RECYCLED WATER CONDITIONS

Supplementary Conditions of Connection for Class A Recycled Water

IMPORTANT NOTICE - MUST BE PASSED TO THE PLUMBER & PROPERTY OWNER

<table>
<thead>
<tr>
<th>Checklist</th>
<th>✓ or X</th>
</tr>
</thead>
<tbody>
<tr>
<td>This property must be connected to recycled water</td>
<td></td>
</tr>
<tr>
<td>All toilets to be connected to recycled water</td>
<td></td>
</tr>
<tr>
<td>Recycled water external taps front &amp; back to be provided</td>
<td></td>
</tr>
<tr>
<td>Laundry (washing machine stop tap) to be connected to recycled water</td>
<td></td>
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<tr>
<td>All pipework to be inspected by YWW [<a href="http://www.yww.com.au/rwinspection">www.yww.com.au/rwinspection</a>]</td>
<td></td>
</tr>
<tr>
<td>All recycled water pipework to be purple as per AS3500</td>
<td></td>
</tr>
<tr>
<td>Meters have not been moved. Only YWW can move the meters</td>
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</table>

Subdivisions will not be issued with Statement of Compliance until these recycled water conditions and any other conditions imposed by YWW have been met.

These conditions are issued under Section 145 of the Water Act 1989 ("the Act") and are applicable to properties supplied with Class A recycled water. These conditions are additional to any other conditions issued in relation to water supply and sewerage works. **Penalties apply under the Act for breaches of these conditions.**

**Recycled Water Supply**
In addition to the drinking water supply, this property must be connected to the Class A recycled water supply system.

Until Class A recycled water becomes available in the recycled water pipes, the property will be supplied with drinking water only. Drinking water will be supplied through both the drinking water and the Class A recycled water systems.

Residents will be advised prior to the Class A recycled water supply becoming available.
1. Breaching these Conditions

1.1. Yarra Valley Water may undertake follow up action under the Act for observed non-compliance to these conditions. Action may include:

   (a) Serving a Notice to the applicant or property owner under Sections 150/151 of the Act. If a Notice is not complied with Yarra Valley Water will carry out any works and take any other action necessary to remedy the contravention and recover reasonable costs from the person on whom the Notice was served.

   (b) Discontinuation of supply without notice under Section 168 of the Act

   (c) Escalation to relevant authorities including the Victorian Building Authority (VBA)

2. Recycled Water Agreement and Environment Improvement Plan (EIP) - Non-Residential only

2.1. Where required by YVV, the site occupier must submit an EIP to YVV’s satisfaction and enter into a Recycled Water Agreement with YVV prior to the supply of Class A Recycled Water being made available to the property. For details of this please email recycledwater@yvv.com.au

3. Recycled Water Plumbing

3.1. Toilet cisterns

   (a) Residential

      (i) All toilet cisterns (excluding bidets) must be connected to the Class A Recycled Water Supply.

      (ii) Toilets with an integrated bidet are not to be connected to the Class A Recycled Water Supply.

   (b) Non-Residential

      (i) All toilet cisterns (excluding bidets) must be connected to the Class A Recycled Water Supply unless YVV has otherwise received and approved an application to the contrary.

      (ii) Toilets with an integrated bidet are not to be connected to the Class A Recycled Water Supply.

3.2. Rainwater Tanks

   (a) Rainwater tanks may be used for outdoor taps, irrigation systems and flushing of toilets.

   (b) Backup supply to the rainwater tank is only to be provided via an automatic changeover device connected to the Class A recycled water supply. All pipework must be
appropriately marked as “Recycled or Reclaimed Water – Do Not Drink” and taps must comply with the recycled water plumbing requirements.

3.3. External Taps – Residential

(a) An external recycled water tap must be installed to service the front of the property:

(i) Yarra Valley Water supplies a purple recycled water riser and tap with removable tap handle and signage at the time of the tapping for single residential lots/houses. The tap can be relocated by the private plumber if required but not removed. **Under no circumstances are the meters to be moved.**

(ii) The private plumber is required to fit the front purple recycled water tap with removable tap handle and signage for each unit in a single level residential unit development, or for the common property in a multi-level residential unit development.

(iii) Taps must be located to service the front external area of the property by use of a garden hose and must not be obstructed by any permanent fixture such as a fence or wall.

