

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						Oct 2017	ACCEPTED CIVIL PRODUCTS AND MATERIALS							
	A	B	C	D	E	F	G	H	I	J	K			
	Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	Gold Coast Water and Waste	Logan City Council	Redland City Council	QUU	Unitywater			
1	Notes: WSAA Product Specification WSAA Product Specifications are available from www.wsaa.asn.au . Section 4 of the WSAA Product Specifications is for "Agency or Project Specific Requirements". The SEQ requirements are specified below. Manufacturer/Supplier Products may be sourced from alternative Suppliers than those listed provided that the products are manufactured by a Manufacturer whose name, and the products' trade name, appear on the list. Size Range Size ranges need to be read in conjunction with the relevant clauses of the SEQ versions of the WSAA Codes (e.g. Water Supply Code Clause 3.1.1; Sewerage Code Clause 10.6; Pressure Sewerage Code Clause 4.5.3.1; etc.) Blank Cells in the five columns under the service provider's names cells that are blank indicate that the product listed on that row are acceptable to the service provider. 'Use is subject to acceptance by SP' Contact the service provider to determine if the use of this product is acceptable in the proposed circumstance. 'Flange' All flanges used for pressure systems shall be PN16 or PN35 complying with AS4087.													
2														
3	Category: SEWERAGE PIPES AND FITTINGS - NON PRESSURE													
4	PVC-U pipe and fittings - DWV system	230 4.1 - Plain Wall 4.2 - Elastomeric Seal 4.3 - Stiffness as per 230.2.(c) or as required by SP 4.4 - RRJ @ SBR & EPDM	Iplex	DWV PIPE	DN100 150 225 300 375	Plain wall only accepted	DN100 at SN6 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum	DN100 at SN6 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum	DN100 at SN6 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum	Use is subject to acceptance by SP	DN100 at SN10, DN150 and larger at SN8 and Fittings at SN8 minimum			
5			Vinidex	DWV SEWER										
6			Viadux	D-FLO										
7			Micron Pipelines	Micron Pipelines	DN100 - DN300									
8			Pipemakers	Pipemakers										
9	PVC-U Pressure pipe Sewer using Standard DWV Junctions	211 4.1 - PN12 4.2 - Deep Sewers or Minimum Cover 4.3 - Standard Packaging & Delivery 4.4 - Series 1 4.5 - RRJ @ SBR & EPDM	Iplex		DN150 225 300	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Mandatory for sewers deeper than 3 metres and for sewers with minimum cover All details to be confirmed with SP				
10			Vinidex											
11			Viadux											
12	DI pipe	202S 4.1 – PN16 4.2 – Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp 4.3 – Polyurethane lining 4.4 – Restrained Joints on Zinc/Bitumen coated pipe 4.5 – Zinc/Bitumen coating or Polyurethane coating 4.6 – SBR, EPDM or NBR 4.7 - PE sleeving is required on all DI pipes unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	VonRoll / Reece	Ducpur/ Ecopur	DN80 - 700	Polyurethane internal protection		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP				
13			Viadux	Tytonxtreme	DN100 - 750	CAC cement lining	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Accepted in applications where DI pipe is specified e.g. building over sewer applications	NOT ACCEPTED BY SP			
14												Crevet / Iplex	Ironitite	DN100 - 750
15												Saint-Gobain	Integral Zinalium	DN100 – 750
16	Steel pipe	203 4.1 – By design and PN16 min 4.2 – SEQ Code nominal DN's 4.3 – Seal coat not required for sewage 4.4 – Extra protection by design 4.5 – Joints by design to SEQ Code Standards	Steel Mains	Sintapipe		Internal lining would be required, either Epoxy or Sintaline		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Sintapipe accepted in applications where steel pipe is specified.				
17	Polypropylene (PP) pipe	240 4.1 - Type B - ID Series 4.2 - SN10,000 4.3 - RRJ @ SBR & EPDM	Vinidex	SewerPRO	DN150 - 900			Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP			
18			Iplex	SewerMAX	DN225 - 600									
19			Enviropipes	EnviroPipe	DN150 - 900									
20	PE pipe - NuSewers	207 4.1 - Minimum PN8 SDR21 PE100 4.2 - Gravity Sewer fully welded 4.3 - Pipes lengths for DN160 and larger with coils accepted for DN110 4.4 - External colour light grey Solid or Striped with Internal colour white or light colour, see POP203 4.5 - PE100 only	Iplex	POLIplex	DN110 160 250 315 400 500 630 800 1000 1200	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	PE is mandatory pipe for reticulation sewers, PE is preferred pipe for larger sewers. Where > PN8 is required, dark internal pipe colour may be used with prior SP approval					
21			Vinidex	Sewertech										
22			DMG	Hi-Vis										
23			Viadux											
24			Poly Pipe	SewerFlex										
25			Enviropipes	Enviropressure										
26	PE fittings - Moulded	208 4.1 - PN10 preferred 4.2 - Electrofusion or butt welding 4.3 - Couplings and Saddles 4.4 - Bolting Flanges not required. 4.5 - Elastomeric Seals not permitted And Electrofusion fitting Standards AS4129, EN1555, EN12201, EN13244-4	George Fischer / Iplex			Electrofusion fitting to be long type.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Flanged tees and flanged saddles are not accepted by SP.	Spigot ended fittings, flanged tees and flanged saddles are not accepted by SP.			
27			Friatec / Vinidex											
28			Plasson	Lightfit										
29			Agru	AGRU										
30			Fusion Group/FusionPlast	Fusamatic	Up to DN630									
31			NUPIGECO	Elofit	DN110 to DN630									
32	PE fittings - Fabricated	216 4.1 - PN10 preferred 4.2 - Electrofusion or butt welding Including Sweep Bends, MH Connectors, Sediment Traps, Tee and Bends for drop pipes and Sweep Junctions.	Vinidex			Electrofusion fitting to be long type. PE MH connectors shall have Hydrophilic seals both sides of puddle flange.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP					
33			Iplex											
34	VC pipe	231 4.1 - DN100/150 Crushing Strength 34, DN225 and larger Class 160 4.2 - Sp-Soc and Sleeve Coupling 4.3 - All seal materials accepted	Hepworth	Supersleeve	DN100-1200	Use is subject to acceptance by SP May only be used as jacking pipes				Use is subject to acceptance by SP May only be used as jacking pipes	May only be used as jacking pipes			
35			Steinzeug Keramo	Keramo										
36			Naylor / Rocla	Denlok										
37	DI IO bends or X Drop fitting	201 4.1 - Sp-Soc ends to serve PVC-U DWV pipe 4.2 - Refer Standard drawings 4.3 - Standard RRJ for accept PVC-U DWV pipe 4.4 - SBR & EPDM 4.5 - Thermal-bonded polymeric coated and lined	Crevet			All DI fittings to be wrapped				Use is subject to acceptance by SP	NOT ACCEPTED BY SP			
38			Viadux											
39	Metal-banded flexible coupling	235 4.1 - Need for adaptor bushes where difference between OD of pipe and ID of coupling greater than 16 mm 4.2 - Metal band and bolts shall be min SS316	Flex-Seal	Flex-Seal	Up to DN600					Use is subject to acceptance by SP	Use is subject to acceptance by SP			
40			DEKS	DEKS shear banded coupling	DN100 to DN225									
41	DI mechanical couplings - Non End Thrust Restraint	270 4.1 - PN16 4.2 - All pipe materials except PE 4.3 - Long Series 4.4 - Straight Soc-Soc 4.5 - Stepped coupling require SP approval 4.6 - Flange end not used 4.7 - SBR & EPDM And SS316 bolts, nuts and washers	Viadux	Gibault - Ezigib & Varigib		Long type All DI fittings to be wrapped DI must have thermal bonded polymeric coating				Use is subject to acceptance by SP				
42			Crevet	Gibault & Universal										
43			AVK	Gibault & Universal										
44			Viking Johnson	MaxiFit & QuickFit										
45			Derwent											
46			DEKS	DEKS FLEXI-GIB	DN80 to DN600									
47			Daemco	Reinoversal	Up to DN 600									

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48	Reinforced Concrete pipe	233 4.1 - Class 4 4.2 - Bends not permitted 4.3 - In corrosive soils coat external face with 250 micron DFT High Build Epoxy 4.4 - Lifting holes not permitted 4.5 - 2.0 mm PE sheet Factory cast-in liner with Invert overlapped but not welded 4.6 - No additional cover 4.7 - SBR & EPDM	Rocla				Use is subject to acceptance by SP			Use is subject to acceptance by SP	Use is subject to acceptance by SP
49			Humes								
50	Polycrete pipe	No WSA-PS 4.1 - Class to suit design 4.2 - Bends not permitted 4.3 - Compliance with ASTM D 6783, DIN 54815-1 and DIN 54815-2 4.4 - SBR and EPDM Sewer Pipe and Jacking Pipe approved	Iplex	Meyer pipe	DN200 to 2600		Use is subject to acceptance by SP			Use is subject to acceptance by SP	Use is subject to acceptance by SP Coupling Grade 316 Stainless Steel (min.)
51			Global Pipe	Al Watani							
52	CC-GRP (centrifugally cast) pipe and Fittings - Sewer Pipe	237S 4.1 - PN1 4.2 - SN10,000 minimum 4.3 - Soc-Sp RRJ 4.4 - Standard Glass 4.5 - SBR & EPDM	Superlit / Clover Pipelines	Superlit	DN400 - DN1400	Sewer Pipe	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
53	FW-GRP (filament wound) pipe and Fittings - Sewer Pipe	205S 4.1 - As per product 4.2 - PN1 4.3 - SN10,000 minimum 4.4 - Bends, T-piece, Y-piece, Saddles, Reducers, Flanges and MH Couplings 4.5 - Soc-Sp RRJ 4.6 - Standard Glass 4.7 - SBR & EPDM	Flowtite / Iplex	Flowtite	DN300 - DN3000	Sewer Pipe	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
54			Global Pipe	Fiberstrong	DN300 - DN4000						
55			Superlit / Clover Pipelines	Superlit	DN300 - DN3000						
56	CC-GRP (centrifugally cast) pipe and Fittings - Jacking Pipe	205J 4.1 - As per product 4.2 - Pressure Class by design 4.3 - Stiffness Class by design 4.4 - Jacking Load by design 4.5 - 316 Stainless Steel (min) or GRP couplings 4.6 - SBR & EPDM 4.7 - Pipe Lengths to manufacturers requirements 4.8 - Standard Glass	Hobas / Global Pipe	Hobas	DN250 - DN3600	Jacking pipes	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
57			Empire Infrastructure	BOSSPIPE	DN300 - DN2000						
58			Superlit / Clover Pipelines	Superlit	DN400 - DN1400						
59	FW-GRP (filament wound) pipe and Fittings - Jacking Pipe	206J 4.1 - As per product 4.2 - Pressure Class by design 4.3 - Stiffness Class by design 4.4 - Jacking Load by design 4.5 - 316 Stainless Steel (min) or GRP couplings 4.6 - SBR & EPDM 4.7 - Pipe Lengths to manufacturers requirements 4.8 - Standard Glass	Flowtite / Iplex	Flowtite	DN300 - DN3000	Jacking pipes		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
60	Non-return valves	No WSA-PS	Iplex	Flap valve	DN50 to DN300	All DI fittings to be wrapped	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
61				Reflux valve fabricated	DN100						
62			Vinidex	Flap valve	DN50 to DN100						
63			Hygrade Water	WaStop Non-return valves	DN75 to DN200						
64			Fluid Control	Red valve - Tideflex check valves	DN50 to DN2400						
65	Knife gate valve - Stainless Steel	266 4.1 - PN10 4.2 - Wafer or Lugged 4.3 - Clockwise closing, rising spindle	Pentair	Keystone	Up to DN600	Body stainless steel Grade 316. Gate stainless steel Grade 316. Gland Follower stainless steel Grade 304 or 316. Spindle stainless steel grade 304 or 316. Yoke/Pillar/Bridge stainless steel Grade 304 or 316. Seat EPDM, NBR, RTFE or Viton. All fasteners stainless steel Grade 316.	Use is subject to acceptance by SP		Use is subject to acceptance by SP		Subject to meeting the corrosion resistance requirements in Column F
66			Challenger	Challenger							
67			AVFI	AVFI						Use is subject to acceptance by SP	
68			HMA Valvecó	HMA Valvecó							
69			AVK (Note: This is the only vendor complying with 316 SS throughout)	AVK							
70	Knife gate valve - Fabricated Stainless Steel	266 4.1 - PN1 4.2 - Lugged 4.3 - Clockwise closing, rising spindle (Note: This is a low pressure type gate valve, suitable only for sewer isolation etc.)	Australian Water Engineers	Australian Water Engineers	DN700 to DN1200	Body, Gate, Gland Follower, Spindle and Yoke / Pillar / Bridge stainless steel Grade 316. Seat EPDM. All fasteners stainless steel Grade 316.	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
71	Knife gate valve - Ductile iron body	266 4.1 - PN10 4.2 - Wafer or Lugged 4.3 - Clockwise closing, rising spindle	Pentair	Keystone	Up to DN600	Body and Gland Follower ductile iron with fusion bonded polymeric coating external to 300 µm, internal to 350 µm (min.) or high-build two-pack epoxy to 275 µm (min.). Gate stainless steel Grade 316. Spindle stainless steel Grade 316. Yoke / Pillar / Bridge carbon steel with fusion bonded polymeric coating to 300 µm or high-build two-pack epoxy to 275 µm (min.). Seat EPDM, NBR, RTFE or Viton. All fasteners stainless steel Grade 316. All DI fittings to be wrapped	Use is subject to acceptance by SP		Use is subject to acceptance by SP	Use is subject to acceptance by SP	
72			Challenger	Challenger							
73			AVFI	AVFI							
74			AVK	AVK							

