



**Central Coast Council**  
**WSAA Water Supply Code of Australia Supplement**  
(WSA 03 2011-3.1 - SWC Edition 2014)

Planning and Delivery Unit,  
Water and Sewer Directorate

Version Control			
Version	Date	Author	Description of changes
1.0	1/08/2022	Luke Drury	New document, to reflect change to adopted version of WSAA Code and replace former GCC and WSC supplements.



WSAA Water Supply Code of Australia Supplement

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## 1 Introduction

Central Coast Council (CCC) has adopted the Water Services Association of Australia (WSAA) Water Supply Code of Australia – WSA 03-2011-3.1 (Sydney Water Edition 2014) ('the Code') for the planning, design and construction of water networks across the Central Coast area.

This Supplement is to be read in conjunction with the aforementioned Code, and the amendments and supplementary information outlined below shall be adopted when used for CCC related works.

Please note that this Supplement is a controlled document, so Central Coast Council's website should be consulted for the most current version.

## 2 Complementary Documents

The following documents complement the requirements set out above. Any deviation from the specification required must be confirmed with a CCC representative prior to commencing works.

- a. WSAA Water Supply Code of Australia – WSA 03-2011-3.1 (Sydney Water Edition 2014) (available from the Water Services Association of Australia)
- b. Sydney Water Deemed to Comply drawings
- c. Central Coast Council's Water System Planning Guideline
- d. Central Coast Council's Water Service Installation Requirements
- e. Central Coast Council Water Construction Notes (**appended to this document**)
- f. Central Coast Council's Building in Proximity to Water and Sewer Pipelines Procedure
- g. Central Coast Council Work as Executed CAD Drawing Standard Requirements
- h. Central Coast Council Water Main Disinfection and Commissioning Process
- i. Sydney Water Corporation's D0001668 Guide to Water Quality for Water Main Construction (2020)
- j. Sydney Water Corporation's D0001669 Disinfection & Dechlorination of Water Mains (2021).

**Note:** Central Coast Council owned specifications take precedence over all other specifications and drawings.

## 3 Supplement

Proposed amendments to the Code (and other supplementary information) to be adopted for CCC related works are outlined in the sections below, with clause / section numbers provided for ease of reference.

### 3.1 General

The following general notes apply across multiple / all sections of the adopted Code and should be adopted wherever relevant when referencing the Code.

Clause / Section	Amendment / supplementary information
All	<u>Replace all references to 'Sydney Water', 'SWC', 'the Superintendent' or 'the Water Agency' with "Central Coast Council".</u>
All	Compliance with this Supplement (and any underlying Codes or Standard Drawings) does not remove responsibility from the proponent for any required environmental approvals or licences.

All	<u>Delete all references to 'Sydney Water's Water System Planning Guideline' and insert "Central Coast Council's 'Water System Planning Guideline'".</u>
All	This Supplement is intended to read in conjunction with the Water Services Association of Australia (WSAA) Water Supply Code of Australia – WSA 03-2011-3.1 (Sydney Water Edition 2014). Where inconsistencies are identified, clarification shall be sought from Central Coast Council, with the Supplement generally taking precedence.
All	Disinfection procedures are to comply with Central Coast Council's 'Water Main Disinfection and Commissioning Process', which can be obtained upon request from the CCC Water Assessment Team.
All	Where there is conflict between the DTC Drawings and the WSAA Standard Drawings, the WSAA Standard Drawings (when considered in conjunction with this Supplement) takes precedence.

