

Date: 23/03/2022
Our Reference: 201117

Attention: Ferdinando Macri
Planning Officer, Social and Infrastructure Assessments
Infrastructure Assessments | Department of Planning,
Industry and Environment.
4 Parramatta Square, Locked Bag 5022
Parramatta NSW 2124

RE: LANG WALKER AO MEDICAL RESEARCH BUILDING LWMRB, MACARTHUR – SSD-17491477 RESPONSE TO SUBMISSIONS - SYDNEY WATER

This letter is to address the Response to Submissions feedback received from Sydney Water in regards to the following items:

- *Potable water servicing should be available via 150mm uPVC watermain (laid in 2003) on Parkside Crescent.*
- *There should be capacity within the existing watermain to service the proposed development.*
- *Wastewater servicing should be available via 150mm PVC wastewater main (laid in 2003) within the property boundary.*
- *All properties connected to Sydney Water's supply must install a testable Backflow Prevention Containment Device appropriate to the property's hazard rating. Property with a high or medium hazard rating must have the backflow prevention containment device tested annually. Properties identified as having a low hazard rating must install a non-testable device, as a minimum.*
- *Separate hydrant and sprinkler fire services on non-residential properties, require the installation of a testable double check detector assembly. The device is to be located at the boundary of the property.*

Based on a Feasibility letter (Case No. 193952, dated Sept 13, 2021) received from Sydney Water, preliminary advice was provided that Sydney Water's waste water & potable water main's would have sufficient capacity to serve the development. LCI adopted the advice provided from Sydney Water to develop the hydraulic services design for the Lang Walker AO Medical Research Centre.

A statement of pressure and flow was received from Sydney Water for the DN.150 watermain within Parkside Crescent. The statement confirmed that the water main had sufficient pressure and flow to cater for the Lang Walker AO Medical Research Centre's hydraulic and fire systems peak demands.

A Reduced Pressure Zone Device (RPZD) valve assembly is provided on the incoming potable water service to the Lang Walker AO Medical Research Centre, located at the property boundary. A dedicated double check detector valve will be provided to each of the Fire hydrant and Fire Sprinkler services and located at the brigade booster assemblies.

As part of the ongoing design development, it is recommended that the following is undertaken.

- A Section 73 application certificate is submitted to Sydney Water.
- A pressure and flow application is resubmitted to Sydney Water.

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Should you require any further clarification on the above please feel free to contact me.

Yours Faithfully,

A blue ink handwritten signature, appearing to read 'Alex Tamras', written over a horizontal line.

Alex Tamras
Hydraulic Consultant



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