A	В	C	D	E	F	G	П		J	K
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
Manufacturer/Supplier Products r Size Range Size ranges need to b Blank Cells In the five columns un 'Use is subject to acceptance by	SAA Product Specifications are available from www.wsaa.asn.au. may be sourced from alternative Suppliers than those listed provide re read in conjunction with the relevant clauses of the SEQ version dder the service provider's names cells that are blank indicate that SEP. Contact the service provider to determine if the use of this p ure systems shall be PN16 or PN35 complying with AS4087.	led that the products are manufactures of the WSAA Codes (e.g. Water State product listed on that row are an	red by a Manufacturer whose name Supply Code Clause 3.1.1; Sewera cceptable to the service provider.	e, and the products' trade na	ame, appear on the list.					
Category: SEWER	RAGE PIPES AND FITTINGS - NON	PRESSURE								
4		Iplex	DWV PIPE							
<u>-</u>	230	Vinidex	DWV SEWER	DN100 150 225 300 375			DN100 at SN6 minimum, DN150 and larger at			
PVC-U pipe and fittings - DWV system	4.1 - Plain Wall 4.2 - Elastomeric Seal	Viadux	D-FLO		Plain wall only accepted	DN100 at SN6 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum	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
7 DVVV system	4.3 - Stiffness as per 230.2.(c) or as required by SP 4.4 - RRJ @ SBR & EPDM	Micron Pipelines	Micron Pipelines			SINS and Modided Fittings at SINS minimum		SN8 and Moulded Fittings at SN6 minimum		Fittings at SN8 minimum
8	4.4 - NNO & ODN & EP DIW	Pipemakers	Pipemakers	DN100 - DN300			Use is subject to acceptance by SP			
	211	Iplex	·				, , , ,			
9 PVC-U Pressure pipe Sewer	4.1 - PN12 4.2 - Deep Sewers or Minimum Cover	ipiex								Mandatory for sewers deeper than 3 metres and
using Standard DWV Junctions	4.3 - Standard Packaging & Delivery	Vinidex		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	for sewers with minimum cover All details to be confirmed with SP
11	4.4 - Series 1 4.5 - RRJ @ SBR & EPDM	Viadux								7 iii detaile to be committed with of
12	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	
DI pipe	200 and WSAA TN6 4.1 - PN35 4.2 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp 4.3 - CAC cement lining 4.4 - Zinc/Bitumen coating 4.5 - By design 4.6 - SBR and EPDM	Viadux Crevet / Iplex	Tytonxtreme Irontite	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
15	4.0 - SBK and EPDM 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	Saint-Gobain	Integral Zinalium	DN100 - 750		pH1 version accepted				Use is subject to acceptance by SP
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	9	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Sintapipe accepted in applications where steel pipe is specified.	
17	240	Vinidex	SewerPRO	DN150 - 900						
Polypropylene (PP) pipe	4.1 - Type B - ID Series 4.2 - SN10,000	Iplex	SewerMAX	DN225 - 600	1				NOT ACCEPTED BY SP	
19	4.3 - RRJ @ SBR & EPDM	Enviropipes	EnviroPipe	DN150 - 900			Use is subject to acceptance by SP	Use is subject to acceptance by SP		Use is subject to acceptance by SP
20	207	Iplex	POLIplex							
21	4.1 - Minimum PN8 SDR21 PE100 4.2 - Gravity Sewer fully welded	Vinidex	Sewertech							
PE pipe - NuSewers	4.3 - Pipes lengths for DN160 and larger with coils accepted for		Hi-Vis	DN110 160 250 315 400		NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	PE is mandatory pipe for reticulation sewers, PE is	
2.0	DN110 4.4 - External colour light grey Solid or Striped with Internal	Viadux	C	500 630 800 1000 1200					preferred pipe for larger sewers	
24	colour white or light colour, see POP203 4.5 - PE100 only	Poly Pipe Enviropipes	SewerFlex Enviropressure							
20	4.5 1 E 100 Olly	George Fischer / Ipex	Enviropressure							
<u>26</u>	208	Friatec / Vinidex			1					
27	4.1 - PN10 preferred	Plasson	Lightfit							
28	4.2 - Electrofusion or butt welding 4.3 - Couplings and Saddles	Agru	AGRU			NOT ASSETTED BY OR	NOT ADDEDTED BY OR	NOT ACCEPTED BY OR		
PE fittings - Moulded	4.4 - Bolting Flanges not required. 4.5 - Elastomeric Seals not permitted	Agiu	Acito		Electrofusion fitting to be long type.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
	And Electrofusion fitting Standards AS4129, EN1555, EN12201, EN13244-4	Fusion Group/FusionPlast	Fusamatic	Up to DN630					Spigot ended fittings, flanged tees and flanged saddles are not accepted by SP.	Use is subject to acceptance by SP
0	EN12201, EN13244-4	NUPIGECO	Elofit	DN110 to DN630					Use is subject to acceptance by SP	
11		NOTICESO	Lion	DIVITO IO DIVOCO					Osc is subject to acceptance by or	
	216 4.1 - PN10 preferred	Vinidex			Electrofusion fitting to be long type.					