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75	Category: SEWERAGE PIPES AND FITTINGS - PRESSURE											
76	PVC-M pipe	209 4.1 - PN16 4.2 - Sewer Rising main 4.3 - Series 2 only 4.4 - Cream refer POP203 4.5 - SBR & EPDM	Iplex	BLUERHINO	DN100 150 200 225 250 300 & 375			Use is subject to acceptance by SP		Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
77			Vinidex	Hydro								
78			Viadux	TUF-FLO								
79			Micron Pipelines	Micron Pipelines	DN100 - DN300							
80			Pipemakers	Pipemakers Enviromain								
81	PVC-O pipe	210 4.1 - PN16 4.2 - MRS400 or MRS450 4.3 - Sewer Rising main 4.4 - Series 2 only, Cream refer POP203 4.5 - SBR & EPDM	Iplex	ApolloBLUE	DN100 150 200 225 250 300 & 375			Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP		
82			Vinidex	Supermain								
83			Micron Pipelines	Micron Pipelines	DN100 - DN375							
84			Pipemakers	Alphamain	DN100 to DN150							
85	DI pipe	200 and WSAA TN6 4.1 - All Pressure Classes - see Column F 4.2 - Seal Coat not required for Sewerage 4.3 - Cement Mortar Linings - see Columns F-K 4.4 - All fittings to be Fusion Bonded Polymeric Coated 4.5 - Restraint Joint Seals by approval 4.6 - SBR and EPDM 4.7 - PE sleeving is required on ALL DI pipes, including those with a zinc-alluminium alloy coating, unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	Viadux	Tytonxcel	DN250 - 750 (not 225)	Cement Mortar lining of any type is not permitted within 5.0 metres of the HGL at pump stop. Alternative non-corrosive lining or pipe and fittings required.	Cement Mortar lining of any type is not permitted within 5.0 meters of the HGL at pump stop. Alternative non-corrosive lining or pipe and fittings required.	Cement Mortar lining of any type is not permitted within 5.0 metres of the HGL at pump stop. Alternative non-corrosive lining or pipe and fittings required.	Cement Mortar lining of any type is not permitted within 5.0 metres of the HGL at pump stop. Alternative non-corrosive lining or pipe and fittings required.	NOT ACCEPTED BY SP	PN20 NOT ACCEPTED BY SP	
86			Vinidex	LINX-GP								
87			Vinidex	ZAP-GP								
88			Viadux	Tytonxtreme								
89			Vinidex	LINX-HAC								
90			Vinidex	ZAP-HAC								
91			Viadux	Tytonxcel	DN100 150 200 250 300 375 450 500 600 & 750 (not 225)					PN35, CAC lining for corrosive flows		
92			Crevet / Iplex	Ironitle								
93			Vinidex	LINX-GP								
94			Vinidex	ZAP-GP								
95			Viadux	Tytonxtreme								
96			Crevet / Iplex	Ironitle		PN35 with CAC lining; Flange Class with CAC lining						
97			Vinidex	LINX-HAC								
98			Vinidex	ZAP-HAC								
99			Viadux	Tytonxcel								
100			Vinidex	LINX-GP								
101			Vinidex	ZAP-GP	Flange Class, CAC lining for corrosive flows							
102			Viadux	Tytonxtreme								
103			Vinidex	LINX-HAC								
104			Vinidex	ZAP-HAC								
			Saint-Gobain	Integral Znalium	DN100 – DN750 (not 225)						Use is subject to acceptance by SP	
105	DI Pipe - ISO	202S 4.1 – K9-PN35 4.2 – Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp 4.3 – Polyurethane lining only 4.4 – Restrained Joints on Zinc/Bitumen coated pipe 4.5 –Only Polyurethane coating on aerial pipes 4.6 – SBR, EPDM or NBR 4.7 - PE sleeving is required on ALL DI pipes, including those with zinc-alluminium alloy coating, unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	VonRoll / Reece	Ducpur/ Ecopur	DN80 - 700	Polyurethane internal protection	Detector Tape for ISO Pipe spirally wound along pipe and over PE sleeve on Zinc/Bitumen pipe.	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
106	DI fittings - bends, tapers, tees/branches, connectors, risers & caps/blank ends	201 4.1 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp 4.2 - Standard and PN16 fittings 4.3 - Restraint Joint Seals by approval 4.4 - SBR & EPDM	Viadux	Tyton Joint	Up to DN750 (not 225)	Thermal bonded polymeric coating is the standard material in WSA PS 201 and WSA PS212 All DI fittings to be wrapped					Restraint joint seals not suitable for: PN20 pipe; Aboveground applications; Combining joint restraint and thrust blocks; Epoxy or fusion coated spigots (incl Tytonxtreme pipe); Other manufacturers sockets or other pipe materials. Use of Restrained Joint Rubber Rings (Tyton-lok) subject to acceptance by SP.	
107			Crevet / Iplex	Crevet	Up to DN750 (not 225)							
108			Vinidex	Superlink	Up to DN750 (not 225)							
109			Derwent		Up to DN750 (not 225)							
110			Gillies		DN100 & DN150							
111			Himgiri Castings/Galvin Engineering / CivilPipes	Galvin	DN80 to DN300							
112			Dobbie Dico	Dobbie	DN100 to DN250							
113			Mallet	Mallet	DN80 to DN750							
114	Bolts	No WSA-PS Refer Standard Drawing SEQ-WAT-1313-1 etc.				316 Stainless steel bolts	Refer Standard Drawing	Refer Standard Drawing	Refer Standard Drawing	SS316	Grade 316 Stainless Steel (min.)	
115	316 SS repair and flanged off-take clamps	313 4.1 - Type R or F by SP approval 4.2 - Pipe DN by SP approval 4.3 - Off-take DN by approval 4.4 - Min. PN16	Crevet		DN100 to DN300	Min. PN16, Flanged off-take clamps approved on DI and CI host pipes only, to Pipe manufacturers specifications	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
116			Viadux	Wang	DN100 to DN300							
117			Cascade Control	Rapid Clamps	DN40 to DN350							
118			Daemco	Norma Connect	DN80 to DN300							
119	Repair Couplings	270 4.1 - PN16 4.2 - All pipe materials 4.3 - Short and Long Series 4.4 - Straight and Stepped 4.5 - All DN Range options 4.6 - Flange end not used 4.7 – EPDM, NBR, Neoprene And SS316 bolts, nuts and washers	Nova Siria/Hygrade Water	Duofit	DN 300 - DN2000		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
120												
121												
122												
123												
124	Flange (DI) off-take clamps	327 4.1 - Pipe DN63 and larger (see WSA PS 207 above) - Off-take ID 20 mm minimum 4.2 - PN16 4.3 - Female Rp thread to AS ISO 7.1 4.4 - Without electrical Isolation	Hawle / Hygrade Water	Haku	DN125 to DN355	For use on PE pipe only, installed and commissioned in accordance with manufacturers recommendations All DI fittings to be wrapped	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP			
125	Metal-banded flexible couplings - Vacuum Valve coupling use only	235 4.1 - Need for adaptor bushes where difference between OD of pipe and ID of coupling greater than 16 mm 4.2 - Metal band and bolts shall be min SS316	Flex-Seal	Flex-Seal	Up to DN600			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
126			DEKS	DEKS shear banded coupling	DN100 to DN225							

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124	DI mechanical couplings - Non End Thrust Restraint	270 4.1 - PN16 4.2 - All pipe materials except PE 4.3 - Long Series 4.4 - Straight Soc-Soc 4.5 - Stepped coupling require SP approval 4.6 - Flange end not used 4.7 - SBR & EPDM And SS316 bolts, nuts and washers	Viadux	Gibault - Ezigib & Varigib		Long type All DI fittings to be wrapped DI must have thermal bonded polymeric coating									
125			Crevet	Gibault & Universal											
126			AVK	Gibault & Universal											
127			Viking Johnson	MaxiFit, QuickFit											
128			Derwent												
129			DEKS	DEKS FLEXI-GIB	DN80 to DN600					Use is subject to acceptance by SP					
130			Daemco	Reinoversal	Up to DN 600										
131	DI mechanical fittings - End Thrust Restraint (Gripper Type)	271 for DI, 245 for PE 4.1 - PN16 4.2 - DI and PE 4.3 - Short and Long Series 4.4 - Straight and Stepped and Flange Adaptor 4.5 - All DN Range options 4.6 - Flange Figure as specified with SS316 bolts, nuts and washers 4.7 - SBR & EPDM & Nitrile And SS316 bolts, nuts and washers	DI mechanical fittings - End Thrust Restraint (Gripper Type)	System 2000 for PE Synoflex PN16 Restraint for AC, PVC, DICL, SCL, PE	DN50-DN300	All DI fittings to be wrapped				Only accepted for use where welded joints are not practical Use of Synoflex is not accepted on PVC and GRP pipe materials	Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations The use of gripper type fittings on AC, PVC, DI and SCL pipe is subject to acceptance by SP				
132			AVK	Supa Plus Restraint for PE											
133			+GF+	Multi/joint 3000 Plus restraint type for AC, PVC, DI, SCL, PE											
134			Viking Johnson	Aquafast and Aquagrip Restraint for PE	DN350-DN1400					Use is subject to acceptance by SP	Use is subject to acceptance by SP				
135					Nova Siria/Hygrade Water					Multigrip	DN350-DN1400	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
136	DI flanged telescopic flexible fitting	No WSA-PS Aligned to WSA_PS 201 and 270 with Flanges to AS 4087 Figure B5 To comply with WSA PS-201S when published	Hawle / Hygrade Water WSA PA 12/09	Vario	DN50 - DN200	All DI fittings to be wrapped				Use is subject to acceptance by SP					
137	Dismantling joints for Flange Pipe and Fittings	201 4.1 - FI-FI for DJ & FI/Sp for UniFlange 4.2 - Thrust type and non-thrust type minimum PN16 4.3 - Thrust Restraint by Fitting 4.4 - SBR & EPDM	Viadux			Thrust restraint type and non-thrust type are Flanged to AS4087 PN16. SS316 bolts, nuts and washers. Larger sizes of UniFlange shall be assessed for available Fitting PN vs Pipeline Test Head. All DI fittings to be wrapped					Uni-flange to be used within pit or aboveground locations only				
138			Viking Johnson												
139			Valveco	Uni-Flange Adaptor	DN50-DN500										
140			Hygrade Water	Pipemate	DN80-DN900										
141			AVFI	AFD10 Series	DN80-DN1200										
142	PE pipe	207 4.1 - PN16 4.2 - Sewer Rising main 4.3 - Coil pipe permitted up to DN125 with Pipe lengths for larger DN 4.4 - Cream refer POP203 4.5 - PE100 only	Iplex	POLIplex	DN40 50 63 90 125 180 250 315 355 450 560 630 800	For directional drilling installations, minimum SDR 9 (PN20 PE100) unless specified otherwise and install with SS316 tracer wire. Pipe wall thickness to be designed for installation forces.	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	PE is preferred pipe material - PE shall be used unless specific site conditions dictate otherwise.	PE is preferred pipe material				
143			Vinidex	Sewertech											
144			DMG	Hi-Vis											
145			Viadux												
146			Poly Pipe	SewerFlex											
147			Cromford	Identipipe											
148			Enviropipes	Enviropressure											
149			ACP	ACP						Use is subject to acceptance by SP	Use is subject to acceptance by SP				
150	PE pipe - High Stress Crack Resistant (HSCR) Polyethylene Pipe	207, POP016 4.1 - PN16 minimum 4.2 - Sewer Rising main 4.3 - Coil pipe permitted up to DN125 with Pipe lengths for larger DN 4.4 - Cream refer POP203 4.5 - HSCR PE100 only	Iplex	Millennium HSCR PE	DN40 50 63 90 125 180 250 315 355 450 560 630 800	For directional drilling and pipe bursting installations, minimum SDR 9 (PN20 HSCR PE100) unless specified otherwise and install with SS316 tracer wires. Pipe wall thickness to be specified as normal PE100 as such "extra" strength should be provided.	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP					
151	PE fittings	208 2(a) - AS/NZS4129 or EN1555 or EN12201 or EN13244 is acceptable 4.1 - PN16 4.2 - Electrofusion and butt weld 4.3 - Couplings, Reducers, End Caps, Bends, Tees, Stub Flanges 4.4 - Flanges & SS backing rings to AS/NZS 4087 Fig B5 or B7 4.5 - SBR & EPDM	George Fischer			Electrofusion fitting to be long type. Stub flange may only to be used for DN450 and larger sizes.	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Spigot ended fittings, flanged tees and flanged saddles are not accepted by SP				
152			Friatec / Vinidex	Frialen	DN63XDN32 to DN350XDN90										
153			Plasson												
154			Agru	AGRU	Up to DN630										
155			Fusion Group / FusionPlast	Fusamatic	Up to DN630					Flanged tees and flanged saddles are not accepted by SP	Spigot ended fittings, flanged tees and flanged saddles are not accepted by SP				
156			NUPIGECO	Elofit	DN20 to DN710										
157	Full face PE flanges	208 4.1 - PN16 4.2 - Electrofusion and butt weld 4.3 - Full Face Flange with SS backing ring 4.4 - Flange standard AS/NZS 4087 B5 or B7 4.5 - SBR & EPDM	Plasson		DN80/DN100	Slotted flanges & backing rings suit both DN80 and DN100 to WSA 98/50	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use of stub flanges is subject to acceptance by SP				
158			Iplex		Up to DN355	Full bore connections									
159			Friatec / Vinidex	Frialen	Up to DN180	Metal insert in the flange, backing rings not required					Use is subject to acceptance by SP				
160			Rodney / Vinidex	Maxi Stub	Up to DN355	Full bore connection	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP						
161	Steel pipe	203 4.1 - MPa 1.6 minimum 4.2 - DN by Design subject to SP approval 4.3 - Seal Coat not required 4.4 - Sintakote minimum for above ground 4.5 - Joint requirements by Design 4.6 - Cathodic Protection by design 4.7 - Standard pressure tests 4.8 - Sintapipe lining 4.9 - SBR & EPDM 4.10 - Sintakote minimum	Steel Mains	Sintapipe	DN324 - 813	RRJ unless otherwise approved	Use is subject to acceptance by SP DN610 minimum size	Use is subject to acceptance by SP DN610 minimum size	Use is subject to acceptance by SP DN610 minimum size	Use is subject to acceptance by SP	Use is subject to acceptance by SP				
162	Stainless Steel Pipe	No WSA-PS WSAA Materials Fact Sheet No:2 Selection of Stainless Steels WSAA Materials Fact Sheet No:3 Fabricating Stainless Steels	ASSDA accredited fabricators	N/A	DN100 - DN750	Min. Grade 316 Min. PN16 Flange to AS4087 Fig B5	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP				
163	Resilient seated gate valves, thermal bonded polymeric coating	260 4.1 - PN16 4.2 - All End configurations accepted 4.3 - Integral By-pass on DN450 and larger (Unitywater accepts either integral or constructed by-pass as per job specification) 4.4 - Gear Box on DN600 and larger (Refer Mechanical List) 4.5 - Anti-Clockwise closing 4.6 - No requirement for spindle cap colour 4.7 - Extension Spindle to WSA PS - 262 4.8 - Spindle Cap 4.9 - SBR & EPDM	AVK	Series 57 (light type only for DN100 & 150) Series 570 Series 36/80 Series 01/71 Series 55	Up to DN400 Up to DN400 Up to DN300 Up to DN300 DN450 to 600	For PE pipes PE gripper Sluice Valves by Hawle E2 System 2000 or AVK Supa Plus Coupling Series 01/70 or equal Sluice Valves with PE stubs for electrofusion acceptable. Some valves may not need by-pass (check with SEQ SPs). All DI fittings to be wrapped	DN600 and larger valves shall be DeZurik Eccentric Plug Valves Use of Auslite III is subject to acceptance by SP				Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.				
164			Hawle	E2											
165			Viadux	Series 500 Auslite II Auslite III	DN200 - DN300 Up to DN 400										
166			Karon / Challenger	Karon	DN80 - DN600										
167			AVFI												
168			Betta	BETTA	DN100 - DN375						Use is subject to acceptance by SP				
169			AAP Industries	Maxflo/appFLO	DN80 to DN300							WSAA Appraisal 11/26 Issue 2			
170			Derwent Industries	Derwent	DN80 - DN600							WSAA Appraisal 1511			
171			DAEMCO		DN80 to DN300						WSAA Appraisal 1517 (10/05/16)	NOT ACCEPTED BY SP			

