

altogether.

plumbers guide.

water

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2. purpose

The purpose of this document is to provide a guide for plumbers about what they need to do to prepare a housing lot for connection to Altogether drinking water, recycled water and sewerage systems. This Plumbers Guide can be used as a stand-alone document or can be read in conjunction with Altogether's [builders' guide](#).

3. plumber requirements

A licensed plumber is required to:

- Connect Sewer drainage to the wastewater collection tank's riser pipework.
- Install dual reticulation infrastructure for drinking and recycled water.
- Connect recycled water to:
 - All toilets,
 - Cold washing machine taps,
 - A minimum of two outdoor water taps (a minimum of three outdoor water taps if there is a secondary dwelling); and
 - Ensure all recycled water pipes are clearly marked to comply with AS3000 National Plumbing and Drainage Code.
- Connect drinking water to:
 - Kitchens.
 - Hand basins and showers.
 - Any drinking water taps.
 - Swimming pools; and
 - Spas.

4. standard property connections

The following standard connections are required:

- Two water service pipes will be pre-laid by the developer and enter the property (one drinking water and one recycled water). For further information refer to our Infrastructure Staging diagrams:
 - [FSI-1001A-FS](#) – Tank in front of property
 - [FSI-1001B-FS](#) – Tank in rear of property
- The pre-laid property service pipe and stop cock for recycled water will be identified by a purple-coloured pipe in accordance with AS2700 and warning tape will be attached to the pipes.
- The recycled water meter stop tap will be locked shut with a flow locking pin for security of the system and will not be removed until completion of the final inspection by Altogether.
- The pre-laid drinking water property service will be coloured blue and will have a locking pin supplied by Altogether (if drinking water is supplied by Altogether).

- Altogether uses a pressurised sewer network so the household sewer line needs to be connected to the pressure sewer collection tank riser pipe as shown in [PSS-111-FS](#).

5. building approval conditions

A water services diagram and landscape or site plan is required to be lodged with and approved by Altogether Group prior to issue of the Construction Certificate.

The water services diagram must include a scale drawing showing all on lot and 'in property' water related services including fixtures and fittings that each pipe is connected to. The design is to be at a scale of 1: 100 in PDF format and include connection of services to the wastewater tank and recycled water services connected to the following:

- All toilet cisterns;
- Clothes washing machines - cold tap only (No cold drinking water tap is permitted);
- A minimum of two outdoor recycled water taps (We recommend having one tap in the front of the property and one in the rear to enable customers to safely water their gardens and lawns, as well as other permitted uses). If there is a secondary dwelling a minimum of three outdoor recycled water taps is required.
- Rainwater tanks are not permitted.

You can refer to our example of an acceptable water services drawing below:

- [PSS-1004-FS](#)

6. drinking water meters (where applicable)

Drinking water meters must be purchased [here](#) prior to submission of your altogether building approval for communities that are serviced with drinking water.

Once the meter has been installed, we will commence billing the property owner for service charges and usage monthly. Drinking water meters must be installed by Altogether prior to construction. Please allow 20 business days from your purchase for the drinking water meter to be installed.

A separate water meter is required for each additional dwelling. If you require multiple meters, please purchase a secondary meter [here](#).

For non-standard buildings (e.g. apartments, townhouses, villas etc), please contact Altogether on 1300 803 803 to discuss our requirements. To meet building requirements, non-standard buildings may require different meter types. Additional details can be found [here](#).

Altogether will install the recycled water meter at final connection.

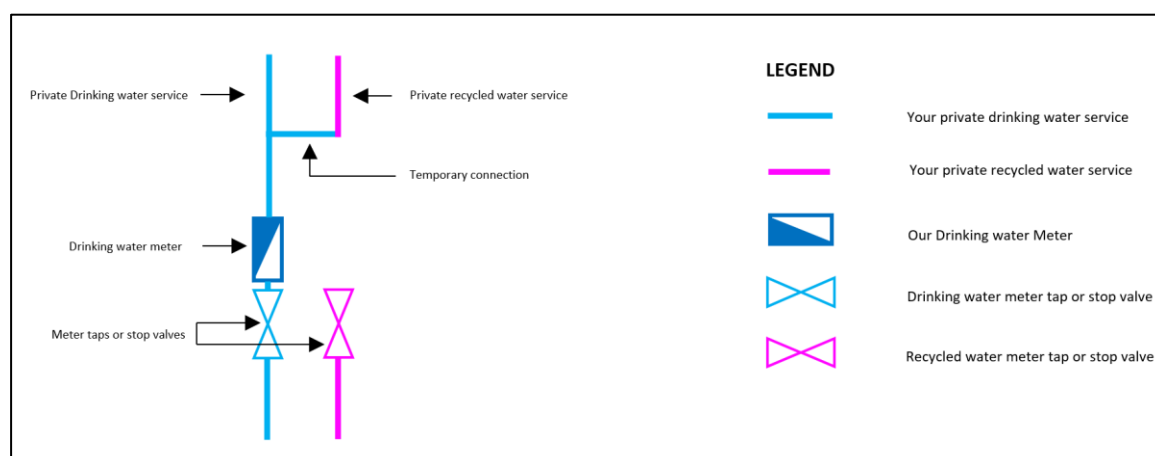


Figure 1 - Typical configuration of drinking water meter during construction

7. meters for non-standard developments

This guide does not cover non-standard buildings or developments such as dual occupancies, apartments, townhouses, commercial, subdivisions etc. please refer to our [developer guide](#).