PE fittings - Fabricated	4.2 - Electrofusion or butt welding Including Sweep Bends, MH Connectors, Sediment Traps, Tee and Bends for drop pipes and Sweep Junctions.	lplex			PE MH connectors shall have Hydrophilic seals both sides of puddle flange.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
34	231	Hepworth	Supersleeve							
VC pipe	4.1 - DN100/150 Crushing Strength 34, DN225 and larger Class 160	Steinzeug Keramo	Keramo	DN100-1200					Use is subject to acceptance by SP	May only be used as jacking pipes
100	4.2 - Sp-Soc and Sleeve Coupling 4.3 - All seal materials accepted	Naylor / Rocla	Denlok						May only be used as jacking pipes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
6	201 4.1 - Sp-Soc ends to serve PVC-U DWV pipe	Crevet	Bernok							
DI IO bends or X Drop fitting	4.1 - sp-soc ends to serve PV-0 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	Viadux		_					Use is subject to acceptance by SP	NOT ACCEPTED BY SP
~	235	Flancourt	Flori Cont.	He 4- DMOOO						
Metal-banded flexible coupling	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 DEKS	Flex-Seal DEKS shear banded coupling	Up to DN600 DN100 to DN225				Use is subject to acceptance by SP	Use is subject to acceptance by SP	
	270	Vioden	Gibault Esigib 9 Vi-ii							
1	4.1 - PN16	Viadux	Gibault - Ezigib & Varigib							
DI mochanical countings No. 5-	4.2 - All pipe materials except PE 4.3 - Long Series	Crevet	Gibault & Universal							
DI mechanical couplings - Non End Thrust Restraint	4.4 - Straight Soc-Soc 4.5 - Stepped coupling require SP approval	AVK Viking Johnson	Gibault & Universal MaxiFit & QuickFit							
5	4.6 - Flange end not used	Viking Johnson Derwent	IVIANIFIL & QUICKFIL	-						
6	4.7 - SBR & EPDM And SS316 bolts, nuts and washers	DEKS	DEKS FLEXI-GIB	DN80 to DN600	1			Use is subject to acceptance by SP		
4	1		1	1 11 11 11000	1		1	1	1	<u> </u>

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Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
47 Reinforced Concrete pipe	4.1 - Class 4 4.2 - Bends not permitted 4.3 - In corrosive soils coat external face with 250 micron DFT High Build Epoxy	Rocla							Use is subject to acceptance by SP	Use is subject to acceptance by SP
48	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	Humes								
49 Polycrete pipe	No WSA-PS 4.1 - Class to suit design 4.2 - Bends not permitted 4.3 - Compilance with ASTM D 6783, DIN 54815-1 and DIN	lplex	Meyer pipe	DN200 to 2600					Use is subject to acceptance by SP	Use is subject to acceptance by SP Coupling Grade 316 Stainless Steel (min.)
50	54815-2 4.4 - SBR and EPDM Sewer Pipe and Jacking Pipe approved	Global Pipe	Al Watani							Coupling Grade 3 to Stainless Steel (film.)