(b) An external recycled water tap must be installed to service the rear of the property:

(i) Taps to be located to service the rear external area of the property by use of a garden hose and must not be obstructed by any permanent fixture such as a fence or wall.

(ii) For single level unit developments, rear taps are to be installed per unit, or for the common property in a multi-level unit development.

(c) All external recycled water taps must have the following features:

(i) The whole body of the tap and handle must be coloured purple

(ii) Tap to be the jumper valve type

(iii) Tap handle must be the removable type

(iv) Standard thread on tap outlet for garden hose bib

(v) Tap inlet to have 5/8” right hand thread

(d) An external drinking water tap must be installed to service the front of the property

(i) Yarra Valley Water supplies a drinking water riser and tap with atmospheric vacuum breaker at the time of the tapping for single residential lots/houses. The tap can be relocated by the private plumber if required but not removed. **Under no circumstances are the meters to be moved.**
(ii) The private plumber is required to fit the front drinking water tap with atmospheric vacuum breaker for each unit in a single level residential unit development, or for the common property in a multi-level residential unit development.

(iii) Taps must be located to service the front external area of the property by use of a garden hose and must not be obstructed by any permanent fixture such as a fence or wall.

(e) **All external drinking water supply taps must be fitted with atmospheric vacuum breakers.**

(f) Where prior approval has been sought to install meters in pits, it is the responsibility of the private plumber to provide front taps for the drinking and Class A recycled water supplies.

3.4. External Taps – Non-Residential

(a) External recycled water taps may be installed to service the front and/or rear areas of the property.

(b) All external recycled water taps must comply with the features detailed in section 3.3(c).

(c) At least one external drinking water tap must be provided to service the property.

(d) **All external drinking water supply taps must be fitted with atmospheric vacuum breakers.**

3.5. Laundry Use

(a) A recycled water washing machine tap must be installed in the laundry.

(b) All recycled water washing machine tap kits must have the following features:

   (i) For horizontal tap installations: recycled water washing machine tap to be installed on the right side of the cold water tap (hot, cold & then recycled water from left to right).

   (ii) For vertical tap installations: recycled water washing machine tap to be installed beneath the cold water tap (hot, cold & then recycled water from top to bottom).

   (iii) 5/8" Female threaded tap complete with purple handle and standard 3/4" outlet

   (iv) 5/8" Male lugged elbow

   (v) Cover Plate with laser etched regulatory prohibition hybrid sign complying with AS1319 stating “Recycled Water Do Not Drink”
3.6. Irrigation Systems

(a) Irrigation systems connected to recycled water must be fitted with an approved master solenoid valve to ensure that main lines up to individual sprinkler station solenoid valves are not under constant pressure. The master solenoid should be located close to the meter assembly to reduce the length of pressurized irrigation piping.

(b) An appropriate containment backflow prevention device is to be fitted and independently tested.

(c) You must ensure that recycled water runoff from the property to the stormwater is prevented.

3.7. Regulatory Prohibition Hybrid Signs

(a) A recycled water regulatory prohibition hybrid sign with the words “Recycled Water Do Not Drink” and complying with AS1319 is to be installed within 150mm of each external recycled water tap outlet, above the tap.

4. Uses of Recycled Water

4.1. Below is a summary list. For a more detailed information or clarification on Class A acceptable use please contact Yarra Valley Water.

4.2. Properties which YWW require the site occupier to be on a Recycled Water Agreement are subject to the uses approved by YWW as stated in their Recycled Water Agreement.