### 3.2 Introduction

Clause / Section	Amendment / supplementary information
Scope of Code	<u>Insert the following paragraph at the end of this Clause:</u> <i>"Central Coast Council will as of 26<sup>th</sup> September 2022, adopt the WSAA Water Supply Code of Australia (WSA 03-2011-2.1 - SWC Edition 2014) as the reference manual for the planning, design and construction of water supply assets within the Central Coast local government area."</i>
Code Purpose	<u>Replace the sixth paragraph with the following:</u> <i>"Any reference to the Water Supply Code of Australia ("the Code") shall be deemed to refer to the version of the Sydney Water Edition of the Code as described in the latest version of the Central Coast Council Supplement. The Code specifies mandatory requirements for the design and construction of water assets that are to become the responsibility of Central Coast Council"</i> <u>Insert the following at the end of this Clause:</u> <b><i>"Purpose of Supplement</i></b> <i>The purpose of the CCC Supplement is to provide information specific to Central Coast Council's area of operation, in particular design and construction standards and procedures.</i> <i>CCC reserves the right to change or amend the Code or Supplement without notice.</i> <b><i>Approval Authority</i></b> <i>All water and sewerage works proposed within the Central Coast local government area that are covered by the Codes, will require approval by Council's Water Assessment Team."</i>

### 3.3 Part 0: Glossary of Terms, Abbreviations and references

Clause / Section	Amendment / supplementary information
Glossary of Terms	<u>Insert the following abbreviation:</u> <i>"CCC Central Coast Council"</i>

### 3.4 Part 1: Planning and Design

Clause / Section	Amendment / supplementary information
1.2.1 Objectives	<p><u>Replace the contents of this Clause with the following:</u></p> <p><i>“The overall objective of system planning and design is to provide a water supply service system that meets Central Coast Council's obligations under relevant regulatory frameworks.”</i></p>
1.2.5 Detailed design	<p><u>Insert the following at the start of this clause:</u></p> <p><i>“Safety in Design shall be considered as required by the Work Health and Safety ACT.”</i></p>
2 Water System Planning Guideline	<p><u>Replace the contents of this Clause with the following:</u></p> <p><i>“Water system planning should be undertaken in accordance with Central Coast Council's ‘Water System Planning Guideline’, which can be obtained upon request from the CCC Water Assessment Team.”</i></p>
3.1.5 Fire flows	<p><u>Delete the second paragraph and insert:</u></p> <p><i>“Potable water mains should be used for firefighting supply for all systems.”</i></p>
4.4 PVC Pipeline Systems	<p>For tapping bands ≤25mm, refer to the Central Coast Council's ‘Water Service Installation Requirements’ document.</p> <p>For greenfield sites, site specific design and construction is required for individual water services &gt; 25mm. Consult the CCC Water Assessment Team for all services &gt;25mm.</p> <p>Generally, for commercial and industrial greenfield development sites, pre-tapped water services are not required as the final use is unknown.</p> <p>For sites containing existing water reticulation infrastructure, an application is to be submitted to Council for installation of a new water service. An application can be found on Council's Forms website.</p> <p><u>Delete (a), as not applicable for Central Coast Council property services.</u></p> <p><u>In (b), delete 'all new mains &gt;DN150' and insert “all new reticulation mains”.</u></p>
5.1.3 Water main renewals – electrical safety and earthing to water services	<p><u>Delete the last paragraph and replace with the following:</u></p> <p><i>“The requirements of NWPNET003 Control Electrical Risk on Metallic Pipes - Version 1.1 shall be addressed in all water main renewal projects.”</i></p>
5.2.3 Link mains	<p><u>Insert the following at the start of this clause:</u></p> <p><i>“Scenarios shown in Figure 5.1 are Central Coast Council's preferred methods for cul-de-sacs. Central Coast Council will accept the ‘looped main’ option only as described in Clause 5.2.2, and with a water main no smaller than DN100.</i></p> <p><i>Central Coast Council will consider allowing the main to be looped in on itself only in exceptional circumstances, where adequate justification has been provided. This option would require a hydrant and at least 7 service connections on the looped portion of the main to be considered.”</i></p> <p>Drawing WAT1104-V is not to be used in relation to this clause.</p>