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						Oct 2017	ACCEPTED CIVIL PRODUCTS AND MATERIALS				
	A	B	C	D	E	F	G	H	I	J	K
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	Gold Coast Water and Waste	Logan City Council	Redland City Council	QUU	Unitywater
172	Ball Valves	274 4.1 - PN16 4.2 - Body material: 316 stainless steel 4.3 - by product 4.4 - BSPT thread 4.5 - Clockwise closing	Pentair / Viadux	Keystone	Up to DN50	BSPT threaded connections Suitable for sewage					
173			AVFI	V1 Series - 1 Piece V2 Series - 2 Piece V3 Series - 3 Piece V2FH Series- Flanged	DN8 – DN50 DN8 – DN100 DN8 – DN100 DN15 - DN50		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
174	CC-GRP (centrifugally cast) pipe and Fittings - Sewer Pipe	237S 4.1 - PN1 4.2 - SN10,000 minimum 4.3 - Soc-Sp RRJ 4.4 - Standard Glass 4.5 - SBR & EPDM	Superlit / Clover Pipelines	Superlit	DN400 - DN1400	DI Fittings to WSA PS 201 for Tees and Bends			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP Coupling - Grade 316 Stainless Steel (min.)
175	FW-GRP (filament wound) pipe and Fittings - Sewer Pipe	205S 4.1 - As per product 4.2 - PN1 4.3 - SN10,000 minimum 4.4 - Bends, T-piece, Y-piece, Saddles, Reducers, Flanges and MH Couplings 4.5 - Soc-Sp RRJ 4.6 - Standard Glass 4.7 - SBR & EPDM	Flowtite / Iplex	Flowtite	DN300 - DN3000	DI Fittings to WSA PS 201 for Tees and Bends			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP Coupling - Grade 316 Stainless Steel (min.)
176			Global Pipe	Fiberstrong	DN300 - DN4000						
177			Superlit / Clover Pipelines	Superlit	DN300 - DN3000						
178	Flowmeter - Network Meter	No WSAA PS 4.1 - Flange to AS4087 Figure 5 4.2 - PN16	ABB	ABB				Use is subject to acceptance by SP		NOT ACCEPTED BY SP	ABB Water master
179			Siemens	Siemens				Use is subject to acceptance by SP		NOT ACCEPTED BY SP	Use is subject to acceptance by SP
180			E & H	E & H				E & H 53W		E & H Promag W400	Use is subject to acceptance by SP
181			Emerson	Emerson			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						Oct 2017	ACCEPTED CIVIL PRODUCTS AND MATERIALS				
	A	B	C	D	E	F	G	H	I	J	K
	Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	Gold Coast Water and Waste	Logan City Council	Redland City Council	QUU	Unitywater
1	Category: SEWERAGE MISCELLANEOUS ITEMS										
182	Maintenance structure covers, frames and risers	290 4.1 - DN600 4.2 - Round Solid Top (Conc Infill - QUU only) Sealed Type 4.3 - 600 mm Clear Opening 4.4 - Class B and Class D 4.5 - Rocking of cover in frame not permitted 4.6 - Lifting Key as per Standard Drawings 4.7 - Markings to AS3996 Clause 1.6 (a) to (f). 4.8 - No Hinge 4.9 - Standard Packaging and Delivery 4.10 - QUU require QUU cast in as per Standard Drawings 4.11 - Standard Coating 4.12 - Bolt down for Surcharge and overland flow areas, 4 x M8 (min) SS316 Bolts 4.13 - by Standards	Gatic / Milne			Refer Standard Drawings. Covers with another Service Provider's name not accepted. Use of Square and Rectangular Covers and Frames subject to SP approved based on Design needs	Concrete Infill Covers NOT ACCEPTED BY SP	Concrete Infill Covers NOT ACCEPTED BY SP	Concrete Infill Covers NOT ACCEPTED BY SP	Concrete Infill Covers NOT ACCEPTED BY SP	
183			East Jordan (Havestock)								
184			Webforge								
185			Tellam								
186			Durham								
187			Hygrade								
188	Maintenance shaft covers, frames and risers DN<=450	292 4.1-DN<=450 Round 4.2-DN360 min clear opening 4.3-Standard Lifting Key 4.4-Markings to AS3996 Clause 1.6 (a) to (f) 4.5-Standard packaging 4.6-No specific markings required 4.7-No bolt down required	Smartstream	Smartstream Top Hat- P8HDS		DI-Class D			Use is subject to acceptance by SP	Use is subject to acceptance by SP	
189			Smartstream	Smartstream Top Hat- P8PEC		PE - Class B					
190			SYI Foundry/Aymroo	Aymroo	360 mm clear opening	CI - Class B					
191	Maintenance hole lightweight composite lids and frames (non-corrosive)	292 4.1-DN<=600 Round 4.2-DN600 min clear opening 4.3-Standard Lifting Key 4.4-Markings to AS3996 Clause 1.6 (a) to (f) 4.5-Standard packaging 4.6-No specific markings required 4.7-Bolt down for Surcharge and overland flow areas, 2 x M8 min SS316 Bolts	Terra Firma			Composite - Class B and D	Non-Corrosive MH lids and frames are required for Discharge Manholes and all Manholes for sewers DN300 and larger TMR approval is required on TMR roads	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
192			ACO SAKU			Composite - Class B					
193			Prime Composites			Composite – Class B and D					
194											
195	Emergency Storage maintenance hole cover	290 4.1 – DN1000 4.2 – Two part round 4.3 – 920 mm Clear Opening 4.4 – Class C 4.5 – Rocking of cover in frame not permitted 4.6 – Hand grip lifting points 4.7 – No requirements 4.8 – Central Hinge not required 4.9 – Standard Packaging and Delivery 4.10 – No requirements 4.11 – No requirements 4.12 – 4 x 3/8" Allen Key SS 316 Bolts 4.13 – Nil Seat ring SS 316	Treloar	MC1000-Manway Cover	DN900	Class C Fabricated S/Steel grade 316 ring Nitrile gasket seal			Use is subject to acceptance by SP		
196	Step irons	314 4.1 - Single Step 4.2 - Complies with Figure 5.10 of AS1657 4.3 - Steel bar internal with Plastic encapsulation or SS316 4.4 - Plastic encapsulation or SS316 4.5 - No reflectors required 4.6 - No other safety devices required	Miyama / Nextep	Miyama		M053	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	
197			Aymroo	Aymroo							
198			C & C Plastics / Havestock	Posistep							
199			Industrial Steps & Ladders	Sure-Step							
200	Ladders	315 4.1 - Type D - Fixed Ladder with two Stiles 4.2 - PBT, FRP, SS316, Galvanised Steel or Aluminium 4.3 - By Standards 4.4 - By Standards 4.5 - Reflectors optional 4.6 - 150 mm from CL of rung to MH wall 4.7 - By Standards 4.8 - Colour as per material 4.9 - SS 316	Miyama / Nextep	Miyama		Fibre reinforced plastics (yellow). Brackets & Fasteners to be SS316 Min. Clearances for Rung Type Ladders as per AS1657 Fixed Platforms, Walkways, Stairways and Ladders - Design and Installation	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	
201			Industrial Steps & Ladders	Add-A-Step							Revised installation procedure WSAA Product Update 1-2011, Subject to WSAA appraisal 5/11 and WSAA Product Alert 1-2010. Brackets as per manufacture specification. Fasteners to be SS316. Bright yellow.
202			Galvanised Steel								
203			Stainless Steel or Aluminium		Refer to Standard Drawings						
204	Maintenance Shaft PVC	321 4.1 - As per Standards 4.2 - As per Specifications 4.3 - As per Standards 4.4 - Inlet and Outlet at DN150 to DN225 4.5 - Configurations as shown in Standard drawings 4.6 - As per accepted product 4.7 - Inlet and Outlet Sewer connection RRJ 4.8 - Cap as shown in Standard Drawings 4.9 - As per Standard Drawings 4.10 - Connect to PCV-U DWV pipe 4.11 - Max depth 3.0 metres FSL to Invert of Sewer Pipe	Aymroo	Aymroo	DN225 PVC-U Riser Shaft	Configurations of "Central Axis" maintenance shaft (CAMS) are not accepted	Refer to clause 6.7.2 of the SEQ Sewerage Code	Refer to clause 6.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	DN225 risers not accepted. Min DN300 risers are accepted.	
205			SMS	SMS # MS3 DN150 Only							
206	Maintenance Shafts PE	322 4.1 - As per Standards 4.2 - As per Specifications 4.3 - As per Standards 4.4.a - Inlet and Outlet at DN150 to DN225 for PVC RIGSS 4.4.b - Inlet and Outlet at DN160 to DN250 for PE Nusewer 4.5 - Configurations as shown in Standard drawings 4.6 - As per accepted product 4.7.a - Inlet and Outlet PVC Sewer connection RRJ 4.7.b - Inlet and Outlet PE Sewer connection Electrofusion 4.8 - Cap as shown in Standard Drawings 4.9 - As per Standard Drawings 4.10 - Max depth 3.0 metres FSL to Invert of Pipe	Smartstream	Poo-Pit		RIGSS DN225 PVC riser shaft. Nusewer fully welded with DN250 PE risers and sewer stubs.	Approved for DN150 to DN225 RIGSS only. Refer Standard Drawing SEQ-SEW-1314 Set for other approved PE MS and MH options	Approved for DN150 RIGSS only. Refer to clause 6.7.2 of the SEQ Sewerage Code	Approved for DN150 to DN225 RIGSS only. Refer to clause 6.7.2 of the SEQ Sewerage Code. Refer Standard Drawing SEQ-SEW-1314 Set for other approved PE MS and MH options	Max depth of 5.0 meters is acceptable DN225 risers not accepted. Min DN300 risers are accepted.	

