the QRPC Town Main. The manual quick fill facility incorporates normally closed isolation valves that are open when the fire tanks are used – example after a fire event. The manual quick fill facility will re-fill the tanks within the required duration listed in AS 2118.1 and AS 2419.1 from the Town Main water supply.

Fire Booster Valve Assembly and Fire & Rescue ACT Hardstands:

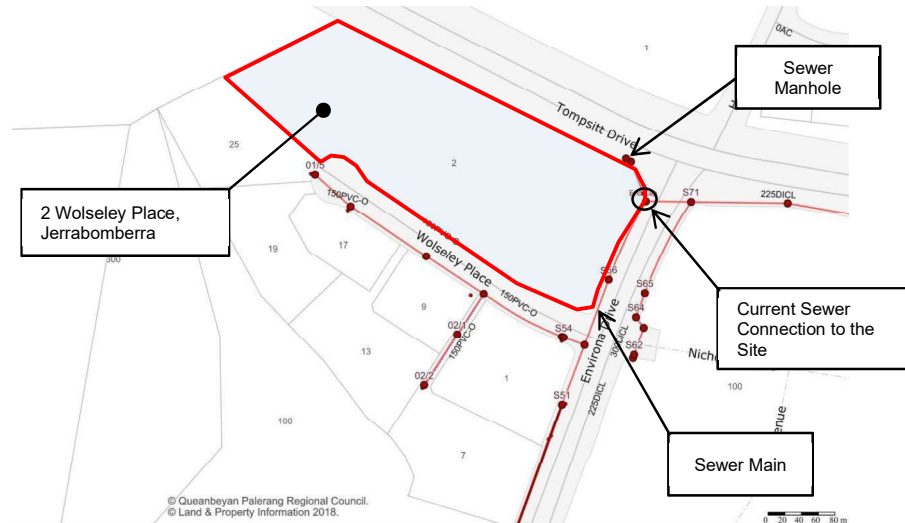
Preliminary booster valve assembly size (of max 60 L/s) to suit the above assessment will require two (2) hardstands for two (2) fire brigade pumping appliances. Two (2) dedicated hardstands serving tank suction outlets will be required in front of the booster valve assembly, 18m x 6m each.

5.5 SEWERAGE

Sewer asset plans provided by QPRC indicates that there are existing sewer mains and manholes along the east and south boundaries of the site along Environa Drive and Wolesley Place.

QPRC has advised that the site currently has an existing sewer connection point near the north eastern corner of the site, as indicated in **Figure 12**.

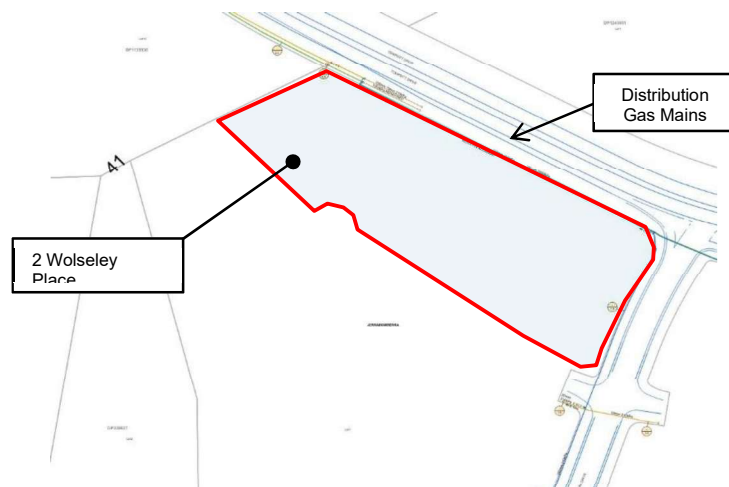
A water and sewer connection application shall be submitted to QPRC to confirm that the Council's assets can cater for the new proposed wastewater demands. During detailed design, the Proposed Development will follow submission requirements to QPRC under the water and sewer process.