5.4.2.1 General	<p><u>Insert the following at the start of this clause:</u></p> <p><i>“Central Coast Council require all valves, hydrants, bends, tees and all other fittings shall be located outside of the carriageway. If this is not achievable, consult with Council’s Water Assessment Team.”</i></p>
5.4.2.2 Location in footway	<p>Any references to the ‘Guide to Codes and Practices for Streets Opening’ refers to the latest version (published in 2018) at the time of writing for this supplement.</p> <p>The use of any alternative version should be confirmed with Central Coast Council prior to adoption.</p>
5.4.2.4 Location in roundabouts and bus bays	<p><u>Insert the following at the start of this clause:</u></p> <p><i>“Where possible, it is preferred that water mains be laid within the water allocation around a roundabout intersection. Where this is not feasible, consideration will be given to laying the pipe in a straight line through the roundabout intersection, provided there were no valves, hydrants, fittings, or bends to be located within the roadway.”</i></p>
5.4.13 Water mains in conjunction with landscaping and/or other development	<p>The supplement note against Clause 8 (see below) applies to this clause also.</p>
5.4.16 Marking tape	<p><u>Insert the following at the start of this clause:</u></p> <p><i>“Detectable marking tape is to be used at all times (where possible) unless otherwise specified by Central Coast Council.”</i></p>
5.4.16.3 Property services	<p><u>Insert the following at the start of this clause:</u></p> <p><i>“Property services to be installed as per Central Coast Council’s ‘Water Service Installation Requirements’.”</i></p>
5.9 Connection of New Mains to Existing Mains	<p><u>Insert the following at the start of this clause:</u></p> <p><i>“Where AC pipe material is encountered, a full length of existing pipe from spigot to spigot is to be removed as part of the new water main tee connection.”</i></p>
5.10.4 Flushing points	<p>Figure 5.6 is not to be used, refer to WAT-1104-V for information relating to this clause.</p>
5.11.1 General	<p><u>Insert the following at the start of this clause:</u></p> <p><i>“Property services to be installed as per Central Coast Council’s ‘Water Service Installation Requirements’ and ‘NWPNET003 Control Electrical Risk on Metallic Pipes - Version 1.1’.”</i></p>
5.11.2 Connections to water mains	<p><u>Insert the following at the start of this clause:</u></p> <p>“For greenfield development, Central Coast Council does not permit split services, unless it is demonstrated that a single service is not feasible. Refer to Central Coast Council’s ‘Water Service Installation Requirements’.</p> <p>Where new services are required on existing water reticulation infrastructure, split services may be used subject to the type of development and consultation with Council’s Water Assessment team. Hydraulic services</p>



design is required prior to making an application to Council to confirm the size of service required.”

5.12.4  
 Clearance from  
 structures and  
 property  
 boundaries

Insert the following at the start of this clause:

*“For specific requirements refer to Central Coast Council’s ‘Building in Proximity to Water and Sewer Pipelines Procedure’ (August 2020).”*

5.13  
 Disused or  
 Redundant  
 Pipelines

Insert the following at the start of this clause:

*“If the redundant pipe is located in private property (regardless of the existence of easements) then full removal of the pipe and associated fittings is required following the decommissioning of the asset. The asset should be shown as removed on the Work as Executed (WAE) plan and removed from Council’s GIS system.*

*If the redundant pipe is subject to in situ replacement (replacement on the same horizontal alignment), or other services are proposed to be installed in close proximity to the main (triggering its relocation) then full removal of the pipe and associated fittings is required following the decommissioning of the asset.*

*If the redundant pipe is located in the public road reserve, but outside of a road pavement, then the pipe is to be grout filled and marked as disused AC pipe on both the WAE and Council’s GIS system.*

*If the redundant pipe is located under a road pavement (existing or proposed), then the pipe (and associated fittings) will either be removed or left in place and grout filled based on the requirements of the road pavement design. The pavement designer may require the removal of the pipe if it occupies a select pavement zone/subgrade area, otherwise the pavement designer may elect to leave the main in place following grout filling.*

*No pipe cracking/bursting of AC mains is to be undertaken due to the effect of breaking the pipe into smaller pieces.”*

6.2.9.4  
 Fire flow  
 operation

Delete everything in this clause after ‘abnormal demand conditions’.

