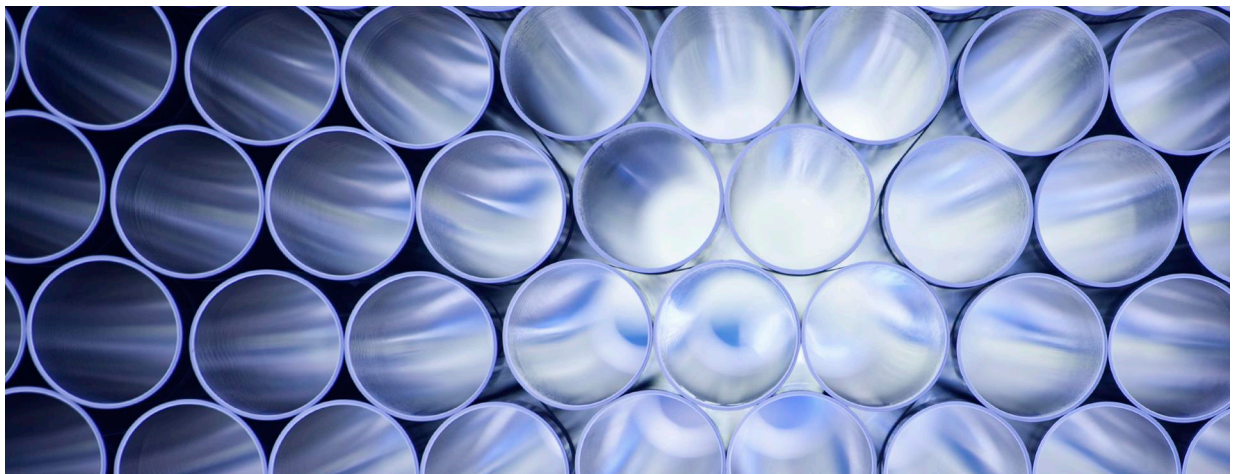


# **SEQ Water Supply and Sewerage Design & Construction Code (SEQ WS&S D&C Code)**

## **SEWERAGE CODE SCHEDULE OF AMENDMENTS**

**Amendment No. 4 – September 2021**



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## Schedule of Amendments to Sewerage Code

### (Changes from July 2019 Version 2.0 to September 2021 Version 2.1)

SEQ Sewerage Code			
Section	Clause	Change	
Whole Document	All	Corrections to formatting, spelling, grammar, and linkages have been made throughout the document to improve readability.	
General	Introduction	Updated Scope of Code to: "The scope of the SEQ Code Edition is restricted to sewers up to and including DN 300 for SEQ SPs" Added new section "Safe design of Structures" Updated website links to state Safework and WorkSafe Websites Removed 1st Paragraph from Appendices section "Appendices are located on the WSAA website and are linked to this Code. Appendices may be updated from time to time without change to the version numbering of this Code."	
PART 0 - GLOSSARY	I	Added "Designated Bushfire prone area: area that is subject to, or likely to be subject to, bushfire attack (Source - AS 3959:2018: Construction of buildings in bushfire-prone areas)"	
	II	Added:	
		ABBREVIATION	INTERPRETATION
		AEP	annual exceedance probability
PART 1 - PLANNING AND DESIGN	1.2.2	Changed third paragraph from "System design and drawings shall set out essential inputs to be used in design, such as catchment area, flows, containment standard, annual exceedance probability (AEP)." to "System design and drawings shall set out essential inputs to be used in design, such as catchment area, flow, containment standard, annual exceedance probability (AEP) [environmental sensitivity factor], sizing, upstream controls, recommended sewer layout and particular requirements of the Water Agency."	
	2.4.4	Removed paragraphs which made mention to "AdaptWater"	
	2.5.1	Amended text to reference the 'ARC Sewer Corrosion and Odour Research (SCORE) Linkage Project (LP0882016)'	
	Table 4.2	Updated the Table note to "AS/NZS 2280 requires all DI fittings are coated and lined with a thermal bonded polymeric coating in accordance with AS/NZS 4158."	
	4.5.1	Product specifications titles for; "WSA PS-200, PS-201, PS-244 and PS-320" have been update to align with current WSAA titles.	
	4.5.2	Removed "and fittings" from the first sentence.	
	4.5.3	Updated Table 4.2 note to "AS/NZS 2280 requires all DI fittings are coated and lined with a thermal bonded polymeric coating in accordance with AS/NZS 4158."	
	4.5.5	New Clause "Screw-on flanges for DI pipes"	
	4.5.6	New Clause "Flanged joints"	
	4.5.7	New Clause "Coatings"	
	4.6.1	Removed "Gravity" from the title of WSA PS-321 Added Product Specification "WSA PS-280 Reflux Valves - Sewerage"	
	4.7.1	Removed "Gravity" from product specification titles for; WSA PS-322, WSA PS-338, WSA PS-339 and added "Non-Pressure" to title of WSA PS 339.	
	4.8.1	Removed "Gravity" from the title of; WSA PS-337, WSA PS-340, WSA PS 341 and added "Non-Pressure" to the the title of WSA PS 340.	

