



Hunter Water Corporation
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11 December 2023

MINISTER FOR EDUCATION & TRAINING
C/- ADW Johnson Pty Ltd
UNIT 7, 335 HILLSBOROUGH ROAD
WARNERS BAY NSW 2282

Dear Andrew,

Thank you for completing our Hydraulic Design Assessment Application. A summary of your application details submitted on 5 December 2023 are outlined below.

Hydraulic design

Application service:	Hydraulic Design Assessment Application
Property address:	100 RYANS RD, GILLIESTON HEIGHTS NSW 2321
Lot & Plan number:	Lot 51 DP 1162489
Installation ID:	6770300776
Development description:	Development – Connection of the existing school to sewer and relocation of water service to the property frontage for the school to become a standard customer
Development type:	Commercial
Hunter Water reference:	2022-181

Meter and service information

Service size:	32 mm
Proposed water meter size:	32 mm
Water supply probable simultaneous demand:	Existing
Disconnections	Water DB02591
Required sewer connection:	Yes

Backflow device for domestic

# Device1	
Device Type:	Reduced Pressure Zone Device
Service Type:	Domestic

Size:	32mm
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Pump to sewer

Facility capacity:	4000.000
Flow rate (litres/second):	2.400 l/s
Pressure:	16.500 l/s

Based on the information provided in your application and associated design drawings, the requirements for connection to Hunter Water's water and sewer infrastructure are outlined below.

Works

To supply:

- drinking water
- sanitary drainage
- pump to sewer connection

to the development.

1. Water supply connection criteria

- 1 x 25mm drilling to Hunter Water's 150mm PVC-O water main located in Northview St.
- 1 x 32mm property service.

Metering

- 1 x 32 water meter for the drinking water service.

Site containment

- 1 x 32mm Reduced Pressure Zone Device (RPZD) for drinking water service.

Disconnections / connections

- Return 25mm water meter DB02591 and disconnect water.
- Connect to water and sewer.
- 1 x meter affixture.

Mechanical meter specifications

Size	Inlet and Outlet	Meter Length	Overall pipe space
32mm	2 Bolt Oval Flange	190	190 flange to flange

Rainwater reuse criteria

- No rainwater tanks

2. Trade wastewater connection criteria

- No Trade Wastewater

3. Sewer connection criteria

- Sewer inspection shaft connection
4. The owner's agent / designing consultant are required to provide a copy of this assessment to the property owner and the licensed plumbing contractor engaged to carry out the works.
 5. Hunter Water's approval to connect to the water and sewerage systems servicing the above property is subject to compliance with the Hydraulic Design Job Specific Conditions detailed in **Annexure 'A'** and the Hydraulic Design General Conditions as detailed in **Annexure 'B'**.
 6. Hunter Water references the requirements to install **site containment backflow** prevention devices. **Zone containment backflow** prevention devices installed within the development are the responsibility of the designing consultant / licensed plumbing contractor engaged.
 7. Hunter Water's records indicate this property as a **high** hazard category. This reference will be recorded for maintenance and testing purposes.
 - The site containment initial test reports shall be forwarded to Hunter Water within seven days of installation.
 - Site containment devices require mandatory annual testing by a backflow prevention accredited plumber.
 - It is the responsibility of the property owner to organise ongoing testing and maintenance.
 - The property owner is responsible for the maintenance, upgrade and/or replacement of the site containment backflow device.

8. Next Steps - Application & Inspection criteria

- a. **Water disconnection - Application and fees to Hunter Water.**
 - b. **Water disconnection inspection - Mandatory booking with Hunter Water.**
 - c. **Water and sewer connections - Application and fees to Hunter Water.**
 - d. **Water connection inspection - Mandatory booking with Hunter Water.**
 - e. **Site containment and sewage pump station inspection - Mandatory booking with Hunter Water on completion of works (no fee required).**
9. Connection to water and sewer will not be available for this proposal until a Section 50 Compliance Certificate has been issued by Hunter Water for this development.
 10. Hunter Water's review is based upon drawings and documentation submitted with and/or during the application assessment process. All works to be installed shall comply with Hunter Water requirements, the Plumbing Code of Australia, AS/NZS3500 and any other relevant Australian Standard pertaining to the works to be installed. Any changes to the submitted drawings and/or documentation will require application resubmission, Hunter Water review, and formal approval.

11. All main sewer inspection shafts / boundary traps, Hunter Water supplied water meters, trade waste facilities, sewerage test points, pumps and any other item of infrastructure or plant installed that may periodically require inspection or testing by Hunter Water employees or their agents, shall be constructed and/or installed to provide a safe access and work environment as required by current WH&S legislation.
12. This hydraulic letter and approval to connect to water and sewer services is valid for 18 months from the date of issue of this correspondence. After this timeframe a new Hydraulics Assessment application is required to be submitted to Hunter Water.
13. You will be required to make an application for the connection and disconnection of the water and sewer services to Hunter Water's existing systems. This is a mandatory requirement.