7.4.4  
 Pipe embedment

Insert the following at the start of this clause:

*“Central Coast Council will not accept any ash or recycled glass product (including WSA PS-369 and WSA PS-368) for use as embedment material.”*

7.6.1  
 General

Refer to the supplement note for WAT-1201 (see below).

8  
 Appurtenances

Insert the following at the start of this clause:

*“The design shall locate surface fittings to avoid future clashes with vehicular access crossings and other relevant infrastructure required for development. This needs to consider other services being installed as part of the broader development. If fittings are to be located within the road pavement, due consideration of wheel tracks and loading is required within the design.”*

8.9.1 General	<p><u>Insert the following at the start of this clause:</u></p> <p><i>“Disinfection procedures are to comply with Central Coast Council’s ‘Water Main Disinfection and Commissioning Process’, which can be obtained upon request from the CCC Water Assessment Team.</i></p> <p><i>Where Ozonation is proposed for disinfection, the process and critical control points outlined in Sydney Water Corporation’s ‘D0001668 Guide to Water Quality for Water Main Construction’ (2020) and ‘D0001669 Disinfection &amp; Dechlorination of Water Mains’ (2021) shall be adopted (unless otherwise instructed by Central Coast Council).”</i></p>
9.4 Recording of Work As Constructed Information	<p><u>Insert the following at the start of this clause:</u></p> <p><i>“Work as constructed information is to be produced prior to Construction Acceptance, as per Work as Executed CAD Drawing Standard Requirements’.</i></p> <p><i>For Water mains construction, a draft work as executed plan must be submitted prior to water main commissioning (i.e. pressure testing and disinfection of mains).”</i></p>

### 3.5 Part 2: Construction

Clause / Section	Amendment / supplementary information
11.6 Operation of Water Supply Network	<p><u>Insert the following at the start of this clause:</u></p> <p><i>“Central Coast Council’s live water supply network is to be operated only by CCC Network Operations staff.</i></p> <p><i>Any requests for operation / isolation of the existing network should be lodged, with a minimum of 4 weeks’ notice via email to <a href="mailto:waterandsewerworks@centralcoast.nsw.gov.au">waterandsewerworks@centralcoast.nsw.gov.au</a>, addressed to Central Coast Council’s Water Assessment Development Engineer.”</i></p>
12.1.1 General	<p><u>Insert the following at the start of this clause:</u></p> <p><i>“A materials list is required to be submitted to Central Coast Council’s Water and Sewer Development Engineer for review and acceptance. All materials are subject to inspection on site and may be rejected for use if there are concerns about quality or suitability.”</i></p>
13.13 Trenchless Excavation	<p><u>Insert the following at the start of this clause:</u></p> <p><i>“Tunnelling designs are to be submitted to Central Coast Council’s Water Assessment Team for approval prior to undertaking the works.”</i></p>
15.8 Tapping of Mains, Property Services and Water Meters	<p><u>Insert the following at the start of this clause:</u></p> <p><i>“Installation of new services / meters is typically undertaken by Central Coast Council. The relevant water service application is to be submitted to <a href="mailto:ask@centralcoast.nsw.gov.au">ask@centralcoast.nsw.gov.au</a>, with adequate notice allowed for processing.”</i></p>
15.12.1 Non-detectable marking tape	<p><u>Insert the following at the start of this clause:</u></p> <p><i>“Detectable marking tape is to be used at all times (where possible) unless otherwise specified by Central Coast Council.”</i></p>
19.1 General	<p><u>Insert the following at the start of this clause:</u></p> <p><i>“Hydrostatic and CCTV testing are to be undertaken by a NATA accredited contractor.”</i></p>