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				
52	205S 4.1 - As per product 4.2 - PN1	Flowtite / Iplex	Flowtite	DN300 - DN3000						
FW-GRP (filament wound) pipe and Fittings - Sewer Pipe	4.3 - SN10,000 minimum 4.4 - Bends, T-piece, Y-piece, Saddles, Reducers, Flanges and MH Couplings 4.5 - Soc-Sp RRJ	Global Pipe	Fiberstrong	DN300 - DN4000	Sewer Pipe	Use is subject to acceptance by SP				
54	4.6 - Standard Glass 4.7 - SBR & EPDM	Superlit / Clover Pipelines	Superlit	DN300 - DN3000						
55	205J 4.1 - As per product 4.2 - Pressure Class by design 4.3 - Stiffness Class by design	Hobas / Global Pipe	Hobas	DN250 - DN3600	_					
CC-GRP (centrifugally cast) pipe and Fittings - Jacking Pipe	4.4 - Jacking Load by design 4.5 - 316 Stainless Steel (min) or GRP couplings 4.6 - SBR & EPDM	Empire Infrastructure	BOSSPIPE	DN300 - DN2000	Jacking pipes	Use is subject to acceptance by SP				
57	Pipe Lengths to manufacturers requirements Standard Glass	Superlit / Clover Pipelines	Superlit	DN400 - DN1400						
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			
59		lplex	Flap valve Reflux valve fabricated	DN50 to DN300	-					
60 61 Non-return valves	No WSA-PS	Vinidex	Flap valve	DN50 to DN100	-	Use is subject to acceptance by SP				
62		Hygrade Water	WaStop Non-return valves	DN75 to DN200						
63		Fluid Control	Red valve - Tideflex check valves	DN50 to DN2400						
64 65		Pentair Challenger	Keystone Challenger		Body stainless steel Grade 316. Gate stainless steel					Subject to meeting the corrosion resistance
66 67 Knife gate valve - Stainless Steel	266 4.1 - PN10	AVFI HMA Valveco	AVFI HMA Valveco	Up to DN600	Grade 316. Gland Follower stainless steel Grade 304 or 316. Spindle stainless steel grade 304 or 316.	Use is subject to acceptance by SP		Use is subject to acceptance by SP		requirements in Column F
37 Krille gate valve - Stalliless Steel	4.2 - Wafer or Lugged 4.3 - Clockwise closing, rising spindle	AVK	HIMA Valveco	Op to DN600	Yoke/Pillar/Bridge stainless steel Grade 304 or 316. Seat EPDM, NBR, RTFE or Viton. All fasteners stainless steel	Ose is subject to acceptance by SF		use is subject to acceptance by SF	Use is subject to acceptance by SP	
68		(Note: This is the only vendor complying with 316 SS throughout)	AVK		Grade 316.					
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				
70		Pentair	Keystone		Body and Gland Follower ductile iron with fusion bonded					
71 Knife gate valve - Ductile iron body	266 y 4.1 - PN10	Challenger	Challenger	Up to DN600	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	Use is subject to acceptance by SP		Use is subject to acceptance by SP	Use is subject to acceptance by SP	
72	y 4.2 - Wafer or Lugged 4.3 - Clockwise closing, rising spindle	AVFI	AVFI	-,	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.					
		AVK	AVK		or vitori. Aii rasteriers stairiless steel Grade 316.					