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SEQ Sewerage Code		
Section	Clause	Change
	4.12.5	Amended clause to reference AS/NZS 4087 and WSA 109. Removed "or tongue and groove (TG or spigot and recess (SR))" Removed "or laminated ply"
	4.13.1	Updated Product Specification titles to include new specifications and align with WSA titles.
	4.13.2	Updated 3rd Paragraph to include "Spherical" and change "4m" to "6m". Updated 4 <sup>th</sup> paragraph to change "moulded spherical" to "spherical" and changed "4m" to "6m".
	4.14.1	Added "WSA PS-343 Tracer Wire, Detectable"
	4.15.1	Replaced product specifications with the following: "WSA PS-290 Ductile Iron Access Covers and Frames for Water Supply and Sewerage to AS 3996 WSA PS-291 Ductile Iron Access Covers and Frames for Water Supply and Sewerage to EN 124-2 WSA PS-292 Polymeric Access Covers and Frames for Water Supply and Sewerage to AS 2996"
	4.15.3	Updated text to make reference to "Ductile cast Iron" and updated standard references to current versions.
	4.15.4	Updated Clause to make reference to new title "Polymeric". Text has been replaced to provide clarity around this change.
	4.15.5	Deleted text and replaced with "Not Used"
	5.3.8.1	Updated text to include; 'which shall only be installed in locations' and 'Long radius bends on property connection sewers are not accepted' Changed First Paragraph informative text to normative.
	Table 5.2	Updated Col 1 Sewer Size from "≤750" to "<600".
	5.4.2	Added "The minimum horizontal clearance between a sewer maintenance structure and any other maintenance structure shall be 600mm."
	Table 5.4	Updated Table to include clearance requirements for "QBWSA" and include "SEQ-SP" where required to provide clarity. New Notes 8 through to 12 added.
	5.4.5.1	Updated last sentence from "Where a sewer crosses existing or proposed services, the services shall be supported to prevent damage to infrastructure" to "Sewers crossing services/infrastructure shall be suitably designed and constructed to prevent damage to both the sewer and the services/infrastructure being crossed throughout the life of all assets. Bridging structures or other support may be required in some instances."
	5.5.7	Removed "for self-cleansing" from title and removed reference to "self-cleansing" from clause
	5.5.7.2	Deleted first paragraph and replaced with "to satisfy minimum grade requirements as specified in Table 10, Item D8 of the SEQ Design Criteria."
	5.5.8	Added Added note at the bottom of clause referencing the SCORE project.
	5.6.5.2	In first paragraph changed "1.2 m" to "900 mm"
	5.6.6.5	Added "For RCC" to the start of the first two dot points
	5.6.7	Added 'are: For NuSewers - at Terminal Entry Points as shown on Standard Drawing SEQ-SEW-1315-1; and'
	6.2	Updated text from "Property connections for commercial and industrial developments shall not be directly connected to sewers, but shall be connected into a maintenance structure." to "For CoGC Property connections for commercial and industrial developments shall not be directly connected to sewers, but shall be connected into a maintenance structure. Commercial and industrial properties may require private on-lot maintenance structures for trade waste quality and volume monitoring purposes. Consult with relevant SEQ-SP's Trade Waste Department for requirements."
	6.5.1	Deleted last paragraph due to inclusion in Cl 6.8. Text removed "Where a concrete slab is to be constructed over a sewer connection point, a 1 m square removable section with suitable lifting lugs shall be provided centrally over the