20.2 Flushing of Disinfection Water	<u>Insert the following at the end of this clause:</u> <i>“Water used for disinfection purposes is to be discharged as per the guidance in Central Coast Council’s ‘Water Main Disinfection and Commissioning Process’.”</i>
22.1 General	<u>Insert the following at the start of this clause:</u> <i>“Connection of new water reticulation mains to existing Central Coast Council reticulation mains shall be carried out by the Developer’s Contractor under inspection by Central Coast Council’s Water &amp; Sewerage Field Inspector.</i>  <i>Central Coast Council’s live water supply network is to be operated only by CCC Network Operations staff.</i>  <i>Any requests for operation / isolation of the existing network should be lodged, with a minimum of 4 weeks’ notice via email to <a href="mailto:waterandsewerworks@centralcoast.nsw.gov.au">waterandsewerworks@centralcoast.nsw.gov.au</a>, addressed to Central Coast Council’s Water Assessment Development Engineer.”</i>

### 3.6 Part 3: Standard Drawings

Clause / Section	Amendment / supplementary information
SW 25.1 General	<u>Insert the following at the start of this clause:</u> <i>“Specifications outlined in the Code and this supplement override any design drawing approvals.”</i>  <u>Insert the following at the start of this clause:</u> <i>“Property services to be installed as per Central Coast Council’s ‘Water Service Installation Requirements’ and ‘NWPNET003 Control Electrical Risk on Metallic Pipes - Version 1.1’.”</i>
SW 27.4 WAT-1108-V – Property Services – Connection to Main	Central Coast Council do not use ball valves for property service connections. Only vertically installed maintaps are to be used.
Drawing WAT-1109	A copy of this drawing has been retained in Central Coast Council’s Standard Drawings.  Service isolation valve at base of meter riser only required where there is no path box available to access the main cock.
SW 27.6 WAT-1151-S and WAT-1152-S – Design Layouts – Utility Services – Space Allocations in Footways	Refer to the Guide to Codes and Practices for Streets Opening (published 2018) for standard alignments that apply within the Central Coast area.

SW 28.2 WAT-1201 – Embedment and Trench Fill Typical Arrangement	Replace 'MINIMUM PIPE COVER' table with the following:																				
	<table border="1"> <thead> <tr> <th>LOCATION</th> <th>ABSOLUTE MINIMUM COVER (mm)</th> <th>CCC PREFERRED MINIMUM COVER (mm)</th> </tr> </thead> <tbody> <tr> <td>NON ROADWAYS</td> <td></td> <td></td> </tr> <tr> <td>- GENERAL</td> <td>450</td> <td>600</td> </tr> <tr> <td>- INDUSTRIAL / COMMERCIAL</td> <td>600</td> <td>750</td> </tr> <tr> <td>SEALED ROADS</td> <td>600</td> <td>750</td> </tr> <tr> <td>MAJOR ROADWAYS / EMBANKMENTS</td> <td>750</td> <td rowspan="2">REFER TO TfNSW REQUIREMENTS</td> </tr> <tr> <td>FREEWAYS</td> <td>1200</td> </tr> </tbody> </table>	LOCATION	ABSOLUTE MINIMUM COVER (mm)	CCC PREFERRED MINIMUM COVER (mm)	NON ROADWAYS			- GENERAL	450	600	- INDUSTRIAL / COMMERCIAL	600	750	SEALED ROADS	600	750	MAJOR ROADWAYS / EMBANKMENTS	750	REFER TO TfNSW REQUIREMENTS	FREEWAYS	1200
LOCATION	ABSOLUTE MINIMUM COVER (mm)	CCC PREFERRED MINIMUM COVER (mm)																			
NON ROADWAYS																					
- GENERAL	450	600																			
- INDUSTRIAL / COMMERCIAL	600	750																			
SEALED ROADS	600	750																			
MAJOR ROADWAYS / EMBANKMENTS	750	REFER TO TfNSW REQUIREMENTS																			
FREEWAYS	1200																				
	Absolute minimum cover will only be considered if there are existing site constraints prohibiting construction of the water main at the preferred minimum cover depth.																				