<table>
<thead>
<tr>
<th>USE OF CLASS A RECYCLED WATER</th>
<th>YES (√) or NO (X)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire-fighting &amp; fire protection systems (excluding sprinkler systems)</td>
<td>YES (√)</td>
</tr>
<tr>
<td>Toilet / urinal flushing (excluding bidets)</td>
<td>YES (√)</td>
</tr>
<tr>
<td>Laundry washing machines</td>
<td>YES (√)</td>
</tr>
<tr>
<td>Vehicle washing</td>
<td>YES (√)</td>
</tr>
<tr>
<td>Garden watering including vegetables</td>
<td>YES (√)</td>
</tr>
<tr>
<td>Filling water features/ornamental ponds (not for swimming)</td>
<td>YES (√)</td>
</tr>
<tr>
<td>Irrigation of public open space (e.g. parks, sports grounds)</td>
<td>YES (√)</td>
</tr>
<tr>
<td>Irrigation of pasture &amp; crops</td>
<td>YES (√)</td>
</tr>
<tr>
<td>Livestock (excluding pigs)</td>
<td>YES (√)</td>
</tr>
<tr>
<td>Cooling towers</td>
<td>YES (√)</td>
</tr>
<tr>
<td>Industrial use:</td>
<td>YES (√)</td>
</tr>
<tr>
<td>• Boiler feed water</td>
<td></td>
</tr>
<tr>
<td>• Process water</td>
<td></td>
</tr>
<tr>
<td>• Wash-down water</td>
<td></td>
</tr>
<tr>
<td>• Dust suppression</td>
<td></td>
</tr>
<tr>
<td>Fire protection sprinkler systems</td>
<td>NO (X)</td>
</tr>
<tr>
<td>Drinking (humans or pigs)</td>
<td>NO (X)</td>
</tr>
<tr>
<td>Cooking or other kitchen purposes</td>
<td>NO (X)</td>
</tr>
</tbody>
</table>
5. Plumbing Standards

5.1. All recycled water plumbing works are to be carried out in accordance with:

(a) AS/NZS 3500

(b) Water Metering & Servicing Guidelines (Water Authorities). A copy of these guidelines are available by visiting www.yv.com.au

(c) EPA Dual pipe water recycling schemes – health and environmental risk management (guidelines for environmental management)

6. Inspections For Recycled Water Plumbing Works

6.1. The plumber is required to register and book inspections via Yarra Valley Water’s online booking system (www.yv.com.au/rwinspection). Inspections are mandatory and required at the stages below:

(a) R1 – All below ground pipework prior to backfilling
   
   (i) For Houses and High Rise developments an R1 inspection must be done from the main meter to the building

   (ii) For Multi-Unit developments an R1 inspection must be done for the internal main between the main meter and the check meters. R1 inspections are then required for each unit from the check meter to each dwelling

   (iii) For larger, more complex developments multiple R1 inspections may be required to inspect all the below ground pipework in stages

   (iv) Irrigation Systems require inspection of all below ground pipework

(b) R2 – All internal pipework prior to plastering

   (i) For High-Rise developments separate R2 inspections must be booked for the common pipework on each floor servicing each dwelling

(c) R3– Commissioning prior to occupancy

   (i) The site must have passed the R1 and R2 inspections before the R3 can be done
(ii) All tap-ware and plumbing fixtures must be fitted and operational

(iii) Properties must not be occupied before passing the R3 inspection

(iv) Irrigation systems must be commissioned prior to lodgement of the Compliance Certificate

For inspection related enquiries:
Email: rwplumbinginspection@yvw.com.au
Phone: 9872 2518

6.2. The deadline for booking R1 and R2 inspections is 3pm Monday to Friday

6.3. R3 inspections require two (2) business days’ notice of the required inspection date

6.4. Inspections will take place Monday to Friday only. Inspections are not available on weekends or public holidays. Inspection times are 7.30am to 3pm.

6.5. R1 and R2 inspections can be booked consecutively for the same booking date only if they are both ready for inspection

6.6. R2 inspections can only be booked on metered properties or where a test bucket has been used to pressurise the pipework

6.7. For R3 inspections the plumber will be contacted by the next business day to confirm the inspection time

6.8. Safe access to the site must be provided for inspections to take place

6.9. Failure to book inspections will result in penalties. Refer Section 1.

6.10. A PIC Consent Number is required for every property/residence being booked for inspections. Contact Yarra Valley Water if you do not have a PIC number for every property/residence being inspected:

(a) For unit developments a Stage 1 (R1) inspection is also required from the main meter to the check meters, therefore a PIC Consent Number is also required for the main to check inspection.

6.11. Straight bridging pieces where a meter is missing are not acceptable due to the risk of backflow contamination:

(a) Properties using a straight piece will not pass these inspections.

6.12. Yarra Valley Water will only carry out the required inspections in so far as they relate to the Conditions of Connection issued for new developments connecting to recycled water.
Inspections will be carried out in accordance with the EPA Guidelines and a Risk Based Approach. Yarra Valley Water will not be certifying or approving plumbing works in terms of quality and will not be liable for any poor workmanship carried out by the plumber.