A	В	С	D	E	F	G	Н	I	J	К
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
Category: SEWEF	RAGE PIPES AND FITTINGS - PRES	SSURE								
5 6 7 PVC-M pipe	209 4.1 - PN16 4.2 - Sewer Rising main 4.3 - Series 2 only 4.4 - Cream refer POP203	Iplex Vinidex Viadux Micron Pipelines	BLUERHINO Hydro TUF-FLO Micron Pipelines	DN100 150 200 225 250 300 & 375 DN100 - DN300			Use is subject to acceptance by SP		Use is subject to acceptance by SP	NOT ACCEPTED BY SP
0	4.5 - SBR & EPDM 210 4.1 - PN16 4.2 - MRS400 or MRS450	Pipemakers Iplex	Pipemakers Enviromain ApolloBLUE	DN100 150 200 225 250 300 & 375						
PVC-O pipe	4.3 - Sewer Rising main 4.4 - Series 2 only, Cream refer POP203 4.5 - SBR & EPDM	Vinidex Micron Pipelines	Supermain Micron Pipelines	DN100 - DN375	_			Use is subject to acceptance by SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP
13 14 15 16 17		Viadux Vinidex Vinidex Viadux	Tytonxcel LINX-GP ZAP-GP Tytonxtreme	DN250 - 750 (not 225)	PN20				NOT ACCEPTED BY SP	PN20 NOT ACCEPTED BY SP
67 17 18		Vinidex Vinidex Vinidex Viadux	LINX-HAC ZAP-HAC Tytonxcel		PN20, CAC lining for corrosive flows					
0		Crevet / Iplex	Irontite		PN35					
1		Vinidex	LINX-GP ZAP-GP		1.160					Restraint joint seals not suitable for: PN20 pipe;
3	200 and WSAA TN6 4.1 - All Pressure Classes - see Column F 4.2 - Seal Coat not required for Sewerage	Viadux	Tytonxtreme				Cement Mortar lining of any type is not permitted			Aboveground applications; Combining joint restraint and thrust blocks; Epoxy or fusion coated spigots (incl Tytonextren
DI pipe	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	Crevet / Iplex Vinidex	Irontite LINX-HAC	DN100 150 200 250 300	PN35, CAC lining for corrosive flows	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	within 5.0 metres of the HGL at pump stop. Alternative non-corrosive lining or pipe and fittings required.		pipe); Other manufacturers sockets or other pipe materials. Cement mortar lining of any type is not permitte
3	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	Vinidex Viadux	ZAP-HAC Tytonxcel	375 450 500 600 & 750 (not 225)		required.	Use of Vinidex LINX and ZAP products is subject to acceptance by SP	Use of Vinidex LINX and ZAP products is subject to acceptance by SP	Use is subject to acceptance by SP	at locations where there is a potential of the pip lining in contact with air/gas continuously or intermittently. At such locations, non-corrosive pipes or metal
17 18	comprehensive soil testing and risk assessment	Vinidex	LINX-GP		Flange Class					pipes with non-corrosive linings shall be used. All linings of pipes and fittings at such locations shall be non-corrosive.
3		Vinidex Viadux	ZAP-GP Tytonxtreme							
<u> </u>		Vinidex	LINX-HAC		Flange Class, CAC lining for corrosive flows					
12		Vinidex	ZAP-HAC		PN35 with CAC lining;	_				
)3		Saint-Gobain	Integral Zinalium	DN100 – DN750 (not 225						Use is subject to acceptance by SP
DI Pipe - ISO	2028 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-alluminum 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
05		Viadux	Tyton Joint	Up to DN750 (not 225)	-					Restraint joint seals not suitable for:
<u>6</u> 17		Crevet / Iplex Vinidex	Crevet Superlink	Up to DN750 (not 225) Up to DN750 (not 225)	-					PN20 pipe; Aboveground applications;
08 DI fittings - bends, tapers,	201 4.1 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp	Derwent		Up to DN750 (not 225)	Thermal bonded polymeric coating is the standard					Combining joint restraint and thrust blocks; Epoxy or fusion coated spigots (incl Tytonextren
tees/branches, connectors, risers (caps/blank ends)	4.2 - Standard and PN16 fittings 4.3 - Restraint Joint Seals by approval 4.4 - SBR & EPDM	Gillies Himgiri Castings/Galvin Engineering / CivilPipes	Galvin	DN100 & DN150 DN80 to DN300	material in WSA PS 201 and WSA PS212					pipe); Other manufacturers sockets or other pipe materials.
1		Dobbie Dico	Dobbie	DN100 to DN250			Use is subject to acceptance by SP			Use of Restrained Joint Rubber Rings (Tyton-lol subject to acceptance by SP.
Bolts	No WSA-PS Refer Standard Drawing SEQ-WAT-1313-1 etc.	Mallet	Mallet	DN80 to DN750	316 Stainless steel bolts	Refer Standard Drawing	Refer Standard Drawing	Refer Standard Drawing	SS316	Grade 316 Stainless Steel (min.)