SW 28.8 WAT-1207-V – Thrust and Anchor Blocks – Gate Valves and Vertical Bends	Central Coast Council will also consider straps that are designed for the valve product in use.
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SW 28.13 WAT-1250-S AND WAT-1251- S – Standard Trench Details	Central Coast Council will not accept any ash or recycled glass product (including WSA PS-369 and WSA PS-368) for use as embedment material.
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SW 29.3 WAT-1303-V, WAT-1304-V, WAT-1305-V AND WAT-1306- V – Typical Surface Fitting Installation	Some existing surface valve boxes in the CCC region are in white colour, however, these are no longer accepted.  Surface valve boxes are to be of yellow colour only.
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**3.7 Appendices**

Clause / Section	Amendment / supplementary information
Appendix H – hydrant spacings Table H,1	<u>Replace the reference to 'Gosford City Council', in this table with "Central Coast Council".</u>

## Appendix 1: Central Coast Council Water Construction Notes

### Water Reticulation and Water Services Construction

1. Construction of water reticulation mains and water services shall be in accordance with the Sydney Water Edition 2014 of the "Water Supply Code of Australia" WSA03-2011 (Version 3.1) with Central Coast Council Supplements. These notes specify Central Coast Council's particular requirements in these documents in relation to the construction of water reticulation mains and residential property services. Central Coast Council Supplements can be found on Council's Water and Sewer Development website.
2. Connection of new water reticulation mains to existing Council reticulation mains shall be carried out by the Developer's contractor under Council inspection unless specified otherwise. The contractor is to liaise with Council's Water and Sewer Development Engineer with minimum 4 weeks notification to organise a Council shutdown of the existing water reticulation main. Fees may apply for costs incurred due to shutdowns.
3. The Developer's contractor shall be responsible for the care and maintenance of all existing utilities and services, to the satisfaction of the relevant Authority or owner. This may include arranging or performing relocation, temporary diversion or support of the service. All cost incurred by the Developer's contractor in verifying the location of utilities and services, providing for their care and maintenance shall be borne by the contractor.
4. Water services on new mains are to be installed by the Developer's Contractor. A single water service, each tapped from the main, generally where shown on the design drawings is to be provided for each proposed lot. The contractor is to follow the guidelines set out in Council's Water Service Installation Requirements document with reference to standard drawings WAT-1106 and WAT-1108.
5. Trench details for installation of new water mains in other than poor ground conditions or under existing road carriageways shall be in accordance with standard drawings WAT-1250-s and WAT-1251-S. Embedment materials shall be in accordance with WSA-03 Clause 16.2 Embedment Materials and Council's WSAA Water Supply Code of Australia Supplement.
6. Thrust blocks shall be provided at all tees, bends, and tapers generally in accordance with standard drawing WAT-1205 for pipe sizes up to DN 375. Thrust blocks dimensions in stable ground are to satisfy the requirements for stiff clay/medium dense clean sand unless in sound rock in which case sizing appropriate to sound rock may be used. Details for thrust blocks shall be provided by the design consultant in ground conditions that do not provide the bearing equivalent to stiff clay/medium dense clean sand. Concrete to be pre mixed to required slump, 80mm-120mm, before placement in thrust block formwork. 'Bagged' concrete put in place and watered in is unacceptable.
7. Thrust and anchor blocks for valves and vertical bend shall be provided in accordance with standard drawing WAT-1207 for pipe sizes up to DN 375. Details for thrust blocks shall be provided by the design consultant where ground conditions do not provide the bearing equivalent to stiff clay/medium dense clean sand.
8. Hydrants and valves shall be located where shown on the drawings and shall be installed in accordance with standard drawings WAT-1300 series.. Stop valves shall be anti-clockwise closing. Hydrants shall be spring hydrants. Maximum distance between hydrants is 60 metres in residential areas and 120 metres in rural areas.
9. Only flushing bend hydrants are to be used to terminate a water main.
10. A water service conduit terminating at the road boundary with a riser for a meter connection, shall be extended by the developer the full length of the battle-axe or easement

for services to the body of the proposed lot. All work to be carried out by a licensed plumber in accordance with NSW Code of Practice and AS 3500 and inspected by Council's Plumbing and Drainage team. All pipework and fittings shall be appropriately marked with material specifications.