*Figure 12 – Existing Sewer Infrastructure around 2 Wolesley Place, Jerrabomberra
(Source: QPRC Map, 2024)*

Refer to the Hydraulics site plan attached as part of appendix B and table 3 for the Sewerage usage details. The site has no trade waste requirements. The proposed mechanical plant will have no trade waste discharge to the sewer network.

5.6 GAS



*Figure 13 – Existing Evoenergy Gas Assets around 2 Wolesley Place, Jerrabomberra
(Source: BYDA)*

Evoenergy BYDA plans indicate the presence of high pressure gas mains along Tomsitt Drive. No natural gas supply is expected to be required for the proposed development, as all heating demands are to be met by electric powered equipment.

5.7 STORMWATER

Existing Stormwater Drainage System

The existing site slopes from west to east towards Environa Drive. The local stormwater system is owned and operated by Queanbeyan-Palerang Regional Council (QPRC). shows existing council pits and stormwater mains located around the boundary of the Proposed Site.

The proposed stormwater design allows to pick up the stormwater flows on site via swales, and a pit and pipe system. These flows will collect in a basin and be treated using proprietary products to meet Council's stormwater quality targets prior to being discharged to Council's stormwater network.

The stormwater design shall be coordinated with services such as the electrical and fire design, as well as the latest survey in order to ensure optimal design outcomes.

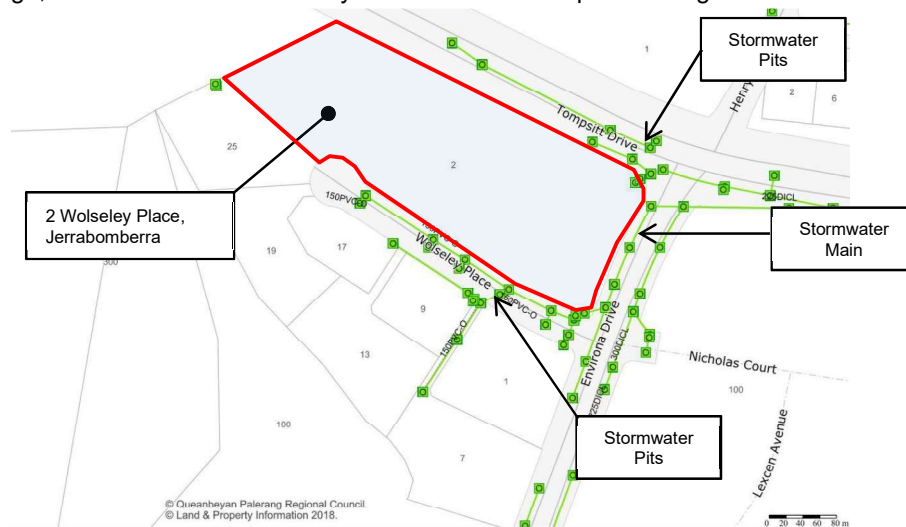


Figure 14 – Existing Stormwater Infrastructure (Source: QPRC Map, 2024)

5.8 OVERLAND FLOW

In the Flood Study Report prepared by Egis as part of the development application, the development site is noted to be located below Wolseley Drive and drains to Tomsitt Drive to the north.

The hydraulic model produced in the study has included the surface modelling for the proposed site, and Wolseley Drive and it is assumed that the road will collect the flows from the upstream catchments and convey these flows via gutter drain.

The proposed site levels of the development shall be designed in order to optimise the overland flows across the site and the balance of cut and fill. The stormwater design coordinates with the overland flows to transport stormwater towards the basin at the low point of the site and comply with minimum required levels as stipulated in Council's Stormwater Drainage Design Specification.

6.0 CONSTRUCTION

The proposal will be delivered as follows:

- Construction is anticipated to commence in 2026. A detailed construction delivery and staging plan would be developed by the construction contractor prior to the commencement of construction. The detailed construction and staging plan would describe the dates of commencement and anticipated duration for the construction of each key project element.
- Site preparation and site establishment including set up of restricted areas, hoardings and other safety measures including traffic management measures and construction controls.
- Site compounds established.
- Connection to services, including potable water, wastewater, electricity and communications would be undertaken at agreed stages during construction. Minor power use will be required during construction. The use of potable water will be minimised and construction use limited to small amounts for potable use, dust suppression and washing of hard surfaces for safety management.
- Commence construction to agreed scope and programme.
- Installation of security measures.
- Site commissioning and testing. Commissioning will include testing all elements of the development including safety, quality systems and processes.
- Sign off from relevant infrastructure authorities to be obtained as relevant.
- Following commissioning, the construction stage will be complete. The site will move into business as usual operations.