	A	B	C	D	E	F	G	H	I	J	K
	Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	Gold Coast Water and Waste	Logan City Council	Redland City Council	QUU	Unitywater
1											
207	Maintenance Shafts Polypropylene - DN425 and DN600 risers	337, 341 4.1 – DN425 and DN600 Risers 4.2 – Polypropylene Riser 4.3 – DN425 SN4 & DN600 SN8 riser pipe 4.4A – DN425 Base with DN150 sewer 4.4B – DN600 Base with DN150/225 sewer 4.5 – In-line and bends and tees 4.6 – Base and Riser ribbed 4.7A – EPDM or SBR Ring Joints RIGSS 4.8 – No locking or relief cap 4.9 - Standard MH surround, cover and frame 4.10- Max depth 3.0 meters to Invert of Sewer Pipe	Iplex	EZIpit PA 09/01 & PA 09/1-2		Refer Standard Drawings	Approved for DN150 to DN225 RIGSS only as per Cell B Base is single DN size	Refer to clause 6.7.2 of the SEQ Sewerage Code	Approved for DN150 to DN225 RIGSS only Base is single DN size Refer to clause 6.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	Approved for DN150 to DN225 RIGSS only as per cell B, Base is single DN size, NOT ACCEPTED FOR NUSEWER
208	Maintenance Shafts Polypropylene - DN225 and DN300 risers	341 4.1 – DN225 and DN300 Risers 4.2 – PVC Riser 4.3 – SN8 riser pipe 4.4 - DN150 sewer 4.5 – In-line and bends and tees 4.6 – Base ribbed, Riser Solid Wall PVC 4.7 – EPDM or SBR Ring Joints RIGSS 4.8 –Locking relief cap as per Standard Drawings 4.9 - Standard MH surround, cover and frame 4.10- Max depth 3.0 meters to Invert of Sewer Pipe	SMS	SMS PA 09/08 parts 0 to 5 Code: MS1 Code: MS2 Code: MS5		Refer Standard Drawings	Approved for DN150 RIGSS only	Approved for DN150 RIGSS only Refer to clause 6.7.2 of the SEQ Sewerage Code	Approved for DN150 RIGSS only Refer to clause 6.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	Approved for DN150 RIGSS only. DN225 risers not accepted. Min DN300 risers are accepted.
209			REHAU	OD400-GD (Type H12) OD400-RML (Type H13)							
210	Pre-cast Maintenance Holes	323 4.1a - DN1000 minimum MH 4.1b - DN600 minimum MS 4.2 - Configurations as per Standard Drawings 4.3 - No step irons or ladders 4.4 - Elastomeric and Butyl rubber seals accepted 4.5 - Calcareous aggregates no additional cover 4.6 - No special treatments 4.7 - Base format as per SEQ SP approval 4.8 - Configurations as per Standard Drawings	Humes		MH and MS DN150 and DN225 sewers	Refer Standard Drawings Use for larger Sewer DN's and MH diameters is subject to acceptance by SP Max depth of DN600 MS FSL to Invert of Pipe is 3.0 meters	DN600 Pre-cast pre-benched Channel base and Bowl base Maintenance shafts approved as shown in Standard Drawings	Use of MS is subject to acceptance by SP	Use of MS is subject to acceptance by SP	NOT ACCEPTED BY SP	Pre-cast MHs accepted Use of MS is subject to acceptance by SP
211			Rocla								
212	Pre-cast Concrete Converter Slab for Cast In-situ MHs	No WSA-PS Refer Standard Drawings	Everhard			Refer Standard Drawings Calcareous aggregates to be used					
213			Tellam								
214	Plastic Maintenance Holes	No WSA-PS Refer details of Type K1 on SEQ-SEW-1314-2 Minimum DN1000 chamber and DN600 neck	Smartstream	Smart Pit	DN150 to DN300 sewers	Refer Standard drawings Max depth FSL to Invert of Pipe is 3.0 meters		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
215	Vent poles	325 Project Specific outcome Product Appraisal Report PA 0906 for RPC	RPC Technologies			Refer Standard Drawings Tapered, Galvanised, height as design preferred colour: heritage or mist green	Accepted option is RPC for a GRP pole @ designed height	Accepted option is RPC for a GRP pole @ designed height	Accepted option is RPC for a GRP pole @ designed height	Use is subject to acceptance by SP	Use is subject to acceptance by SP
216			Ingal EPS							Accepted Height 12.0 m	Minimum accepted Height 6.0 m
217			Viadux								
218	Valve box and cover C.I. & D.I.	No WSA-PS Refer details on SEQ-WAT-1305-1 and SEQ-WAT-1305-2	NIBF			Refer Water Code Standard Drawings for approved Valve Box and Cover					
219			Gatic / Milne								
220			Tellam								
221	Loose PE sleeving to DI pipe	320 Cream Colour to POP203	Viadux	BLUEBOSS Cream		Mandatory sleeving to all DI pipe	Gravity pipe Grey colour Pressure pipe Cream colour	Gravity pipe Grey colour Pressure pipe Cream colour	Gravity pipe Grey colour Pressure pipe Cream colour		
222			Crevet								
223	Embedment material - crushed rock	351 4.1 - Single sized 4.2 - Nominal 5 or 7 mm									
224	Embedment material - recycled concrete	366 4.1 - Single sized 10 mm nominal 4.2 - Moisture Content by design	Queensland Recycling				NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		NOT ACCEPTED BY SP
225	Concrete-Normal Class	357 4.1 - As follows N20 Thrust Blocks N25 for reinforced embedment 4.2 - Slump as required for placement									
226	Concrete-Special Class (for Maintenance hole and for concrete in aggressive environment)	358 4.1 - SCC40 with Fly Ash/Type SR Portland Cement ratio of 0.25 to 0.30. 4.2 - Slump as required for placement 4.3 - Calcareous aggregate at 20 mm					Cast in-situ MH's Refer details on Standard Drawings Concrete N32 minimum	Cast in-situ MH's Refer details on Standard Drawings Concrete N32 minimum	Cast in-situ MH's Refer details on Standard Drawings Concrete N32 minimum	Calcareous aggregate size to be 10mm minimum. Admixtures shall be non-chloride type	Calcareous aggregate size to be 10mm minimum. Admixtures shall be non-chloride type
227		275 Refer Appendix B of AS4883 Size of Valve - DN50 BSP, DN50 to DN200 Flanged. Class of valve - PN16 Type of Port - Full and Reduced port Type of Valve - As per design needs Hydraulic Data - By design to AS4883 Appendix B	ARI Flow control								
228			Bermad								
229	Gas release valves		Vent-O-Mat		DN50-DN200	PN16, Anti Slam as required, Thermal bonded polymeric coating or 316 Stainless steel	DN225 and larger mains to only use Vinloc-Smartvalve			See drawing SEQ-SPS-1605-1 for standard gas release valve arrangement (manual operation). When QUU requires an automatic gas release valve, Vent Master PX is accepted. Use of others is subject to acceptance.	
230			Odour Technologies	Vinloc-Smartvalve							
231			AVFI	ARV-3-N							
232			ISCO	Vent Master PX							
233		264 Refer Appendix B of AS4794 a) Class - PN16 min - Size by Design b) Medium - Sewage c) Installation - Horizontal d) Spindle - Extended e) Lever and Counterweight minimum with switches and indicators by Design j) Flanged to AS 4087 Figure B5	HMA Valveco	Valmatic Swing-flex	DN50 - DN600		NOT ACCEPTED BY SP				
234			Dobbie Dico	Dobbie Dico	DN80-DN900						
235	Non-return valves - Swing check with counterweight lever arm		AVK	AVK Swing Check Valve 41/25	DN50	MIN. PN16, Thermal bonded polymeric coating			Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP
236			AVK	AVK Swing Check Valve 41/8X	DN80-DN300						
237			Challenger Valves	Challenger - RSSC	DN80-DN375						
238			AVFI Pty Ltd	AVFI - RSFC	DN50-DN300		NOT ACCEPTED BY SP				
239			HMA Valveco	Valmatic Swing-flex	DN50 - DN600						
240		264 Refer Appendix B of AS4794 a) Class - PN16 min - Size by Design b) Medium - Sewage c) Installation - Horizontal d) Spindle - Extended j) Flanged to AS 4087 Figure B5	Dobbie Dico	Dobbie Dico	DN80-DN900						
241	Non-return valves - free acting (without counterweight) Swing Check		AVK	AVK Swing Check Valve 41/25	DN50	MIN. PN16, Thermal bonded polymeric coating	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
242			AVK	AVK Swing Check Valve 41/8X	DN80-DN300						
243			Challenger Valves	Challenger - RSSC	DN80-DN375						
244			AVFI Pty Ltd	AVFI - RSFC	DN50-DN300						
245		230 4.1 - Plain Wall only 4.2 - Solvent Cement joints for Fabricated assemblies with Elastomeric Seal on Fitting Socket Ends 4.3 - Pipe DN100 @ SN6 min and Pipe DN150 and larger SN8 min. Fittings SN6 min 4.4 - RRJ @ SBR & EPDM	Vinindex			DWV uPVC Moulded Fitting reinforced to SEQ Standards. Type D Junction from moulded fittings welded and fibreglass wrapped. 45 Deg Oblique Jn and Property Connection bends and Inspection Tees fibreglass wrapped. Fabricator has Certification to Section 6 of AS/NZS 1260 and fittings Fibreglass wrapped as shown on the drawings SEQ-SEW-1104-1 and SEQ-SEW-1105-1.				NOT ACCEPTED BY SP	DN100 at SN10, DN150 and larger at SN8 and Fittings at SN8 minimum
246	PVC-U Fabricated Fittings Fibreglass reinforced PVC Type 'D' junctions & fittings		Iplex	Deep Sewer Junction & Reinforced Fittings such as Oblique Junctions and House Connection Bends and Inspection Tees	DN100-300						
247			Fabfit								
248			M.E. Christensen								

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE

Oct 2017

ACCEPTED CIVIL PRODUCTS AND MATERIALS

	A	B	C	D	E	F	G	H	I	J	K
	Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	Gold Coast Water and Waste	Logan City Council	Redland City Council	QUU	Unitywater
1											
249	PVC-U SN8 long radius bends	236 4.1 - SN8 minimum 4.2.1 - DN150 only, 3.0 metres radius as a heat formed bend with standard socket and spigot RRJ ends. No ovality variation permitted. 4.2.2 - DN225 only, 3.0 metres radius preferred, spigot spigot ends as a heat formed bend or as a fibreglass wrapped fabricated bend with 7.5 degree segments with 300 mm to 400 mm segment length on inside springline 4.2.3 - All long radius bends by Certified fabricators to AS/NZS 1260 Section 6 4.3 - SBR & EPDM	Vinidex	Long radius 3000 mm bends	DN150 as bent pipe & DN225 as bent or fabricated pipe	AS/NZS 1260 SN8 DN150 Bends available from 5Deg to 45Deg. DN225 and larger individually fabricated to 45Deg.		Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
250			Iplex								
251			Tri Underground								
252			Fabfit								
253			M.E. Christensen								
254	Detectable marker tape	318 4.1 - Tape/Product Colour - Drinking Water = Blue Non-Drinking Water = Purple. Sewerage = Cream 4.2 - Message = "Caution ASSET DESCRIPTION Buried Below" or "Danger Buried ASSET DESCRIPTION Below" 4.3 - SS 316 tracer wire 4.4 - See 4.1 above	Boddingtons								
255			Tapex								
256			Rain Harvesting	421		Use is subject to acceptance by SP					
257	Tracer wire	343 4.1 - CCS shall be AISI 1055 grade or higher 4.2 - Wire gauge Shall be 12 or thicker 4.3 - Minimum 520Kg 4.4 - Minimum 45mil 4.5 - minimum 1% 4.6 - as per standards 4.7 - as per standards 4.8 - Blue for Water Supply, Purple for Recycled Water and Cream for Pressure Sewer.	Tapex	Copperhead	500, 1000 and 2500 (feet)	Approved are SoloShot EHS and SoloShot Xtreme For HDD and Pipe bursting etc. Components of test station, connector and grounding anode are accepted					
258	Security fencing					AS1725.1 Chain Link Fabric Fencing-powder coated black	Fence details generally to CoGC Standard Drawing 05-014	Fence details generally to CoGC Standard Drawing 05-014	Fence details generally to CoGC Standard Drawing 05-014		
259	Hydrophilic Seal			Hydrotite							
260	Casing Spacers	324 4.1 - Carrier pipes OD from 100mm to 1668mm 4.2 - Min space between carrier pipes and encasing pipes 50mm	kwik-ZIP	kwik-ZIP	HDX Series with Runner height of 38, 65, 90 and 125 mm	For SCL, DI, PE, PVC, Concrete, GRP and FRP carrier pipes					
261	Protective lining & coating (including PE lining)	Refer to Mechanical IPAM list	Refer to Mechanical IPAM list	Refer to Mechanical IPAM list	Refer to Mechanical IPAM list	Refer to Mechanical IPAM list	Refer to Mechanical IPAM list	Refer to Mechanical IPAM list	Refer to Mechanical IPAM list	Refer to Mechanical IPAM list	Refer to Mechanical IPAM list
262	Camlock					S/Steel 316					Maximum DN100