11. Carry out field compaction testing in accordance with WSA-03, Clause 19.3 Compaction Testing. Submit copy of test documentation to council as part of acceptance testing.
12. Surface restoration and pavement restoration shall be in accordance with the requirements of Central Coast Council's Civil Works Specification.
13. Acceptance testing of water mains, water services and temporary water mains for the provision of water supply shall be arranged by the Contractor. Acceptance testing shall be in accordance with WSA-02 Part 3 Section 19 and 20 and include:
  - a. Hydrostatic pressure testing - Test pressure to be 1000kPa unless shown otherwise on the design drawings and comply with NATA standards for hydrostatic pressure testing. A NATA Certified contractor is required to carry out this work.
  - b. Bacteriological Test - All new water mains and temporary water mains are to satisfy Council standards for disinfection and bacteriological testing. Satisfactory results are required before connection to Council assets is permitted. Water services are to be purged, capped and the main cocks left open for hydrostatic testing. Follow the guidelines set out in Council's Water Main Chlorination and Commissioning Process document.
14. Work as Executed (WAE) drawings shall be prepared using the Council approved design drawings and in accordance with Central Coast Council's Work as Executed guidelines. Submitted plans must be in AutoCAD digital format and PDF (no red pen markups). In addition to providing WAE level information, location and junction information shall be provided. WAE plans to be submitted to [waterandsewerworks@centralcoast.nsw.gov.au](mailto:waterandsewerworks@centralcoast.nsw.gov.au) maximum one month post construction for review.
15. Evidence of the Contractor's experience and references from other Water Agency type organisations shall be provided to Central Coast Council prior to a Contractor being accepted by Central Coast Council as being suitable to construct the required sewerage works. All Contractors shall carry appropriate levels of Public Liability Insurance.
16. Requirements for trench stops and bulkheads shall be as specified on the design drawings and in accordance with standard drawings WAT-1209 and WAT-1210. For pipes up to DN300 with excavations greater than 1.5m in height, trench stop and bulkhead can cease at height of first benching. Bulkheads adjacent to kerb and gutter and at the shoulders of sealed roads as shown on standard drawing WAT-1209 may be replaced with trench stops where the pipe grade is less than 15 percent.
17. Pipe fittings are to be ductile iron unless shown otherwise on the design drawings. Pipes to be used in mine subsidence areas shall be certified by the pipe supplier to be suitable for the predicted ground strains as advised by the Mine Subsidence Board.
18. Install kerb markings and posts for all valves and hydrants. Refer to standard drawing WAT-1352-S. Marker posts to be type "A". Post embedment to be 450mm into the ground with a 10mm diameter anti-turn key, 300mm long approximately 100mm from the lower end of the post. Post material to be solid plastic or hardwood generally 100mm x 50mm in section. Posts to be white in colour with lettering in Homebush Red. Lettering may be moulded or machined into the post face. Posts shall be located 150mm off the property boundary. The distance to and size of the main are to be clearly stencilled on the post in 25mm high text using blue exterior enamel. Reflective pavement markers are not required.

19. Clarification of construction requirements should be obtained from Council's Water and Sewer Development Engineer where requirements are not clear on the approved design drawings, these notes and/or the Sydney Water Version of WSA-02 and/or Central Coast Council Supplement to the WSA Code document.