8. meters for secondary dwellings

[Secondary dwelling water meter/s](#) must be metered and billed separately from your primary dwelling's.

- Huntlee & Cooranbong: Altogether is the drinking water and recycled water utility. If you are constructing a secondary dwelling you must purchase a drinking & recycled water meter for each additional dwelling.
- Box Hill/Gables & Pitt Town: Altogether is the recycled water utility only. If you are constructing a secondary dwelling you must purchase a recycled water meter for each additional dwelling.

If you are building your secondary dwelling at the same time as your primary dwelling, the [secondary dwelling water meter/s](#) will be installed once construction is complete and the property is connected.

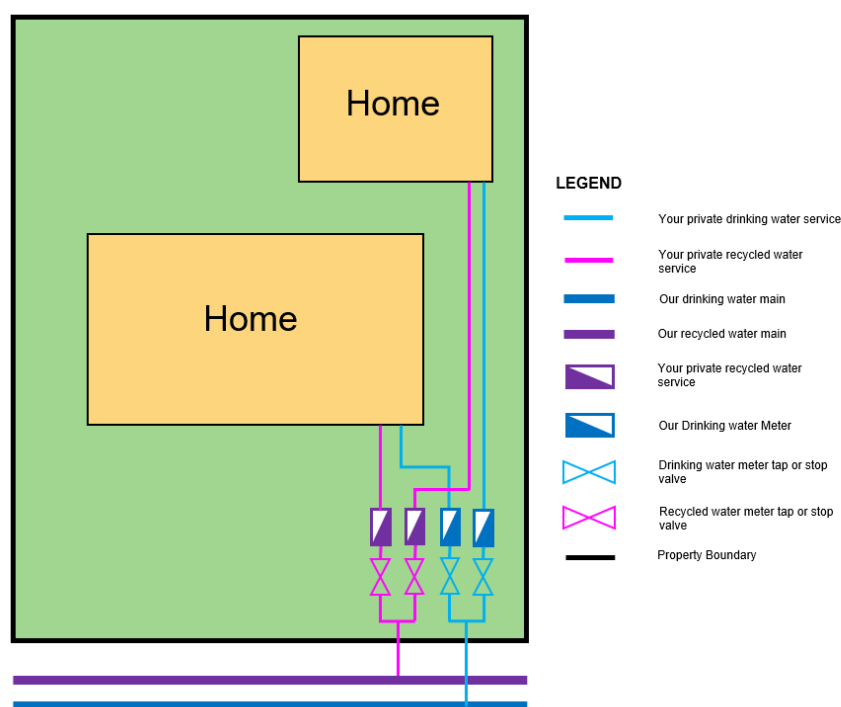


Figure 2 - Connection of a secondary dwelling with 2 meters.

9. installation of meter(s)

It is important that the meter is installed in the right location, so we are able to access the meter to read, inspect and maintain the meter as required.

The meter should be installed so that the inlet riser is within the following limits:

- Between 300mm and 1,000mm inside the front property boundary
- Between 300mm and 600mm from the left or right property boundary
- Between 300mm and 600mm from the ground
- Installed parallel to the closest boundary
- If meters are installed close together there must be a minimum of 300mm distance between the meters
- If the property is connected to both drinking water and recycled water, the drinking water meter should be closest to the side property boundary

You must not install the meter:

- more than 1.5 meters above the ground
- in a location we cannot regularly access