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						Oct 2017	ACCEPTED CIVIL PRODUCTS AND MATERIALS								
	A	B	C	D	E	F	G	H	I	J	K				
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	Gold Coast Water and Waste	Logan City Council	Redland City Council	QUU	Unitywater				
263	Category: WATER SUPPLY PIPES - PRESSURE														
264	PVC-M pipe	209 4.1 - PN16 4.2 - Drinking Water 4.3 - Series 2 only 4.4 - Blue 4.5 - SBR & EPDM	Iplex	Reiber Blue	DN100 to DN300	Series 2 PN16, Min SN 10 Reiber ring accepted	PN20 PVC-M and PN35 DI/DICL are preferred pipes for carriageways and industrial/commercial areas.			Only accepted where PE is unsuitable	NOT ACCEPTED BY SP				
265			Vinindex	Hydro Blue											
266			Viadux	Tuf-Flo											
267			Micron Pipelines	Micron Pipelines	DN100 to DN300					Use is subject to acceptance by SP					
268			Pipemakers	Pipemakers Enviromain	DN100 to DN300					Only accepted where PE is unsuitable					
269	PVC-O pipe	210 4.1 - PN16 4.2 - MRS400 or MRS450 4.3 - Water main 4.4 - Series 2 only, Blue for Drinking Water and Purple for No-Drinking Water refer POP203 4.5 - SBR & EPDM	Iplex	Apollo Blue	DN100 to DN300	Series 2 PN16, Min SN 10 MRS400 or MRS450		SP USE ONLY	Use is subject to acceptance by SP	NOT ACCEPTED BY SP					
270			Vinindex	Supermain											
271			Micron Pipelines	Micron Pipelines	DN100 - DN375										
272					Pipemakers	Alphamain	DN100 to DN150		Use is subject to acceptance by SP						
273	DICL pipe	200 4.1 - All Pressure Classes - see Column F 4.2 - As per Standards 4.3 - As per accepted product 4.4 - All fittings to be Fusion Bonded Polymeric Coated 4.5 - Restraint Joint Seals by approval 4.6 - SBR and EPDM 4.7 - PE sleeving is required on ALL DI pipes, including those with zinc-aluminium alloy coating, unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	Viadux	Tytonxcel	DN250 - 750 (not 225)	PN 20	Seal coat on pipes >= 450 PN20 - Use is subject to acceptance by SP PN20 PVC-M and PN35 DI/DICL are preferred pipes for carriageways and industrial/commercial areas.	Seal coat on pipes >= 450 PN20 - Use is subject to acceptance by SP Use of Vinindex LINX and ZAP products is subject to acceptance by SP	Seal coat on pipes >= 450 PN20 - Use is subject to acceptance by SP Use of Vinindex LINX and ZAP products is subject to acceptance by SP	NOT ACCEPTED BY SP	Seal coat on pipes >= 450 Seal coat requirement is dependant on water quality. PN20 - Use is subject to acceptance by SP Restraint joint seals not suitable for: PN20 pipe; Aboveground applications; Combining joint restraint and thrust blocks; Epoxy or fusion coated spigots (incl Tytonextreme pipe); Other manufacturers sockets or other pipe materials.				
274			Vinindex	LINX-GP											
275			Vinindex	ZAP-GP											
276				Viadux	Tytonexcel	Up to DN750 (not 225)				PN 35	Seal coat on pipes >= 450 PN20 - Use is subject to acceptance by SP PN20 PVC-M and PN35 DI/DICL are preferred pipes for carriageways and industrial/commercial areas.	Seal coat on pipes >= 450 PN20 - Use is subject to acceptance by SP Use of Vinindex LINX and ZAP products is subject to acceptance by SP	Seal coat on pipes >= 450 PN20 - Use is subject to acceptance by SP Use of Vinindex LINX and ZAP products is subject to acceptance by SP	Only accepted where PE is unsuitable. Seal coating required for all sizes Use of Vinindex ZAP products is subject to acceptance by SP	
277				Crevet / Iplex	Ironitite										
278				Vinindex	LINX-GP										
279				Vinindex	ZAP-GP										
280				Viadux	Flange Class										
281				Vinindex	LINX-GP										
282				Vinindex	ZAP-GP										
283				Saint-Gobain	Hydroclass Zinalium	DN100 – DN750 (not 225)				PN35, Flange Class				Only accepted where PE is unsuitable. Seal coating required for all sizes	Use is subject to acceptance by SP
284	DI Pipe - ISO	202 4.1 – K9-PN35 4.2 – Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp 4.3 –Restrained Joints on Zinc/Bitumen coated pipe 4.4 –Polyurethane without seal coating 4.5 - Only Polyurethane coating on aerial pipes 4.6 – SBR, EPDM or NBR 4.7 - PE sleeving is required on ALL DI pipes, including those with zinc-aluminium alloy coating, unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment	VonRoll / Reece	Ducpur/ Ecopur	DN80 - 700	Polyurethane internal protection	Detector Tape for ISO Pipe spirally wound along pipe and over PE sleeve on Zinc/Bitumen pipe. PN20 PVC-M and PN35 DI/DICL are preferred pipes for carriageways and industrial/commercial areas.	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP				
285	Small DN Ductile Iron Water Main pipe at PE OD's		Saint-Gobain PAM	BLUTOP	DN75-DN160	Restrained Joints PN16 Unrestrained joints PN25	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP				
286	SCL pipe	203 4.1 - MPa 1.6 minimum 4.2 - DN by Design subject to SP approval 4.3 - Seal Coat required for DN450 and larger 4.4 - Sintakote minimum for above ground 4.5 - Joint requirements by Design 4.6 - Cathodic Protection by design 4.7 - Standard pressure tests 4.8 - Sintapipe lining option 4.9 - SBR & EPDM 4.10 - Sintakote minimum	Steel Mains	Sintakote	OD114, 168, 219, 257, 273, 324 to 2159.	Minimum thickness DN100 - 4.8 mm, >DN100 - 5 mm	Accepted for sizes >DN600	Accepted for sizes >DN600	Accepted for sizes >DN600	Only accepted where PE is unsuitable	Seal Coat requirement is dependant on water quality				
287	PE pipe	207 4.1 - PN16 SDR11 PE100 4.2 - Drinking and Non-Drinking Water 4.3 - Pipes lengths for DN160 and larger and coils accepted for DN110 and smaller 4.4 - Mains Colour Blue Solid for Drinking Water and Purple solid for Non-Drinking Water with Water Service pipe Black with Blue Stripes for Drinking Water and Purple solid for Non-Drinking Water, refer POP203. 4.5 - PE100 only	Iplex		OD25 32 40 50 63 90 125 180 250 315 355 450 560 630 800	PE100 PN16 Blue colour - solid or striped for drinking water Purple colour - solid for non-drinking water For directional drilling installations, minimum SDR 9 (PN20 PE100) unless specified otherwise and install with SS316 tracer wire. Pipe wall thickness to be designed for installation forces.	1 - Used as Water Service pipe at DN25 and DN32 recommend PE80B pipe (DN50 and DN63 by CoGC) 2 - Used as Drinking Water main at DN63 and DN110 in Dual Water Supply 3 - Used as A+ Non Drinking Water main for Cul-de-sac terminal end at DN63 in Dual Water Supply 4 - Used as Drinking Water main for Cul-de-sac terminal end at DN63 in traditional Drinking Water Reticulation	*Approved for water services and water mains <= DN63 only. Other uses, or the use of larger diameters, are subject to acceptance"	Use is subject to acceptance by SP	PE is preferred pipe material for single and dual water supply systems - PE shall be used unless specific site conditions dictate otherwise. Either solid or striped colours are permitted for single and/or dual water supply systems.					
288			Vinindex												
289			DMG												
290			Cromford	Identi-pipe											
291			Poly Pipe												
292			Viadux	Advantage/TYCO10											
293			Enviropipes	Enviropressure											
294	ACP	ACP				Use is subject to acceptance by SP			Use is subject to acceptance by SP	Use is subject to acceptance by SP					
295	PE pipe - High Stress Crack Resistant (HSCR) Polyethylene Pipe	207, POP016 4.1 - PN16 minimum 4.2 - Drinking and Non-Drinking Water 4.3 - Pipes lengths for DN160 and larger and coils accepted for DN110 and smaller 4.4 - Mains Colour Blue Solid for Drinking Water and Purple solid for Non-Drinking Water with Water Service pipe Black with Blue Stripes for Drinking Water and Purple solid for Non-Drinking Water, refer POP203. 4.5 - HSCR PE100 only	Iplex	Millennium HSCR PE	DN25 32 40 50 63 90 125 180 250 315 355 450 560 630 800	For directional drilling and pipe bursting installations, minimum SDR 9 (PN20 HSCR PE100) unless specified otherwise and install with SS316 tracer wires. Pipe wall thickness to be specified as normal PE100 as such "extra" strength should be provided.	1 - Used as Water Service pipe at DN25 and DN32 recommend PE80B pipe (DN50 and DN63 by CoGC) 2 - Used as Drinking Water main at DN63 and DN110 in Dual Water Supply 3 - Used as A+ Non Drinking Water main for Cul-de-sac terminal end at DN63 in Dual Water Supply 4 - Used as Drinking Water main for Cul-de-sac terminal end at DN63 in traditional Drinking Water Reticulation	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP					
296	Copper pipe	214 4.1 - Annealed for all pipe 4.2 - Natural pipe colour	Port Kembla Copper				Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use is subject to acceptance by SP				
297	CC-GRP (centrifugally cast) pipe and Fittings - Water main	237 4.1 - PN16 minimum 4.2 - SN 10,000 minimum 4.3 - Sp-Sp RRJ Coupling and FI Joints 4.4 - Standard Glass 4.5 - SBR & EPDM	Superlit / Clover Pipelines	Superlit	DN400 - DN1400	Minimum SN10000, PN16	Use is subject to acceptance by SP DI Fittings preferred	Use is subject to acceptance by SP DI Fittings preferred	Use is subject to acceptance by SP DI Fittings preferred	Use is subject to acceptance by SP	Use is subject to acceptance by SP				

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						Oct 2017	ACCEPTED CIVIL PRODUCTS AND MATERIALS				
	A	B	C	D	E	F	G	H	I	J	K
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	Gold Coast Water and Waste	Logan City Council	Redland City Council	QUU	Unitywater
298	FW-GRP (filament wound) pipe and Fittings - Water main	205 4.1 - DN300 and larger 4.2 - PN16 minimum 4.3 - SN 10,000 minimum 4.4 - Standard bend forms permitted 4.5 - Sp-Sp RRJ Coupling and FI Joints 4.6 - Standard Glass 4.7 - SBR & EPDM	Flowtite / Iplex	Flowtite	DN300 - DN3000	Minimum SN10000, PN16	Use is subject to acceptance by SP DI Fittings preferred	Use is subject to acceptance by SP DI Fittings preferred	Use is subject to acceptance by SP DI Fittings preferred	Use is subject to acceptance by SP	Use is subject to acceptance by SP
299			Global Pipe	Fiberstrong	DN300 - DN4000						
300			Superlit / Clover Pipelines	Superlit	DN300 - DN3000						
301	Stainless Steel Pipe	No WSA-SP WSAA Materials Fact Sheet No:2 Selection of Stainless Steels WSAA Materials Fact Sheet No:3 Fabricating Stainless Steels	ASSDA accredited fabricators	N/A	DN100 - DN750	Min. Grade 316 Min. PN16 Flange to AS4087 Fig B5	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						Oct 2017	ACCEPTED CIVIL PRODUCTS AND MATERIALS							
	A	B	C	D	E	F	G	H	I	J	K			
	Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	Gold Coast Water and Waste	Logan City Council	Redland City Council	QUU	Unitywater			
1	Category: WATER SUPPLY FITTINGS - PRESSURE													
302	Lightweight DI bends, tees/branches & connectors	201 4.1 - Soc-Soc, Soc-Fi & Fi-Fi 4.2 - PN16 fittings 4.3 - By approval 4.3 - SBR & EPDM	Viadux	Auslite	DN100 & DN150	Lightweight fittings Thermal bonded polymeric coating All DI fittings to be wrapped	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use of Restrained Joint Rubber Rings (Tyton-lok) subject to acceptance by SP			
303			Dobbie Dico	Dobbie	DN100 to DN150									
304			Himigiri Castings/Galvin Engineering / CivilPipes	Galvin	DN100 & DN150									
305	DI bends, tapers, tees/branches, connectors, risers & caps/blank ends	201 4.1 - Soc-Soc, Sp-Sp, Fi-Fi, Soc-Sp, Soc-Fi & Sp-Fi 4.2 - Standard and PN16 fittings 4.3 - Restraint Joint Seals by SP approval 4.4 - SBR & EPDM	Viadux	Tyton Joint	Up to DN750	Thermal bonded polymeric coating All DI fittings to be wrapped					Use of Restrained Joint Rubber Rings (Tyton-lok) subject to acceptance by SP			
306			Crevet / Iplex	Crevet										
307			Vinindex	Superlink										
308			Derwent		DN100 & DN150									
309			Gillies											
310			Himigiri Castings/Galvin Engineering / CivilPipes	Galvin	DN80 to DN300									
311			Dobbie Dico	Dobbie	DN100 to DN250			Use is subject to acceptance by SP						
312			Mallet	Mallet	DN80 to DN750									
313	DI mechanical couplings - Non End Thrust Restraint	270 4.1 - PN16 4.2 - All pipe materials except PE 4.3 - Long Series 4.4 - Straight Soc-Soc 4.5 - Stepped coupling require SP approval 4.6 - Flange end not used 4.7 - SBR & EPDM And SS316 bolts, nuts and washers	Viadux	Gibault Ezigib & Vari-Gib	Up to DN750	Long type All DI fittings to be wrapped DI must have thermal bonded polymeric coating								
314			Crevet	Gibault & Universal Multigib										
315			AVK	Gibault & Universal										
316			Viking Johnson	MaxiFit, QuickFit	DN80 to DN750									
317			Derwent											
318			DEKS	DEKS FLEXI-GIB										
319			Daemco	Reinoversal	Up to DN 600			Use is subject to acceptance by SP						
320														
321	DI mechanical couplings - End Thrust Restraint (Gripper Type)	271 4.1 - PN16 4.2 - DI 4.3 - Short and Long Series 4.4 - Straight and Stepped and Flange Adaptor 4.5 - All DN Range options 4.6 - Flange Figure as specified with SS316 bolts, nuts and washers 4.7 - SBR & EPDM & Nitrile And SS316 bolts, nuts and washers	Hawle / Hygrade Water	Synoflex PN16 Restraint coupling for AC, PVC, DICL, SCL	DN50-DN300					Use of Synoflex is not accepted on PVC and GRP pipe materials	The use of gripper type fittings on AC, PVC, DI and SCL pipe subject to acceptance by SP			
322			+GF+	Multijoint 3000 Plus restraint type for AC, PVC, DICL, SCL										
323			Nova Siria/Hygrade Water	Multigrip for all pipe material, For PVC and PE pipes use Nova Siria reinforcing liner inside the pipe when installing multigrip	DN350-DN1400					Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
324	DI flanged telescopic flexible fitting	No WSA-PS Aligned to WSA_PS 201 and 270 with Flanges to AS 4087 Figure B5 To comply with WSA PS-201S when published	Hawle / Hygrade Water	Vario WSA PA 12/09	DN50 - DN200					Use is subject to acceptance by SP				
325	Small DN Ductile Iron Restraint Fittings at PE ODs		Saint-Gobain PAM	IZIFIT	DN75-DN160	For use directly with PE and BLUTOP pipe.	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP			
326	Pretapped connectors	201 4.1 - Soc-Soc only 4.2 - Standard and PN16 fittings 4.3 - Restraint Joint Seals by approval 4.4 - SBR & EPDM DN100 to DN150 with 4 x 20BSP tappings at 2 per side and DN200 to DN300 1 x 50BSP tapping	Viadux	Readytap	DN100 to 300	Thermal bonded polymeric coating	Use is subject to acceptance by SP	SP USE ONLY	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP			
327			Crevet / Iplex	Pretapped	DN100 & DN150									
328			Vinindex	Superlink	DN100 & DN150									
329			Himigiri Castings/Galvin Engineering / CivilPipes	Galvin	DN100 & DN150	DN100 to DN150 with 4 x 20BSP tappings at 2 per side and DN200 to DN300 1 x 50BSP tapping	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP			
330		246 4.1 – Blue or Black for DW and Purple for NDW	4N Products & Stockbrands	Supertap	DN100 & 150	Only used on Series 2 PVC pipe Not suitable for DI pipe WSAA Appraisal 12/18		SP USE ONLY		Use is subject to acceptance by SP				
331	316 SS repair clamps, flanged off- take clamps & BSP tapping clamps	313 4.1 - Type R or F by SP approval 4.2 - Pipe DN by SP approval 4.3 - Off-take DN by approval 4.4 - Min. PN16	Crevet	Wang	DN100 to DN300	Min. PN16. Flanged off-take clamps approved on DI and CI host pipes only, to Pipe manufacturers specifications	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP					
332			Viadux	Wang	DN100 to DN300									
333			Cascade Control	Rapid Clamps	DN40 to DN350									
334			Daemco	Norma Connect	DN80 to DN300							Only repair clamps accepted. For non-PE pipes only	Only repair clamps accepted	
335	Repair Couplings	270 4.1 - PN16 4.2 - All pipe materials 4.3 - Short and Long Series 4.4 - Straight and Stepped 4.5 - All DN Range options 4.6 - Flange end not used 4.7 – EPDM, NBR, Neoprene And SS316 bolts, nuts and washers	Nova Siria/Hygrade Water	Duofit	DN 300 - DN2000		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP			
336	Flange DI off-take clamps	327 4.1 - Pipe DN63 and larger (see WSA PS 207 above) - Off- take ID 20 mm minimum 4.2 - PN16 4.3 - Female Rp thread to AS ISO 7.1 4.4 - Without electrical Isolation	Hawle/Hygrade Water	Haku	DN110 to DN355	For use on PE pipe only, installed and commissioned in accordance with manufacturers recommendations	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP					
337	Resilient Seated Gate Valves, thermal bonded polymeric coating.	260 4.1 - PN16 4.2 - All End configurations accepted 4.3 - Integral By-pass on DN450 and larger (Unitywater accepts either integral or constructed by-pass as per job specification) 4.4 - Gear Box on DN600 and larger (refer mechanical list) 4.5 - Clockwise for opening 4.6 - No requirement for spindle cap colour 4.7 - Extension Spindle to WSA PS - 262 4.8 - Spindle Cap 4.9 - SBR & EPDM	AVK	Series 57 (light type only for DN100 & 150) Series 570 Series 36/80 Series 01/71 Series 55	Up to DN400 Up to DN400 Up to DN300 Up to DN300 DN450 to 600	Anchor legs approved PE Pipe ended approved Gripper ends approved	DN500 and DN600 with DN100 By-pass DN750 with DN150 By-pass Use of Sureflow Auslite III is subject to acceptance by SP			Use is subject to acceptance by SP	Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.			
338			Hawle / Hygrade Water	E2 FL Ends E2 System 2000 A Valve FL & SOC Ends	DN50 - 200 DN50 - 300 DN80 - 200	WSAA Appraisal 11/23 WSAA Appraisal 06/07								
339			Viadux	Series 500 Auslite Auslite II Bayard Sureflow Auslite III	Up to DN600 DN80, 100 & 150 DN100 to DN300 DN50 - DN200 Up to DN 400	Anchor Legs approved With PE pipe tails approved								
340			Karon / Challenger	Karon	DN80 - DN600									
341			AVFI			Use is subject to acceptance by SP								
342			Betta	BETTA	DN100 - DN375									
343			AAP Industries	Maxiflo/appFLO	DN80 to DN300	WSAA Appraisal 11/26 Issue 2				Use is subject to acceptance by SP	Use is subject to acceptance by SP			
344			Derwent Industries	Derwent	DN80 - DN600	WSAA Appraisal 1511								
345			DAEMCO		DN80 to DN300	WSAA Appraisal 1517 (10/05/16)				NOT ACCEPTED BY SP				