**EROSION AND SEDIMENT CONTROL NOTES**

1. Disturbed areas to be kept to a minimum.
2. Control clean water from above the site, through the site or around the site.
3. Keep clean water separate from dirty water.
4. Conserve all topsoil, stockpile and protect for re-use on site.
5. Protect all disturbed areas from erosion.
6. Minimise sedimentation.
7. Maintain all erosion and sediment control measures until complete rehabilitation is achieved.
8. Erosion/Sediment Control measures to conform with Erosion and Sediment Control Plan for Subdivision works.
9. WARNING

Unless notified to the contrary in writing, the applicant shall be held responsible for any breaches of the Protection of Environment Operations Act 1997. Please note: Failure to implement or maintain appropriate erosion/sediment control measures is a breach of the Act. Such a breach is liable for a on-the-spot fine and/or penalty.

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## **Appendix 2: Water and Sewer Servicing Requirements for Community Title Development**

### **OBJECTIVES**

To provide appropriate water and sewer servicing for community title developments and to protect the Authorities' interests.

### **REQUIREMENTS**

The developer is required to carry out all works necessary to service community title developments in addition to payment of Water and Sewer Development Charges of the relevant Development Servicing Plan.

The developer shall provide details of the development for Council's evaluation of the provision of water and sewerage. Council will determine whether the development is to be classed as Category 1 or 2. The basis and requirements of each category are:

#### **Category 1(a) – Council Water and Sewer Mains (including Sewerage Pumping Station)**

Where a main will be part of future extensions to other properties external to the development, then Council shall, in principle, own the assets to ensure continuity of supply/service to all customers. Therefore water and sewer mains should be constructed in accordance with Council's specification and standards.

#### **Easements**

Easements are to be created over the water/sewer mains with appropriate access rights for Council registered in the Community Development Management Statement.

A further requirement for water mains only is that the main must be constructed in community property or commonly administered private property or dedicated roadway with twenty-four (24) hour vehicular access along the easement.

#### **Rating**

Each property is to have a Council water meter and is subject to Council water and sewer charges in line with the prevailing IPART Determination.

#### **Fire Hydrants**

Fire hydrants must be provided to Council's standards.

#### **Category 1(b) - Public Road within Residential Subdivision**

Where a main will not be part of a future extension but constructed within a dedicated public road, and full access to the development will be available to Council, Council shall, in principle, own the assets to ensure continuity of supply/service to all customers. Therefore, water and sewer mains should be constructed in accordance with Council's specifications and standards.

#### **Easements**

Easements are to be created over the water/sewer mains with appropriate access rights for Council registered in the Community Development Management Statement.



A further requirement for water mains only is that the main must be constructed in community property or commonly administered private property or dedicated roadway with twenty-four (24) hour vehicular access along the easement.

### **Rating**

Each property is to have a Council water meter and is subject to Council water and sewer charges in line with the prevailing IPART Determination.

### **Fire Hydrants**

Fire hydrants must be provided to Council's standards.

### **Category 2 – Private Water and Sewer Conduits (including Sewerage Pumping Station)**

Where a main will not form part of future extensions, all water and sewer mains servicing individual lots within the development shall be private mains. Therefore the water and sewer conduits should be constructed in accordance with the appropriate Plumbing Code. The water service and sewerage connection will be provided at the property boundary.

### **Easements**

Appropriate easements are to be created over internal water/sewer conduits with appropriate access rights for the Community Association in the Community Development Management Statement.

The following wording is to be inserted in the Community Development Management Statement:-

*Water reticulation for domestic and fire fighting purposes for the community development are by services provided and maintained by the original proprietor of the Community Association.*

This provision of the preceding paragraph is not to be amended, varied or revoked without the express consent of Central Coast Council.”

### **Rating**

The development will be serviced by one “bulk” meter at the property boundary. Council will levy water and sewer charges in line with the prevailing IPART Determination. Additional Council metering may be provided in line with CCC Metering Guidelines or private sub-metering may also be provided to allow for more equitable billing arrangements.

### **Fire Hydrants**

The developer is to satisfy any building code or State Fire Agency requirements for fire fighting services.