**APPENDIX A – QUEANBEYAN-PALERANG REGIONAL COUNCIL STATEMENT OF
AVAILABLE WATER PRESSURE**

STATEMENT OF AVAILABLE WATER PRESSURE



Statement No: WPT0077
Applicant: HDR Inc. - Jie Sun
 Level 24, 25 Martin Pl.
 Sydney NSW 2000
Property: Lot 6 DP 1288362
Site Address: 2 Wolseley Pl. Jerrabomberra
Details: Water Pressure Test

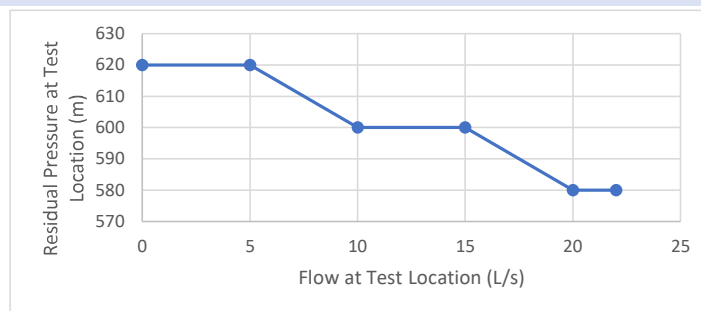
ABN: 95 933 070 982
 PO Box 90
 Queanbeyan NSW 2620

Network and Location Details

Primary Water Type Potable Water
Main Diameter 150 mm
Main Material PVC-0
Location Refer to image on page 2

Test Results

Flow at Test Location (L/s)	Residual Pressure (m)
0	620
5	620
10	600
15	600
20	580
22	580



Maximum permissible firefighting flow 25L/s

Additional Information

Residual pressures have been calculated in accordance with Clause 4.2.7.1.2(d) of AS2419.1:2021
 With reference to Clause 4.2.1(a) of AS2419.1:2021, the reservoir supplying this location is capable of supplying the shown flow rates for at least four hours.

Disclaimers

QPRC provides the above information to assist building owners and designers to determine their obligations under AS2419. QPRC has made best endeavours to determine the available flows and pressure at the nominated location. QPRC strongly recommends early testing of firefighting systems to ensure that any issues that may arise can be dealt with in a timely manner. Appendix K of AS2419.1:2021 specifically notes that the building or site owner(s) is/are responsible for achieving the minimum firefighting system performance requirements over the life of the system. Developments requiring flows in excess of the maximum permissible firefighting flow shown in this Statement will need to provide balance tanks or other supplementary systems to meet their flow requirements. QPRC does not guarantee that the available flows and pressures contained in this Statement will be maintained for the life of any development. At the date of this Statement, the Utilities Branch of QPRC is not aware of any planned changes to the network that would have a material negative impact on the values contained in this Statement. Any changes to firefighting systems that may be required in the future will be at the full cost and full responsibility of the owner(s) of the subject site. This Statement is only for the use by the listed Applicant and is only valid for 12 months from the date shown on this Statement.

Certification

Name	Brendan Belcher	Date	06/09/2024
Role	Coordinator Utilities Technical	Signed	

STATEMENT OF AVAILABLE WATER PRESSURE



ABN: 95 933 070 982

PO Box 90

Queanbeyan NSW 2620

Statement No: WPT0077
Applicant: HDR Inc. - Jie Sun
Level 24, 25 Martin Pl.
Sydney NSW 2000
Property: Lot 6 DP 1288362
Site Address: 2 Wolseley Pl. Jerrabomberra
Details: Water Pressure Test

Test Location

Test data was derived from the location illustrated in the image below.



APPENDIX B – HYDRAULICS SERVICES SITE PLAN