14 316 SS repair and flanged off-take 15 clamps	4.3 - Off-take DN by approval	Crevet Viadux Cascade Control	Wang Rapid Clamps	DN100 to DN300 DN100 to DN300 DN40 to DN350	Min. PN16, 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	
Flange (DI) off-take clamps	4.4 - Min. PN16 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	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	cos la dissipor la acceptance by of	
18 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	Flex-Seal	Flex-Seal	Up to DN600			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use in out in the case of the Co	NOT ACCEPTED BY SP
9	4.2 - Metal band and bolts shall be min SS316 270 4.1 - PN16	DEKS Viadux	DEKS shear banded coupling Gibault - Ezigib & Varigib	DN100 to DN225					Use is subject to acceptance by SP	
21 DI mechanical couplings - Non En	4.2 - All pipe materials except PE 4.3 - Long Series	Crevet	Gibault & Universal							
Thrust Restraint	4.4 - Straight Soc-Soc 4.5 - Stepped coupling require SP approval	AVK Viking Johnson	Gibault & Universal MaxiFit, QuickFit			-				
<u>23</u> 24	4.6 - Flange end not used 4.7 - SBR & EPDM	Derwent								
<u>45</u>	And SS316 bolts, nuts and washers	DEKS	DEKS FLEXI-GIB	DN80 to DN600				Use is subject to acceptance by SP		

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Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
	271 for DI, 245 for PE 4.1 - PN16 4.2 - DI and PE	Hawle / Hygrade Water	System 2000 for PE Synoflex PN16 Restraint for AC, PVC, DICL, SCL, PE	·,					Only accepted for use where welded joints are no	t Use of Hawle System 2000 is subject to
DI mechanical fittings - End Thrust Restraint	t 4.3 - Short and Long Series 4.4 - Straight and Stepped and Flange Adaptor 4.5 - All DN Range options	AVK	Supa Plus Restraint for PE	DN50-DN300					practical Use of Synoflex is not accepted on PVC and GRI pipe materials	acceptance in Acid Sulphate Soils and Sali coastal environmental locations
(Gripper Type)	4.6 - Flange Figure as specified with SS316 bolts, nuts and washers 4.7 - SBR & EPDM & Nitrile	+GF+	Multi/joint 3000 Plus restraint type for AC, PVC, DI, SCL, PE	pe						The use of gripper type fittings on AC, PVC, E SCL pipe is subject to acceptance by SP
9	And SS316 bolts, nuts and washers	Viking Johnson	Aqaufast and Aquagrip Restraint for PE	ut					Use is subject to acceptance by SP	
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					Use is subject to acceptance by SP	
1	201	Viadux Viking Johnson			Thrust restraint type and non-thrust type are Flanged to	Restrained type only NOT ACCEPTED BY SP				
Dismantling joints for Flange Pipe	4.1 - FI-FI for DJ & FI/Sp for UniFlange 4.2 - Thrust type and non-thrust type minimum PN16	Viking Johnson Valveco	Uni-Flange Adaptor	DN50-DN500	AS4087 PN16. SS316 bolts, nuts and washers.	Use is limited - refer to SP for advice				Uni-flange to be used within pit or abovegrou
and Fittings	4.3 - Thrust Restraint by Fitting 4.4 - SBR & EPDM	Hygrade Water	Pipemate	DN80-DN900	Larger sizes of UniFlange shall be assessed for available	NOT ACCEPTED BY SP		Use is subject to acceptance by SP	Use is subject to acceptance by SP	locations only
35	4.4 - 3BR & EPDIVI	AVFI	AFD10 Series	DN80-DN1200	Fitting PN vs Pipeline Test Head.	Restrained type only	Restrained type only			
6		Iplex	POLIplex							
7	207	Vinidex	Sewertech							
8	4.1 - PN16	DMG	Hi-Vis	DN40 50 00 00 405 400	For directional drilling installations, minimum SDR 9				PE is preferred pipe material - PE shall be used	
PE pipe	4.2 - Sewer Rising main 4.3 - Coil pipe permitted up to DN125 with Pipe lengths for	Viadux		DN40 50 63 90 125 180 250 315 355 450 560 630	(PN20 PE100) unless specified otherwise and install with	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	unless specific site conditions dictate otherwise.	PE is preferred pipe material
10	larger DN 4.4 - Cream refer POP203	Poly Pipe	SewerFlex	800	SS316 tracer wire. Pipe wall thickness to be designed for installation forces.					