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SEQ Sewerage Code		
Section	Clause	Change
		connection, or as required under the "Building Over Assets" policy of the SEQ-SP."
	6.5.2	Text Changed from "Where not specified otherwise by the SEQ-SP, property connection points shall be located:" to "The location of property connection points on undeveloped lots shall be as shown in the Standard Drawings. Where this cannot be achieved, the connection point may be:"
	6.8	New Clause: "LOCATION OF SEWER CONNECTION POINTS"
	7.6.1	Added Paragraph at the end of clause: 'For MHs other than Sulphide Control MHs depth shall be taken as the distance from the top of the MH access cover/frame to the invert level of the MH outlet. For Sulphide Control MHs as detailed in Standard Drawing SEQ-SEW-1307-2, the MH depth shall be taken as the distance from the top of the MH access cover/frame to the floor of the MH.'
	7.6.2	Amended Point (ii) from "collection" to "Inlet"
	7.6.3	Deleted "Reference to GRP, PP or PE MHs from sentence"
	7.7.2	Added: "MS/MC depth shall be taken as the distance from the top of the MS/MC access cover/frame to the invert level of the MS/MC outlet."
	7.9.1	Added to paragraph ten; "In designated bush fire prone areas polymeric access covers or frames shall not be used."
	Table 7.5	Significant updates to table 7.5 to improve readability for users; Removed reference to Groups, updated Class of covers. Consolidated Columns "new sub-divisions, Existing built-up areas, Undeveloped areas" into a single column. Consolidated columns "100-225, 300-600 and ≥675" into a single column. Updated Table notes as required to meet new table design.
	9.3.3	Added additional paragraph at the bottom of section 9.3.3: "The Designer shall consider the size, number, level and alignment of all pipes entering the maintenance structure when determining the size of the maintenance structure. The minimum size of maintenance structures shall be in accordance with the relevant Standard Drawings. Where the size of the maintenance structure is proposed to be larger than the relevant Standard Drawings, the Designer shall consult with and obtain prior approval from the SEQ-SP. The minimum clearance between pipes entering a maintenance structure shall be 150mm, to assist in providing the maintenance structure wall with adequate structural strength and durability."
	9.4.6	Removed reference to "AdaptWater"
	10.2.5	Amended point (b) to include "clearances and drains, both public and private." drains.
	10.2.7	Amended point (d) to include "clearances" and "both public and private"
<b>PART 2 – PRODUCTS AND MATERIALS</b>	16.9	Updated Paragraph 1 from: "Where a maintenance structure or inspection tee is not used at the end of any dead end or property connection, mark the location of each using non-detectable marking tape in accordance with Standard Drawings SEQ-SEW-1104-1, SEQ-SEW-1105-1 and Standard Drawing set SEQ-SEW-1106 as appropriate"  to "An orange PVC conduit taped securely to a hardwood stake shall be installed at the end of all property connection sewers and sewer reticulation main temporary dead ends. For RIGSS, refer to Standard Drawing SEQ-SEW-1104-1 for details. For Nussewers, refer to Standard Drawings SEQ-SEW-1106-2 to SEQ-SEW-1106-6 for details."  Added Paragraph 2: "All property connection sewers and sewer dead ends shall have detectable marking tape installed above the pipe embedment and brought to surface up the orange PVC conduit marker (where such marker is required). Refer to Clause 16.11.2 Detectable Marking Tape and Standard

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SEQ Sewerage Code		
Section	Clause	Change
		Drawing SEQ-SEW-1200-2 for further details."
	21.3.1	Updated Table 21.1 and 21.2 to include relevant AS standards. Updated Code text to remove reference to "Modified" and accept the use of "Standard" compaction tests.
	21.3.4.4	Modified paragraph one to improve readability by adding at the end of the paragraph ",where each layer of fill must not exceed 300 mm". Modified paragraph one to improve readability by adding at the end of the paragraph ",where each layer of fill must not exceed 900 mm".
	Table 21.3	Updated the values in last Column under "300"
	Table 21.6	Updated values in table 21.6
	21.11	New Clause "POLYETHYLENE PIPELINES INSTALLED USING HDD TECHNIQUES"
<b>PART 3 - CONSTRUCTION</b>		
<b>APPENDICIES</b>	C	Changed title to: "FLOW ESTIMATION FOR DEVELOPED AREAS (FOR INFORMATION ONLY - NOT USED BY SEQ-SPs. REFER TO SEQ DESIGN CRITERIA FOR SEQ-SP REQUIREMENTS)"
	C1	Changed text from "The use of this Appendix requires Water Agency approval." To "This Appendix is for information only and is not to be used by SEQ-SPs. Refer to SEQ Design Criteria for SEQ-SP requirements."
	E	Added "(FOR INFORMATION ONLY)" to the end of the title
	F	Added "(FOR INFORMATION ONLY)" to the end of the title
	H	Added "(FOR INFORMATION ONLY)" to the end of the title
	I	All Text in Appendix I has been changed to Informative instead of normative.
	I1	Text has been updated to be informative.
	I6	Updated Table References in first paragraph to remove reference to unused tables. Table references are now; "Tables I1 to I8" Updated Pipe "SN" to "SDR" for Table I.7 and I.8
	J	Appendix J has been updated to align with the WSAA National code updates