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						Oct 2017	ACCEPTED CIVIL PRODUCTS AND MATERIALS										
	A	B	C	D	E	F	G	H	I	J	K						
	Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	Gold Coast Water and Waste	Logan City Council	Redland City Council	QUU	Unitywater						
1																	
346	Butterfly Valves	263 4.1- PN16 4.2- resilient seated wafer, lugged or double flanged	Pentair / Viadux	Keystone	DN50-600 for wafer/ lugged DN100-1000 double flanged	Body ductile iron with fusion bonded polymeric coating external to 300 µm, internal to 350 µm (min.) or high-build two-pack epoxy to 500 µm (min.). Disc stainless steel Grade 316. Shaft stainless steel Grade 316, 410, 420, 430 or 431. Seat EPDM. All fasteners stainless steel Grade 316. Operation Type: Lever or Gearbox. Gearbox ratio as per manufacturer's requirement, coating – high build two-pack Epoxy 275 µm (min.)	DN100 to DN250 Property Service valves are lugged and Anti-clockwise closing hand lever operated. DN375 and larger valves are double flanged and Anti-clockwise closing gearbox operated.	Use is subject to acceptance by SP Direction of closing: Anti-clockwise	Use is subject to acceptance by SP Direction of closing: Anti-clockwise	Use is subject to acceptance by SP	Direction of closing: Clockwise Wafer or Lugged valves not accepted without prior approval						
347			Ebro	Ebro													
348			AVFI	AVFI													
349			Valveco	Valveco			Accepted wafer or lugged DN50 to DN300				Use is subject to acceptance by SP						
350			Iplex	AVK													
351			Challenger	Challenger													
352			Hydroflow Distributors	Watts			Use is subject to acceptance by SP				Use is subject to acceptance by SP	Use is subject to acceptance by SP					
353	Hydrants	267 4.1 - DN80 and DN100 Flanges	Hydrants	Series 30/00 non-swab and 30/10 for swab		Removable Top Cap & Internal Assembly. Thermal bonded polymeric coating. Purple body and lug for recycled water.	DN80 Flange to A.S.4087 Fig B5 Purple Body and Lug for A+ Recycled water Swabbing type at main ends refer SEQ-WAT-1302-1	DN80 Flange to A.S.4087 Fig B5 Swabbing type at main ends refer SEQ-WAT-1302-1	DN80 Flange to A.S.4087 Fig B5 Swabbing type at main ends refer SEQ-WAT-1302-1	Swab type only accepted DN100 flanged to AS 4087 Fig B5. 100 mm hydrant riser shall be used. For PE system, additional to DN125, a DN90 PE riser may be used with Plasson slotted flange adaptor set.	All new hydrants are to be 100 mm with 100 mm flanges, 100 mm risers and spring heads						
354			Viadux	Sureflow						Use is subject to acceptance by SP		Use is subject to acceptance by SP	NOT ACCEPTED BY SP				
355			Civil Pipe Supplies	BETTA normal & Swab								NOT ACCEPTED BY SP					
356			AAP Industries	MAXIFLO/appFLO			Use is subject to acceptance by SP		All new hydrants are to be 100 mm with 100 mm flanges, 100 mm risers and spring heads								
357			Derwent Industries	Derwent non-swab													
358			Dobbie Dico														
359	Hydrant and air valve isolator's valves	No WSA-PS Aligned to WSA_PS 201 and 270 with Flanges to AS 4087 Figure B5 To comply with WSA PS-201S when published	AVK		DN80 - DN100	Thermal bonded polymeric coating Min. PN16		DN80 Flange to AS4087 Fig B5 Swabbing type at main ends refer SEQ-WAT-1302-1	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Mandatory for Hydrants on Trunk Water mains >DN300 Isolator Valve for Hydrant - Min. DN100 Clockwise Opening Direction						
360			Viadux														
361			Crevet														
362	Valve box & cover C.I.	No WSA-PS Refer details on SEQ-WAT-1305-1 and SEQ-WAT-1306-1	Viadux			Bitumen coated to AS 3750.4	Water Service Boxes for footpath and roadway shall be as per Item 41 of 11-133 and as shown on 11-134 of meter standard drawings										
363			NIBF / Iplex														
364			Tellam														
365			Gatic / Iplex														
366	Hydrant box & cover C.I.	No WSA-PS Refer details on SEQ-WAT-1305-1 and SEQ-WAT-1306-1	Viadux			Bitumen coated to AS 3750.4											
367			NIBF / Iplex														
368			Tellam														
369			Gatic/Iplex														
370	Valve & hydrant boxes (recycled plastics) & DI Covers	No WSA-PS Refer details on SEQ-WAT-1305-1	Viadux			Non-trafficable location only. H - Hydrants V - Valves AV - Air valve	Coloured to SEQ-WAT-1300-1 and SEQ-NDW-2309-1	Coloured to SEQ-WAT-1300-1	Coloured to SEQ-WAT-1300-1	Coloured to SEQ-WAT-1300-1, SEQ-NDW-2122-1 and SEQ-NDW-2125-2	Coloured to SEQ-WAT-1300-1 and SEQ-NDW-2209-1						
371			Crevet														
372			Vinidex														
373	Plastic surround to valve/hydrant boxes	No WSA-PS For sizes refer details on SEQ-WAT-1306-1	Replas Australia			Non-trafficable location only.	Coloured to SEQ-WAT-1300-1 and SEQ-NDW-2309-1	Coloured to SEQ-WAT-1300-1	Coloured to SEQ-WAT-1300-1	Coloured to SEQ-WAT-1300-1, SEQ-NDW-2122-1 and SEQ-NDW-2125-2	Coloured to SEQ-WAT-1300-1 and SEQ-NDW-2209-1						
374	Valve extension spindles	262 4.1 - DN100 to DN525/600 4.2 - Length by Design 4.3 - Valve extension spindles shall be coated with a polymeric coating to AS 4158 with 350 µm DFT (minimum), or Valve extension spindles shall be hot-dip galvanized in accordance with AS 4680. Spindle support with bearing at 1 per installation minimum and at 1.8 m max spacings	Viadux			AS2638 Compliant	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP						
375			NIBF / Iplex														
376			Forge Bros / Vinidex														
377			Challenger														
378	Flanges MS	204 - Flanges 4.1 - PN16 minimum 4.2 - DN by Design subject to SP approval 4.3 - Flanged 4.4 - Seal coating for DN450 and larger 4.5 - Sintakote minimum for above ground 4.6 - Flanged at PN16 minimum 4.7 - Cathodic Protection by design 4.8 - Sintapipe lining option 4.9 - SBR & EPDM 4.10 - Sintakote minimum	Steel Mains			Class 16 Thermal bonded polymeric coating											
379			NIBF / Iplex														
380	Flange gaskets and 'O' rings	312 4.1 - PN16 min or as per Design 4.2 - Gasket as Standard with O-ring for required steel flanges 4.3 - Types WA, WC and WG subject to fluid needs 4.4 - DN as per design 4.5 - Material as per Standards 4.6 - Hardness as per range in Table 2 of WSA 109-2011 4.7 - Thickness of 3.0 mm at PN16 and 1.5 mm at PN35	All WSA PS-312 compliant products are accepted														
381	Bolts	No WSA-PS Refer details on SEQ-WAT-1313-1				316 Stainless steel bolts											
382	PE mechanical compression fittings for reduced size water mains	208 DN63 2.(a) - AS/NZS4129 or EN 1254 acceptable Certification 4.1 - PN16 minimum 4.2 - Mechanical Polyethylene or Copper Alloy both with approved Plastic grippers/olives/thimbles 4.3.1 - Transition - PE to Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4.3.2 - Coupling - PE to PE 4.4 - Flange not used 4.5 - SBR & EPDM	George Fischer		DN63	PN16	Only fittings with a Copper Alloy body and a Copper Alloy compression nut are approved for use	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP							
383			Philmac / Philmac & Vinidex														
384			Plasson														
385			Talbot														
386			Alprene														
387			Iplex														
388	Viadux		Use is subject to acceptance by SP				Use is subject to acceptance by SP										
389	PE Fittings (for mains and large service pipes)	208 DN63 and larger 2.(a) AS/NZS4129 or EN 1555 or EN 12201 or EN 13244 is acceptable. 4.1 - PN16 minimum 4.2 - Electrofusion and butt weld 4.3 - Couplings, tees, bends, elbows/adjustable elbows, end caps, stub flanges, saddles, reducers 4.4 - AS 4087 compatibility for mating flange 4.5 - SBR & EPDM	Plasson		Coupler up to DN710	Comply with AS4129, PN16, Electrofusion fittings to be long type. Stub flanges only to be used for sizes DN450 and larger	Accepted for DN63 and DN110	Accepted for DN63 and DN110	Accepted for DN63 and DN110	Flanged tees and flanged saddles are not accepted by SP	Spigot ended fittings, flanged tees and flanged saddles are not accepted by SP						
390			Georg Fischer	ELGEF Plus Draw - Lock	DN250-560 with branch DN32-90												
391			Friatec / Vinidex	Frialen													
392			Agru	Agru	Coupler up to DN630		Use is subject to acceptance by SP	Accepted for DN63 and DN110									
393			Fusion Group / FusionPlast	Fusamatic	Up to DN630												
394			NUPIGECO	Elofit	DN20 to DN710												