7. Temporary Cross Connections

7.1. Where pressure testing of pipework installed for the provision of Class A Recycled Water requires a temporary interconnection with the drinking water supply plumbing, such interconnection is to be above ground and clearly visible.

7.2. This interconnection is to be removed by the private plumber at the time of the commissioning inspection.

8. Tappings

8.1. The drinking water property service pipe is to be PE pipe and must be water marked.

8.2. The Class A Recycled Water property service pipe is to be solid jacketed purple PE pipe and must be water marked:

(a) PE pipe must not form any part of the water meter assembly.

8.3. In the case of short side installations the recycled water service pipe is to be laid on the left of the drinking water property service pipe (when facing the property) and maintain 300mm separation.

8.4. In the case of long side installations the same conduit for the drinking water property service may be utilised for the recycled water, however the 300mm separation is to be maintained on both the upstream and downstream ends of the conduit.

9. Locking Device

9.1. All recycled water meters will be installed with a locking device at the time of the tapping.

9.2. The locking device can only be removed by Yarra Valley Water when the property is commissioned, passing the R3 inspection:

(a) If the locking device is removed prior to commissioning, this will be considered a breach of these Conditions and Section 288 of the Act. The locking device will be re-fitted and follow up will occur under the Act.
10. Meter Assemblies & Positioning

10.1. Recycled water meters are to be positioned to the left of the drinking water meter assembly.

10.2. Recycled water meters and the meter assembly including inlet and outlet pipework must be purple.

10.3. Meters in recycled water areas can only be moved by Yarra Valley Water.

(a) An application must be made online via easyACCESS to move the meter/s.

(b) Yarra Valley Water can move meters up to 600mm from their original tapping location:

   (i) 20mm and 25mm meters are moved for free

   (ii) 32mm and above incur costs

(c) Meters which need to be moved >600mm need to be plugged and re-tapped and the relevant fees paid.

(d) Any meters which have been illegally moved are in breach of these Conditions and Section 288 of the Act. Yarra Valley Water will take the necessary action required to rectify the meters and recover any costs in doing so from the applicant or property owner as required. Rectification may include disconnection of services, relocating meters back to their original position, or if this is not possible plugging and re-tapping to a new location.

10.4. Meters which are in a public space such as a reserve or school must be protected by an appropriate cage to prevent tampering.

10.5. Meters are not permitted to be installed in pits unless prior approval has been given by Yarra Valley Water.

10.6. Any 25mm installation must be fitted with a right-angle ball valve.

10.7. Minimum separation between meters as follows:

   (a) 20mm to 25mm meters – 250mm minimum clearance between meters

   (b) 32mm and above – 150mm minimum clearance between meters

   (c) For recycled and potable meters – minimum 300mm minimum clearance between the recycled and potable meters
11. Stolen Meters

11.1. Until the meter is replaced no connections between the supply and the dwelling are to be reinstated at the property. No straight pieces or alternative connections are allowed to be installed unless fitted by Yarra Valley Water’s maintenance contractor.

11.2. Stolen meters must be reported by calling Yarra Valley Water on 1300 304 688.

12. Owner’s Responsibility

12.1. It is the owner/s (or for non-residential properties with a Recycled Water Agreement, the site occupier/s) responsibility to carry out the following:

(a) Educate children and visitors to the property about the permitted uses of Class A recycled water

(b) Remove the handle from the recycled water taps when not in use

(c) Ensure that all recycled water regulatory prohibition hybrid signs are visible and legible at all times

12.2. For Irrigation Systems:

(a) Until Class A Recycled Water is available (i.e. charged through the recycled water main), irrigation systems time of operation must comply with current Government water restriction requirements

(b) Annual testing of the backflow prevention device is required to ensure the device is operating correctly

(c) Signage must be produced at the owner’s expense and displayed prominently within 150mm of all recycled water outlets. These signs should comply with AS1319 and should contain the wording: “Recycled Water Do Not Drink”.

12.3. The conditions detailed in this document are binding on subsequent owners (or for non-residential properties with a Recycled Water Agreement, the site occupier/s where applicable) of this recycled water property.