Part 4 - SEQ Sewerage Standard Drawings	
Drawing Number	Change
WITHDRAWN	The following drawings have been removed from publication; SEW-1301-6 SEW-1301-7 SEW-1301-12 SEW-1301-13
SEQ-SEW-INDEX	Updated Drawing Index
SEQ-SEW-1100-1	NOTE ADDED FOR INSPECTION TEE REQUIREMENTS
SEQ-SEW-1100-2	NOTE ADDED FOR INSPECTION TEE REQUIREMENTS
SEQ-SEW-1101-3	NOTES 8 & 9 AMENDED
SEQ-SEW-1103-3	DRAWING APPLICABLE TO CoGC
SEQ-SEW-1104-1	NOTES 3, 4 AND 9 AMENDED. MINOR CHANGES. DRAFTING IMPROVEMENT
SEQ-SEW-1104-3	NEW DRAWING

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**Part 4 - SEQ Sewerage Standard Drawings**

Drawing Number	Change
SEQ-SEW-1105-1	NOTE 2 & GUSSET THICKNESS AMENDED
SEQ-SEW-1106-1	NOTE 5 AMENDED
SEQ-SEW-1106-2	NOTE 6, PLAN - TYPE A1 & PLAN - TYPE A2 AMENDED; NOTE 8 ADDED.
SEQ-SEW-1106-3	AMENDED PE/PVC ADAPTOR AND PVC SOCKET WITH CAP DETAIL
SEQ-SEW-1106-5	NOTE 4 ADDED
SEQ-SEW-1106-6	PLAN AMENDED
SEQ-SEW-1106-8	NEW DRAWING
SEQ-SEW-1200-2	AMENDED LOCATIONS IN PIPE COVER TABLE
SEQ-SEW-1201-1	AMENDED NOTE 7B
SEQ-SEW-1301-1	UPDATED TABLE, COPING DETAILS AND NOTE 8.
SEQ-SEW-1301-2	NOTE 4 AMENDED & NOTE 7 ADDED
SEQ-SEW-1301-3	AMENDED VERTICAL DISTANCE BETWEEN COVER AND TOP RUNG
SEQ-SEW-1301-8	INTERNAL DROP AMENDED & NOTE 8 ADDED
SEQ-SEW-1301-9	AMENDED VERTICAL DISTANCE BETWEEN COVER AND TOP RUNG
SEQ-SEW-1302-1	ADDED NOTE 9 AND MADE DRAWING APPLICABLE TO URBAN UTILITIES
SEQ-SEW-1303-1	NOTE 11 AMENDED & NOTE 12, 13 ADDED
SEQ-SEW-1303-2	NOTE 6 ADDED
SEQ-SEW-1307-1	NEW NOTE 10. ADDED BOXED NOTE. OTHER MINOR CHANGES.
SEQ-SEW-1307-4	NOTE AMENDED
SEQ-SEW-1308-1	ADDED SURROUND SIZE, AMENDED NOTE 4 & 8 AND THE TABLE, DELETED 'H' TABLE. DRAFTING IMPROVEMENT
SEQ-SEW-1308-10	AMENDED NOTE 13
SEQ-SEW-1315-1	NOTE 7 AMENDED
SEQ-SEW-1401-1	AMENDED NOTE 4
SEQ-SEW-1402-1	MINOR CORRECTIONS TO DRAWING REFERENCE
SEQ-SEW-1403-1	NOTE 5 REWORDED
SEQ-SEW-1412-1	DRAWING REFERENCE ON LAYOUT ARRANGEMENT AMENDED
SEQ-SEW-1502-1	MINOR CORRECTION OF REFERENCE ON CHANNEL DETAILS