We are here to help. If you have any questions or need further assistance please contact Phil Delbridge - Plumbing and Trade Waste Team on 1300 657 657.

Yours sincerely



Phil Delbridge
Senior Plumbing and Trade Waste Compliance Officer

Att: Annexure 'A' Hydraulic design job specific conditions
Att: Annexure 'B' Hydraulic design general conditions



ANNEXURE 'A'
HYDRAULIC DESIGN
JOB SPECIFIC CONDITIONS

1. Any redundant water and sewer services shall be capped off or removed in an approved manner including the return to Hunter Water of any water meter/s within 24hrs of their removal.
2. Forward all commissioning and test results for site containment back flow prevention devices to Hunter Water within seven days of installation.
3. Locate all water meters above ground, in the horizontal and upright position and within one metre of the property boundary adjacent to the water main connection.
4. Protect all water meter frames from vehicular / pedestrian damage and vandalism. Afforded protection must still allow Hunter Water access for water meter reading, maintenance and replacement.
5. Hunter Water is to be granted unrestricted access to the water meter for reading purposes. The water meter shall be installed in the horizontal plane, fully supported with minimum ground clearance to suit the reduced pressure zone device (RPZD).
6. All incoming domestic water and fire services shall comply with the Plumbing Code of Australia, AS/NZS 3500, and Hunter Water's water connection and backflow requirements.
7. No brass fittings shall be silver brazed or soft soldered between the water main and the outlet of the backflow prevention device located within the meter frame, for sizes 20mm, 25mm, 32mm, 40mm & 50mm diameter. The connection to the water main shall be made by a compression flare union, positioned to allow easy disconnection between the flared pipe fitting and main tap connection.
8. No approval for the connection of any rain water tanks to Hunter Water's potable water supply is granted.
9. No approval for the connection or the installation of an alternative water supply is granted.
10. The property owner being the owner of the private sewage pump station is responsible for maintenance, supply of water and electricity and is required to keep the pump station in a manner suitable for public health and to comply with the relevant standards and Hunter Water's Customer Contract.
11. Please read and install sewer pump out system in accordance with the attached Technical Specification and AS/NZS3500.

12. Redundant septic tanks shall be decommissioned/demolished to the Local Council Requirements.
13. No approval for the installation of any trade waste facilities or equipment is granted.
14. Should Hunter Water experience any problems with liquid waste and solid matter in its sewerage system due to operations at the above-mentioned premises, the applicant / owner will (at their own cost) be required to rectify / upgrade the existing waste facility, or install a pre-treatment facility relevant to the wastewater discharge.



ANNEXURE 'B'

HYDRAULIC DESIGN

GENERAL CONDITIONS

1. The design is to comply with the provisions of:
 - Plumbing Code of Australia: Plumbing and Drainage
 - Australian Standards: Plumbing & Drainage (AS/NZS 3500)
 - Hunter Water's Trade Waste Policy, Backflow Prevention Policy, Plumbing and Drainage Guidelines and related policies/guidelines.
2. All plumbing and drainage work is to be carried out by a plumbing contractor licensed by NSW Fair Trading. Materials and installation shall comply with the above codes. Inspections required by Hunter Water are to be arranged a minimum two working days prior to the date of inspection.
3. Hunter Water accepts no responsibility for the design, installation, operational functionality or performance of the plumbing and drainage system.

4. Trade wastewater dischargers:

Hunter Water is responsible for the approval of all trade waste facility designs and sizing, by means of reviewing hydraulic design submissions.

All developments with the potential to discharge trade wastewater into Hunter Water's sewerage system will be required to make application for a Trade Waste Agreement. A Trade Wastewater Agreement application form is available on Hunter Water's website on www.hunterwater.com.au

Please note: All concrete grease traps installed in Hunter Water's area of operation are to be coated internally with an approved material prior to their installation.

5. All new developments that have the potential to discharge trade waste to Hunter Water's sewerage system are to have a 150mm boundary trap installed at the connection point to the sewer main. This allows Hunter Water's trade waste officers to carry out sampling of the developments trade waste discharge.
6. Strata Title developments require the Body Corporate as Hunter Water's customer. A separate application by the Body Corporate for issue of sub meters is to be accompanied by a copy of the registered strata plan. Sub meters are to be accessible at all times.
7. Fire hose reels shall only be connected to a metered service. They are to be designed and constructed in accordance with the Building Code of Australia.

8. Hunter Water recommends a 500kPa pressure reduction valve be installed at the outlet of the site containment device as required by AS/NZS3500.1.2015 clause 3.3.4.
9. Fire Services - An Australian Standard approved, testable double detector check backflow prevention device is to be installed at the boundary as a property site containment device. A minimum differential pressure of 20 kPa is required between the sets AS/NZS2845.1 clause 11.4.2.
10. Fire hydrant/sprinkler services are for firefighting purposes only, unauthorised use is prohibited.