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						Oct 2017	ACCEPTED CIVIL PRODUCTS AND MATERIALS							
	A	B	C	D	E	F	G	H	I	J	K			
	Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	Gold Coast Water and Waste	Logan City Council	Redland City Council	QUU	Unitywater			
1														
395	Full face PE flanges (for reticulation sizes)	208 DN63 and larger 2.(a) - AS/NZS4129 or EN 12201, EN 13244 or EN 14525 acceptable Certification 4.1 - PN16 minimum 4.2 - Electrofusion or Butt Weld 4.3 - Full Face Flange Adaptor with SS316 backing ring 4.4 - AS 4087 "Figure" compatibility for mating flange 4.5 - Refer "Flange Gaskets and 'O' Rings" above	Plasson		DN80 / DN100	DN90 riser with slotted flanges suit both DN80 & DN100 flanged hydrants to WSAA 98/50	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use of stub flanges is subject to acceptance by SP			
396			Iplex		Up to DN355	Full face full bore connections								
397			Friatec / Vinidex	Frialen	Up to DN180	Metal insert in the flange, backing rings not required				Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
398				216 4.1 - PN16 minimum 4.2 - Butt Weld pipe joint with Full Face Flange Adaptor with SS316 backing ring and AS 4087 "Figure" compatibility for mating flange	Rodney / Vinidex	Maxi Stub	Up to DN355	Full face full bore connections	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use of stub flanges is subject to acceptance by SP	
399	DI Restraint fittings (for PE) - couplings, flange adaptors, tees, bends, end caps	245 Joining to PE Pipe only 2.(a) - EN 12201, EN 13244 or EN 14525 acceptable Certification 2.(b) - Plastic fittings not permitted 4.1 - PN16 4.2 - SBR & EPDM seal options with AS 4087 "Figure" compatibility for mating flange with WSA PS 312 gasket	Hawle / Hygrade Water	System 2000 Synoflex	Up to DN630	Restraint type, Flange adaptor up to DN355 shall be full bore connection				Only accepted for use where welded joints are not practical	Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.			
400			+GF+	Multi/Joint 3000	Up to DN355									
401			AVK	Supa Plus	Up to DN315									
402					Viking Johnson / Philmac					AquaFast AquaGrip	Up to DN630		Use is subject to acceptance by SP	
403	PE scour Tees	216 4.1 - PN16 minimum 4.2 - Electrofusion/Butt Weld pipe joint with Full Face Flange Adaptor with SS316 backing ring and AS 4087 "Figure" compatibility for mating flange on outlet	Vinidex / Rodney			Comply with AS4129	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP					
404			Kingston Bridge / Iplex											
405	Air valves	265 Appendix B AS 4956 Size - DN20 and Larger Class - PN16 Type of Port - Full and Reduced Port Type of Valve - As per Design Hydraulic Data - As per Design Materials - DN20 and DN25 permitted with Plastic body. All other sizes End Connections - BSP Threaded or AS 4087 Flange with "Figure" compatibility to mating Flange	ARI Flow control		DN50-DN200	PN16, Double Orifice as required, Thermal bonded polymeric coating	DN40 and DN50 BSP threaded to have Brass base	DN40 and DN50 BSP threaded to have Brass base.	DN40 and DN50 BSP threaded to have Brass base.	Use is subject to acceptance by SP				
406			Bermad											
407			Vent-O-Mat											
408			AVFI	DAV-MH				NOT ACCEPTED BY SP	Use is subject to acceptance by SP		NOT ACCEPTED BY SP			
409			ISCO	Vent Master PX										
410	Non-return valves - Swing check with counterweight lever arm	264 Refer Appendix B of AS4794 a) Class - PN16 min - Size by Design b) Medium - Water c) Installation - Horizontal d) Spindle - Extended e) Lever and Counterweight minimum with switches and indicators by Design i) Flanged to AS 4087 Figure B5	HMA Valveco	Valmatic Swing-flex	DN50 - DN600	Min. PN16, Thermal bonded polymeric coating	NOT ACCEPTED BY SP	Only use valves with capacity for lever arm to open and close the valve AVK and Dobbie Dico are acceptable CHALLENGER and other valves without lever arm NOT ACCEPTED BY SP	Use is subject to acceptance by SP		NOT ACCEPTED BY SP			
411			Dobbie Dico	Dobbie Dico	DN80-DN900									
412			AVK	AVK Swing Check Valve 41/25	DN50					Use is subject to acceptance by SP				
413			AVK	AVK Swing Check Valve 41/8X	DN80-DN300									
414			Challenger Valves	Challenger - RSSC	DN80-DN375		NOT ACCEPTED BY SP			Use is subject to acceptance by SP				
415			AVFI Pty Ltd	AVFI - RSFC	DN50-DN300									
416	Non-return valves - free acting (without counterweight) Swing Check	264 Refer Appendix B of AS4794 a) Class - PN16 min - Size by Design b) Medium - Water c) Installation - Horizontal d) Spindle - Extended i) Flanged to AS 4087 Figure B5	HMA Valveco	Valmatic Swing-flex	DN50 - DN600	Min. PN16, Thermal bonded polymeric coating	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use is subject to acceptance by SP			
417			Dobbie Dico	Dobbie Dico	DN80-DN900									
418			AVK	AVK Swing Check Valve 41/25	DN50									
419			AVK	AVK Swing Check Valve 41/8X	DN80-DN300									
420			Challenger Valves	Challenger - RSSC	DN80-DN375					Use is subject to acceptance by SP				
421			AVFI Pty Ltd	AVFI - RSFC	DN50-DN300									
422	Pressure reducing valves	268 See Appendix B of AS5081:2008	Bermad Water Technologies	Bermad	DN40 - DN900	Min PN16, Thermal bonded polymeric coating	Dorot 300 Series for Pressure Reducing Valve and for associated Pressure Relief Valve (Dump Valve) Dorot 200 Series or Bermad IR-43Q Valve	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP (In PRV installations where upstream pressures can be within 50 kPa of the required downstream pressure, Plasson C valves are preferred).			
423			Singer / HMA Valveco	Singer										
424			Plasson Australia Pty Ltd	Plasson C-Valve										
425			Dorot Australia Pty Ltd	Dorot 300 Series										
426			Cla-Val Pacific / Challenger	Cla-Val	DN25-DN1200									
427	Pressure sustaining valves and altitude valves	268 See Appendix B of AS5081:2008	Bermad Water Technologies	Bermad	DN 40 - DN900	Min PN16, Thermal bonded polymeric coating	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP			
428			Singer / HMA Valveco	Singer										
429			Dorot Australia Pty Ltd	Dorot 300 Series	DN25-DN1200 (Sustaining)									
430			Cla-Val Pacific / Challenger	Cla-Val	DN-80-DN1200 (Altitude)									
431	PE Flex Restraint Fitting (used as puddle flange)		+GF+		Up to DN1600	E-F type follow manufacturer's requirements.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP					
432			Plasson		Fits DN160 to DN1600 PE Pipe	PE100/ PE4710 resin				Use is subject to acceptance by SP				
433	Dismantling joints for Flange Pipe and Fittings	201 4.1 - FI-FI for DJ & FI/Sp for UniFlange 4.2 - Thrust type and non-thrust type minimum PN16 4.3 - Thrust Restraint by Fitting 4.4 - SBR & EPDM	Viadux			Thrust restraint type and non-thrust type are Flanged to AS4087 PN16. SS316 bolts, nuts and washers. Larger sizes of UniFlange shall be assessed for available Fitting PN vs Pipeline Test Head.	For Mains only, restrained type only	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Uni-flange to be used within pit or aboveground locations only			
434			Viking Johnson				For Meter Assemblies only, restrained type only							
435			Valveco	Uni-Flange Adaptor	DN50-DN500		Use is limited - refer to SP for advice							
436			Hygrade Water	Pipemate	DN80-DN900		For Meter Assemblies only, restrained type only							
437			AVFI	AFD10 Series	DN80-DN1200		For Mains only, restrained type only							
438			AVFI	AFD20 Series	DN80-DN1200		For Meter Assemblies only, restrained type only							
439	Flowmeter - Network Meter	No WSAA PS 4.1 - Flange to AS4087 Figure 5 4.2 - PN16	ABB	ABB				Use is subject to acceptance by SP		NOT ACCEPTED BY SP	ABB Water master			
440			Siemens	Siemens				Use is subject to acceptance by SP		NOT ACCEPTED BY SP	Use is subject to acceptance by SP			
441			E & H	E & H				E & H 53W		E & H Promag W400	Use is subject to acceptance by SP			
442			Emerson	Emerson				Use is subject to acceptance by SP		NOT ACCEPTED BY SP				

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	A	B	C	D	E	F	G	H	I	J	K		
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	Gold Coast Water and Waste	Logan City Council	Redland City Council	QUU	Unitywater		
443	Category: WATER SERVICES												
444	Tapping bands for DI & PVC pipes	310 4.1 - DN100 to DN300 4.2 - Without Electrical Isolation 4.3 - Female Rp thread to AS ISO 7.1	Viadux			Gunmetal - Positive stops	NOT ACCEPTED BY SP		SP USE ONLY	RMC tapping band also accepted on AC pipe			
445			Gatic / Milne										
446			RMC										
447			4N Products & Stockbrands	4N	DN100, 150, 200	Positive stops, coloured blue WSAA Appraisal PA10/18							
448	Tapping bands for PE - mechanical	327 4.1 - Pipe DN63 and larger (see WSA PS 207 above) - Off-take ID 20 mm minimum 4.2 - PN16 4.3 - Female Rp thread to AS ISO 7.1 4.4 - Without electrical Isolation	Gatic / Milne		DN63-DN315	Gunmetal - Positive stops Only for where E-F saddles are not practicable	NOT ACCEPTED BY SP		SP USE ONLY		NOT ACCEPTED BY SP		
449			4N Products & Stockbrands	4N	DN63, 90, 125 & 180	Positive stops, coloured black Only for where E-F saddles are not practicable WSAA Appraisal PA10/19							
450			Hawle / Hygrade Water	Haku	DN63 - DN315	Ductile iron lower half	Use is subject to acceptance by SP				NOT ACCEPTED BY SP		
451			Hawle / Hygrade Water	Haku	DN250 - DN630	Stainless steel strap lower half							
452	Tapping saddle for PE - electrofusion	329 329.2.(a) - EN Standards accepted 4.1 - Pipe DN63 and larger (see WSA PS 207 above) - Off-take ID 20 mm minimum 4.2 - PN16 4.3 - Combined Saddle and Outlet off-take with integral cutter/shut off 4.4 - Without electrical Isolation	Plasson		DN63, 90, 125 & 180	Comply with AS4129 PN16	Accepted for DN63 and DN110	SP USE ONLY	Accepted for DN63 and DN110				
453			George Fischer										
454			Friatec / Vinidex	Frialen									
455			Fusion Group / FusionPlast	Fusamatic	Up to DN355	Use is subject to acceptance by SP	Flanged saddles are not accepted by SP			Spigot ended fittings, flanged tees and flanged saddles are not accepted by SP			
456	Ferrules - TPFNR Bonnet Ferrule Cocks	No WSA-PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3718 and AS 3688. 2 - PN16 with ability for under pressure tapping 3 - Male R thread to AS ISO 7.1 4 - Outlet fitting PE to WSA PS 207 or Copper to WSA PS 214 5 - DN50 to include 90 degree bend with union connection to AS3688 at outlet	Gatic / Milne			Dezincification resistant material and comply with AS/NZS 3688			SP USE ONLY				
457			Elster										
458			RMC										
459	Ball valves - Water Service	274 4.1 - PN16 minimum 4.2 - Plastic not permitted, Body and Handle to be DR copper alloy 4.3 - By accepted product 4.4 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 or PE Compression 4.5 - 90 Degree closure with 38 mm handle for maintap and 50 mm handle for meter. Meter ball valve with Locking open/close function 4.6 - Water Supply Property Service	Gatic / Milne			Dezincification resistant material and comply with AS/NZS 3688	Accepted for DN20 & DN25 Ball Valves with integral PE connections shall have a Copper Alloy body and a Copper Alloy compression nut for the pipe connection	Accepted for DN20 and DN25 at meter end of services	Accepted for DN20 & DN25		Ball valves must be capable of being locked by the customer with their own padlock.		
460			Elster									Use is subject to acceptance by SP Accepted for DN20 and DN25 at meter end of services	
461			RMC										
462			Zetco TOF										
463			Cimberio / Strongcast	Strongcast									
464			Austworld	LOGI VALVE									
465	Union stopcock	No WSA-PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3718 and AS 3688. 2 - PN 16 3 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4 - Watermark acceptance	Gatic / Milne			25 mm Dezincification resistant material and comply with AS/NZS 3688	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP				
466			Elster										
467			RMC										
468	Slip Coupling	No WSA-PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3565.1, AS 3718 and AS 3688. 2 - PN 16 3 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4 - Watermark acceptance 5 - Coupling to have 5mm to 20mm movement with locking nut	Elster		DN20 and DN25	Dezincification resistant material and comply with AS/NZS 3688 Shall have a locking nut to prevent moving apart or kinking between the moving parts		Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
469			All Valve Industries		DN20								
470			RMC										
471			Strongcast										
472			Austworld										
473	Transition couplers	208 or 247 Up to DN63 2.(a) - AS/NZS4129, EN1254 or equivalent acceptable Certification 4.1 - PN16 minimum 4.2 - Mechanical Polyethylene or Copper Alloy both with approved Plastic grippers/olives/thimbles 4.3.1 - Transition - PE to Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4.3.2 - Coupling - PE to PE not used 4.4 - Flange not used 4.5 - SBR & EPDM	Plasson			PE electro-fusion to BSP connections Copper male fittings connecting to poly female fittings is not accepted			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
474			+GF+										
475			Friatec / Vinidex										
476	PE mechanical compression fittings for Small Diameter Water Service pipes	208 or 247 DN25 to DN63 2.(a) - AS/NZS4129, EN1254 or equivalent acceptable Certification 4.1 - PN16 minimum 4.2 - Mechanical Polyethylene or Copper Alloy both with approved Plastic grippers/olives/thimbles 4.3.1 - Transition - PE to Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4.3.2 - Coupling - PE to PE 4.4 - Flange not used 4.5 - SBR & EPDM	George Fischer		DN25 to DN63	PE to PE or PE to BSP PN16 Push fit type is not accepted	Only fittings with a Copper Alloy body and a Copper Alloy compression nut are approved for use		Use is subject to acceptance by SP	Use is subject to acceptance by SP			
477			Philmac / Philmac & Vinidex										
478			Plasson									Use is subject to acceptance by SP	
479			Elster										
480			Zetco TOF										
481			Talbot										
482			Alprene										
483			Iplex										
484			Viadux					Use is subject to acceptance by SP		Use is subject to acceptance by SP			
485			NUPIGECO	Elopress									
486			Austworld	Metforge	DN25 & DN 32						PE pipe stands not accepted by SP	Use is subject to acceptance by SP	
487	Meters - 20 mm (direct and sub-metering applications)	No WSA-PS 1 - NSC/NMI Pattern Approved 2 - AS 3565.1 Certified 3 - Integral Strainer 4 - Std Tail Nut with gasket 5 - Colour and Check Valve requirements as per SEQ-SP requirements	Elster	V100 (PSM-T) (WM202PD)		Purple body for non-drinking water Accuracy Class 2	Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Horizontal orientation only. Not permitted to be used for Hard Wired AMR systems utilising Reed Switches. Not to be used for sub-meters. NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Only accepted for above ground installation	NOT ACCEPTED BY SP		
488			Elster	V200									
489			Itron	TD8									
490			RMC	WM273MRP multijet									
491			RMC	WM281MRP multijet									
492			GVT	TPWM									
493	Meters - 25 mm (direct and sub-metering applications)	No WSA-PS 1 - NSC/NMI Pattern Approved 2 - AS 3565.1 Certified 3 - Integral Strainer 4 - Std Tail Nut with gasket 5 - Colour and Check Valve requirements as per SEQ-SP requirements	Elster	V100 (PSM-T) (WM252PD)		Purple body for non-drinking water Accuracy Class 2	Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Horizontal orientation only. Not permitted to be used for Hard Wired AMR systems utilising Reed Switches. Not to be used for sub-meters.	Use is subject to acceptance by SP	Only accepted for above ground installation	NOT ACCEPTED BY SP		
494			Elster	V200									
495			Itron	TD8									
496			RMC	WM271MRP multijet									