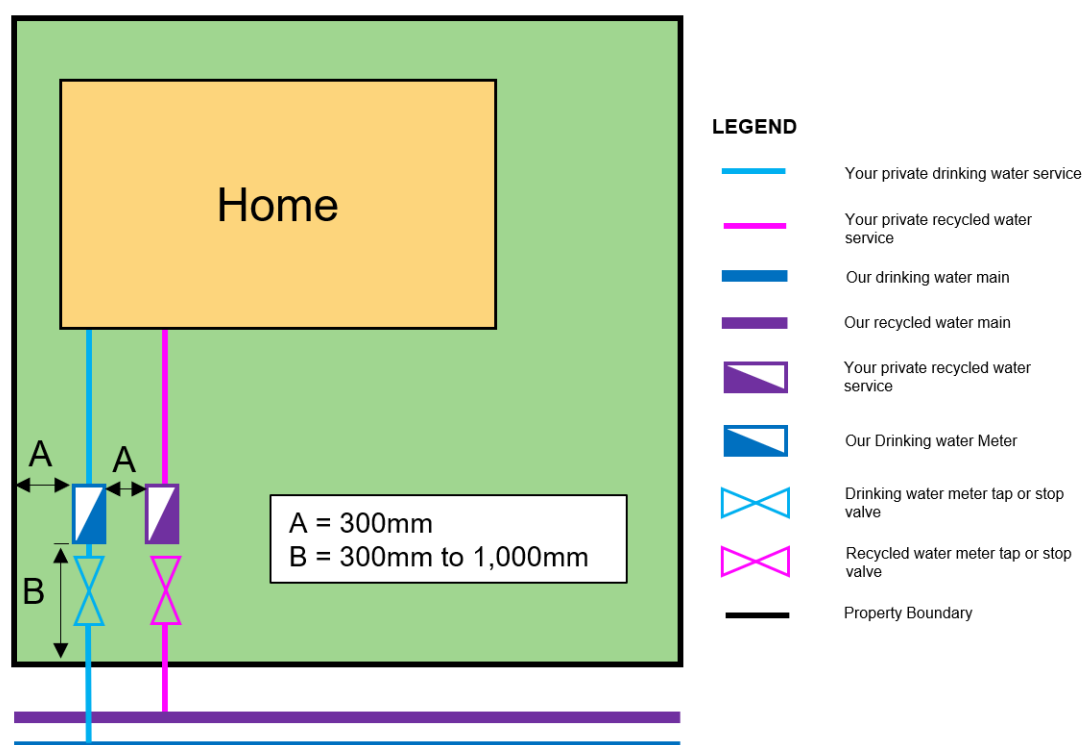


Figure 3 - location of the water meter

If you are unable to install the meter in the correct location as described above, you must contact Altogether on 1300 803 803 to discuss requirements. For approval of non-standard plans allow 15 business days for review.

Note

Customers in communities where Altogether does not provide drinking water services should apply to the incumbent water utility for their drinking water meter.

10. backflow prevention

20mm and 25mm meters supplied by Altogether have internal backflow check valves so there is no need to install a separate backflow prevention device for low-risk applications. For medium-risk and high-risk applications (i.e. one that may contaminate the water supply) there may be a requirement to install a separate backflow prevention device. All properties connected to our drinking water and recycled water infrastructure must comply with the site containment backflow requirements of AS/NZS 3500 (Australia and New Zealand Standard for Plumbing and Drainage Part 1) and the Plumbing Code of Australia for both services.

Details of separate backflow prevention devices installed, including manufacture, model, serial number and install date, must be supplied to Altogether prior to connection.

11. recycled water in washing machines

Altogether mandates a recycled water washing machine tap on all new works. This means there will be two taps to supply the washing machine

- hot drinking water and
- cold recycled water.

12. inspections

It is the responsibility of the contracted, licensed plumber to contact NSW Fair Trading (or its delegate), to audit each stage of the installation of the pipe work. All works must be installed, tested and commissioned in accordance with the NSW State Code of Practice and AS/NZS 3500.

- **Main to meter:** no inspection is needed. It will have been previously inspected by Altogether Group.
- **Meter to house:** do not backfill the trenches until NSW Fair Trading (or its delegate) passes inspection. A 'passed' sticker will be left on the pipework in the open trench.
- **Internal plumbing pipe work of dwelling:** do not install wall sheets until NSW Office of Fair Trading passes inspection. A 'passed' sticker will be attached to the recycled water pipework in the bathroom and laundry areas.
- **Final cross connection control test inspection:** a licensed plumber needs to be present on site while the NSW Fair Trading (or its delegate) inspects the pipework.

final plumbing inspection

As outlined above, please ensure the plumber complies with NSW Fair Trading's requirements for the various plumbing and drainage inspections required. Depending on the area, NSW Fair Trading may delegate these inspections to be carried out by the local council.

NSW Fair Trading - local plumbing regulators in NSW

Once construction of the home is complete, you will need to request a water and wastewater [pre-connection inspection](#).

Our technicians will complete a [pre-connection inspection](#) to ensure that your home complies with our requirements prior to wastewater and recycled water connection. Altogether will need access to your home to satisfy all the connection assessment criteria.

- If your home passes inspection we will notify you and your builder of your connection date.
- If your home does not pass the inspection, we will notify you and your builder by outlining what needs to be fixed.

Please note: fees are applicable to every re-inspection, so please ensure you are compliant the first time.

To book a [pre-connection inspection](#) you need to provide the following documentation:

- Final pre inspection report OR Final plumbing inspection sticker issued by NSW Government, Office of Fair Trading
- Certificate of compliance for electrical work (CCEW)