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	Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	Gold Coast Water and Waste	Logan City Council	Redland City Council	QUU	Unitywater
1											
497	Meters - 32 mm (direct and sub- metering applications)	No WSA-PS 1 - NSC/NMI Pattern Approved 2 - AS 3565.1 Certified 3 - Integral Strainer 4 - Std Thread for attachment of a AS3565.1 Clause 2.6 (DR) Copper Alloy Oval Flange with two Bolts 5 - Colour and Check Valve requirements as per SEQ-SP requirements	Elster	V100 (PSM-T)		Purple body for non-drinking water Accuracy Class 2 Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	NOT ACCEPTED BY SP		Use is subject to acceptance by SP		
498			Elster	V200							
499			Itron	TD8							
500			RMC	MRP						NOT ACCEPTED BY SP	
501	Meters - 40 mm (direct and sub- metering applications)	No WSA-PS 1 - NSC/NMI Pattern Approved 2 - AS 3565.1 Certified 3 - Integral Strainer 4 - Std Thread for attachment of a AS3565.1 Clause 2.6 (DR) Copper Alloy Oval Flange with two Bolts 5 - Colour and Check Valve requirements as per SEQ-SP requirements	Elster	V100 (PSM-T)		Purple body for non-drinking water Accuracy Class 2 Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Horizontal orientation only. Not permitted to be used for Hard Wired AMR systems utilising Reed Switches. Not to be used for sub-meters.		Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
502			RMC	WM402MRP multijet							
503			Itron	Flostar M			Horizontal orientation only				
504	Meters - 50 mm and larger (direct and sub- metering applications)	No WSA-PS 1 - AS 3565.1 Certified 2 - Std integral Round Flange as per AS3565.1 Clause 2.5 to AS4087 Figure B5 with four Bolts 3 - Colour and Check Valve requirements as per SEQ-SP requirements	Elster	H4000 Woltmann		Purple body for non-drinking water Accuracy Class 2 Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy			Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
505			Elster	H5000 Woltmann			Use is subject to acceptance by SP			Above ground installation with external top accessible (basket type) inline strainers	
506			Arad / RMC	Woltman Silver Turbo			Horizontal orientation only			NOT ACCEPTED BY SP	
507			Itron	Flostar M			Use is subject to acceptance by SP			Above ground installation with external top accessible (basket type) inline strainers	
508			Itron	Woltex						NOT ACCEPTED BY SP	
509			Sensus	Meistream						Only accept Meistream Plus meter installed above ground with external top accessible (basket type) inline strainers	
510	Flowmeters	No WSA-PS 1- Flange to AS4087 Figure 5 2- PN16	Arad Ultrasonica / RMC	Octave		Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Arad Octave Ultrasonic and Siemens Sitrans FM Mag 8000 acceptable	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
511			Siemens Eletromagnetic	Siemens				Use is subject to acceptance by SP		Siemens Mag 8000 Advanced	Use is subject to acceptance by SP
512			Siemens Ultrasonic	Siemens				Use is subject to acceptance by SP		NOT ACCEPTED BY SP	Use is subject to acceptance by SP
513			E & H Electromagnetic	E & H				E & H Promag 53W	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
514			E & H Ultrasonic	E & H				Use is subject to acceptance by SP		Use is subject to acceptance by SP	Use is subject to acceptance by SP
515			Emerson	Emerson				Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
516			ABB	ABB				Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Water master
517	Automatic Meter Reading (AMR) Systems (sub-metering applications)	Meter reading dials shall have between 0 kL and 10 kL of consumption showing at the time of meter supply	Enware			Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Hard-wired systems only. Only Elster Reed Switches to be used. One DER (digital electronic read outs) panel per building. NOT ACCEPTED BY SP			NOT ACCEPTED BY SP	Only Reed switches from the meter manufacturer and repeaters supplied from the AMR supplier are accepted NOT ACCEPTED BY SP
518			Epitomy								
519			Utility Technology								
520			Halytech								
521			Utiligy								
522			Itron							Everblu	
523	SUMS	Vivid Multi Logger									
524	Meter boxes	No WSA-PS 1 - Lids Virgin HDPE with Box Virgin and/or regrid HDPE 2 - Lid in Box at Class A to AS 3996 3 - Lid shall have a slip resistant pattern that is certified to AS/NZS4586 for Table 2 (Class W) and Table 5 (Classification R11). 4 - Lids shall snap-lock into the box and shall include a metal device for Location and a separate 2 mm Galvanised Chain or 2 mm SS304 wire rope fixed to the lid and box. 5 - The Lid shall have moulded on it's upper surface Water Meter and shall be coloured as per SEQ-SP's requirements.	Everhard Industries		368L * 271W * 316D (for 20 mm meters only)	Blue, Black or Green meter box lids	Blue Lid not permitted	Blue Lid not permitted	Blue Lid not permitted	NOT ACCEPTED BY SP	Purple lid for non-drinking water meter box Black or green lid for drinking water meter box Blue lid not permitted
525			Everhard Industries	492L * 271W * 316D							
526			Draper	440L * 275W * 280D							
527			Strongcast	427L * 267W * 316D							
528	Single check detector check valves	No WSA-PS 1 - Single Check valve to AS/NZS 2845.1 2 - Fitted with compliant meters as per above	Pentair/Viadux	VALVCHEQ	DN100 & DN150	Model SC03. Flanged connection & spring set to 50 kPa	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Fitted with top accessible (basket type) inline strainer	
529	Double check valve (DCV), Double check detector assembly (DCDA)	No WSA-PS AS/NZS 2845	Pentair/Viadux	VALVCHEQ	DN40, 50, 100 & 150		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
530			Bermad	Cla-Val							
531			Hydroflow Distributors	Watts							Use is subject to acceptance by SP
532	Pre-assembled dual meter boxes	No WSA-PS 1 - Approved Supplier Assemblies as per SEQ-SP requirements	Elster		DN20	Drinking & Drinking or Drinking & Non-drinking Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Install pre-assembled dual boxes as per SEQ-WAT-1106 set as well	Subject to Approval of SP	Install approved pre-assembled boxes as per SP requirements	NOT ACCEPTED BY SP	Use is subject to acceptance by SP
533			Tellam								
534			RMC	KIT235 WMKIT235					Use is subject to acceptance by SP		
535	Pre-assembled single meter boxes	No WSA-PS 1- approved Supplier Assemblies as per SEQ-SP requirements	Strongcast	SCMBA20	DN20	Drinking Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Install pre-assembled single boxes as per SEQ-WAT-1106 set as well	Install approved pre-assembled boxes as per SEQ-WAT-1110 set	Install approved pre-assembled boxes as per SP requirements		Use is subject to acceptance by SP
536			Elster							V200 meter only. No slip coupling	
537			Tellam						Use is subject to acceptance by SP		
538			RMC	KIT236 WMKIT236					NOT ACCEPTED BY SP		
539	Sub-meter assemblies	No WSA-PS 1 - Approved Supplier Assemblies as per SEQ-SP requirements	Elster	46492-00	DN25	Drinking or Non-drinking Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Accepted with slip coupling	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	Only accepted with no slip coupling	Slip Coupling not accepted
540			Elster	46491-00			Use is subject to acceptance by SP		Install approved sub-meter assemblies as per SP requirements		
541			Tellam				Accepted with slip coupling		Install as per CoGC Sub-Meter Guideline		
542			All Valve	SMA20M	Use is subject to acceptance by SP		Use is subject to acceptance by SP	Install approved sub-meter assemblies as per SP requirements	NOT ACCEPTED BY SP		
543			Strongcast	SCMLIM20							
544			Austworld	SMK							
545				KIT227	Accepted with slip coupling		Use is subject to acceptance by SP	Use is subject to acceptance by SP			
546			RMC	KIT227Q	Use is subject to acceptance by SP						

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						Oct 2017	ACCEPTED CIVIL PRODUCTS AND MATERIALS				
	A	B	C	D	E	F	G	H	I	J	K
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	Gold Coast Water and Waste	Logan City Council	Redland City Council	QUU	Unitywater
547	Dual Check valves for Meter assemblies DN40 and Larger	No WSA-PS 1 - Certified to AS/NZS 2845.1 2 - Non-Testable 3 - PN16 and Flanged to AS4087 Figure B5 4 - Ductile Iron body with AS4158 coating and lining or SS316 body or SS304 body if SS316 unavailable	Pentair/Viadux	VALVCHEQ		Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy	Alternatively figure DC03 double check valves are acceptable	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
548			Hydroflow Distributors	Watts			Use is subject to acceptance by SP				Use is subject to acceptance by SP
549	Reduced pressure zone device (RPZD), Reduced pressure detector assembly (RPDA)	No WSA_PS AS/NZS 2845	LWG Zurn	Model 375						Any brand with ISO Type 5 product certification to AS2845 is accepted	UW prefers RP03 RPZ
550			RMC								
551			Pentair/Viadux	RP03							
552			Hydroflow Distributors	Watts			Use is subject to acceptance by SP		Use is subject to acceptance by SP		Use is subject to acceptance by SP
553	Pressure Limiting Valve for Water Services	No WSA-PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3718 and AS 3688. 2 - PN 16 3 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 4 - Watermark acceptance 5 - Set point 50 m	RMC		DN15 – DN50	Dezincification resistant material and comply with AS/NZS 3688 Stainless Steel seat Not buried	Not used - Private Plumbing facility	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
554			NEFA								
555			Hydroflow Distributors	Watts							Use is subject to acceptance by SP

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE						Oct 2017	ACCEPTED CIVIL PRODUCTS AND MATERIALS				
	A	B	C	D	E	F	G	H	I	J	K
1	Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	Gold Coast Water and Waste	Logan City Council	Redland City Council	QUU	Unitywater
556	Category: WATER SUPPLY MISCELLANEOUS ITEMS										
557	Detectable marker tape	318 4.1 - Tape/Product Colour - Drinking Water = Blue Non-Drinking Water = Purple. Sewerage = Cream 4.2 - Message = "Caution ASSET DESCRIPTION Buried Below" or "Danger Buried ASSET DESCRIPTION Below" 4.3 - SS 316 tracer wire 4.4 - See 4.1 above	Boddingtons								
558			Tapex								
559			LWG Zum								
560			Rain Harvesting	421			Use is subject to acceptance by SP				
561	Tracer wire	343 4.1 - CCS shall be AISI 1055 grade or higher 4.2 - Wire gauge Shall be 12 or thicker 4.3 - Minimum 520Kg 4.4 - Minimum 45mil 4.5 - minimum 1% 4.6 - as per standards 4.7 - as per standards 4.8 - Blue for Water Supply, Purple for Recycled Water and Cream for Pressure Sewer.	Tapex	Copperhead	500, 1000 and 2500 (feet)	Approved are SoloShot EHS and SoloShot Xtreme For HDD and Pipe bursting etc. Components of test station, connector and grounding anode are accepted					
562	Loose PE sleeving to DI pipe	320	Viadux	BLUEBOSS blue		Mandatory sleeving to all DI pipe					
563			Crevet			Colours are Blue for Drinking Water and Purple for Non Drinking Water to POP203					
564	PVC - M conduits	209 4.1 - PN12 4.2 - Water Service Conduit 4.3 - Series 1 SCJ 4.4 - White for Water Conduit 4.5 - SCJ only	Vinidex	Hydro S1		PN12 Series 1		LCC also accepts 100 dia uPVC PN9 Series 1			UW requires uPVC PN9 series 1 with solvent weld joint- Refer drawing SEQ-WAT-1108-1.
565			Iplex								
566			Viadux								
567	Embedment material - crushed rock	351 4.1 - Single sized. 4.2 - Nominal 5 or 7 mm									
568	Embedment material - recycled concrete	366 4.1 - Single sized 10 mm nominal 4.2 - Moisture Content by design	Queensland Recycling				NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		NOT ACCEPTED BY SP
569	Bedding sand	AS/NZS 2566.2 Table G3 for sand.					Main pipe use is subject to acceptance by SP Service pipe use mandatory	Main pipe use is subject to acceptance by SP Service pipe use mandatory	Main pipe use is subject to acceptance by SP Service pipe use mandatory		
570	Concrete	357 4.1 - N20 for Thrust Blocks and Unreinforced embedment. N25 for reinforced embedment 4.2 - Slumps as required for placement				Normal class					
571	Security fencing					AS1725.1 Chain Link Fabric Fencing-powder coated black	Fence details generally to CoGC Standard Drawing 05-014	Fence details generally to CoGC Standard Drawing 05-014	Fence details generally to CoGC Standard Drawing 05-014	Use is subject to acceptance of SP	In accordance with Unitywater's specification Pr9903 – Specification for Building and Structural Works, Section 5.15 Security Fencing.
572	Casing Spacers	324 4.1 - Carrier pipes OD from 100mm to 1668mm 4.2 - Min space between carrier pipes and encasing pipes 50mm	kwik-ZIP	kwik-ZIP	HDX Series with Runner height of 38, 65, 90 and 125 mm	For SCL, DI, PE, PVC, Concrete, GRP and FRP carrier pipes					
573	Plastic marker post	1- Comply with Main Roads specification MRS11.14	Park International		1350 mm Long x 100 mm Wide x 4 mm Thick	As per SEQ-WAT-1300-2					
574	Kerb Markers	No WSA - PS	All products meeting the specified requirements are accepted		Brass at DN40 (cast-in) or SS at DN38 (cast-in or Pin set) with 22 high lettering	As per SEQ-WAT-1300-1				Only Brass markers accepted for conduit markers	Only Brass markers accepted
575	Camlock					S/Steel 316					Maximum DN100
576	Category: EMERGENCY STORAGE CHAMBERS										
577	Emergency Storage Chamber	402 2.(a) – WSA 129:2011 (or equivalent) 4.1 to 4.4 – Requirements to be specified by SEQ-SP on a case-by-case basis.	Envirotank Pty Ltd	Envirotank - Water/Wastewater Tank	From 4.8 m x 1.2 m dia. (5kl) to 16.4 m x 3.0 m dia. (110kl)	Fibreglass construction As per SEQ-SPS-1402-1	Use Accepted - 30 Year Warranty	Use Accepted - 30 Year Warranty	Use Accepted - 30 Year Warranty	Use is subject to acceptance by SP	Use Accepted - 30 Year Warranty
578			Rocla	Concrete Detention System	Conc. Box units (2.4 m modules) Conc. Pipe units (2.44 m modules)	Reinforced Concrete - Sacrificial layer or Plastilined As per SEQ-SPS-1402-1	CoGC accepts only PE lined Pipe	LCC accepts only PE lined Pipe	RCC accepts only PE lined Pipe		UW accepts only PE lined Pipe
579			Humes								
580			Rocla	Plastic Detention System 'Plastream'	1.5 m to 2.25 m dia (10kl to 250kl)	PE spirally wound steel-reinforced pipe As per SEQ-SPS-1402-1	Use is subject to acceptance by SP	Use is subject to acceptance by SP			NOT ACCEPTED BY SP
581			Chemstore Group	Hydrosave	From 1.2 m to 3.5 m dia and 2.5 m to 20 m length	Fibreglass construction As per SEQ-SPS-1402-1		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use Accepted with condition of 30 Year Warranty & Providing access opening of larger size about 1200 mm opening
582			Aquatec Fluid Systems	Aquatec Fibreglass Storage Vessels	From 1 m to 4 m dia and 1 m to 20 m length	Fibreglass construction As per SEQ-SPS-1402-1			Use accepted - Warranty acceptable to SP to be provided		
583			Tank Solutions	Mullaly	1470mm to 3275mm in diameter 3.3m to 15m in length	Fibreglass construction As per SEQ-SPS-1402-1		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP
584			Polynex	Polynex	From 600mm to 3000mm in diameter	Double walled HDPE As per SEQ-SPS-1402-1	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use Accepted - Minimum 20 year warranty