41	4.5 - PE100 only	Cromford	Identipipe	-						
42		Enviropipes ACP	Enviropressure ACP						Use is subject to accordance by CD	Use is subject to accordance by CD
43		ACP	ACP						Use is subject to acceptance by SP	Use is subject to acceptance by SP
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	lplex	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			
45		George Fischer								
45	208	Friatec / Vinidex	Frialen	DN63XDN32 to	1					
46	2(a) - AS/NZS4129 or EN1555 or EN12201 or EN13244 is	Friatec / Vinidex	Friaien	DN350XDN90	-					
47	acceptable 4.1 - PN16	Plasson								
PE fittings	4.2 - Electrofusion and butt weld	Agru	AGRU	Up to DN630	Electrofusion fitting to be long type. Stub flange 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		
40	4.3 - Couplings, Reducers, End Caps, Bends, Tees, Flange stubs 4.4 - Flanges & SS backing rings to AS/NZS 4087 Fig B5 or B7 4.5 - SBR & EPDM	Fusion Group / FusionPlast	Fusamatic	Up to DN630					Spigot ended fittings, flanged tees and flanged saddles are not accepted by SP	Use is subject to acceptance by SP
50		NUPIGECO	Elofit	DN20 to DN710						
50	208	Plasson		DN80/DN100	Slotted flanges & backing rings suit both DN80 and					Use of stub flanges is subject to acceptance by
51	4.1 - PN16 4.2 - Electrofusion and butt weld	lplex		Up to DN355	DN100 to WSAA 98/50 Full bore connections	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
Full face PE flanges	4.3 - Full Face Flange with SS backing ring 4.4 - Flange standard AS/NZS 4087 B5 or B7 4.5 - SBR & EPDM	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
53	216 4.1 - PN16	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		, , ,
54	4.2 - Electrofusion and butt weld 203 4.1 - MPa 1.6 minimum	Roulley / Villidex	Maxi Stub	Op to DNOSS	i di bole collinection	Ose is subject to acceptance by Gr	ose is subject to acceptance by Sr	Ose is subject to acceptance by Sr		
Steel pipe	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
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			
56		AVK	Series 57 (light type only for DN100 & 150) Series 570	Up to DN400 Up to DN200						
57	260 4.1 - PN16	AVIV	Series 36/80 Series 01/71 Series 55	Up to DN300 Up to DN300 DN450 to 600	For PE pipes PE gripper Sluice Valves by Hawle E2 System 2000 or					
58 Resilient seated gate valves,	4.2 - All End configurations accepted4.3 - Integral By-pass on DN450 and larger (Unitywater accepts either integral or constructed by-pass as per job specification)	Hawle	E2		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	DN600 and larger valves shall be DeZurik				Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.
thermal bonded polymeric coating	4.4 - Gear Box on DN600 and larger 4.5 - Anti-Clockwise closing	Viadux	Series 500	DNOOG BAIGGS	SPs).	Eccentric Plug Valves				
90	4.6 - No requirement for spindle cap colour	Karon / Challenger	Auslite II Karon	DN200 - DN300 DN80 - DN600	-					
60 61	4.7 - Extension Spindle to WSA PS - 262 4.8 - Spindle Cap	AVFI	Raion	2.100 211000	1				Use is subject to acceptance by SP	1
62 63	4.9 - SBR & EPDM	Betta	BETTA	DN100 - DN375	1				, , , , , , ,	Use is subject to acceptance by SP
		AAP Industries	Maxiflo/appFLO	DN80 to DN300	WSAA Appraisal 11/26 Issue 2					
64		Derwent Industries	Derwent	DN80 - DN600	WSAA Appraisal 1511					
65		DAEMCO		DN80 to DN300	WSAA Appraisal 1517 (10/05/16)	Use is subject to acceptance by SP		1	Use is subject to acceptance by SP	
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 Sutiable for sewage					

A	В	С	D	E	F	G	Н		J	K
	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
CC-GRP (centrifugally cast) pipe and Fittings - Sewer Pipe 4	237S 1.1 - PN1 1.2 - SN10,000 minimum 1.2 - Soc-Sp RRJ 1.4 - Standard Glass 1.5 - 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.)
8	205S 4.1 - As per product 4.2 - PN1	Flowtite / Iplex	Flowtite	DN300 - DN3000						
and Fittings - Sewer Pipe	4.3 - SN10,000 minimum4.4 - Bends, T-piece, Y-piece, Saddles, Reducers, Flanges and MH Couplings	Global Pipe	Fiberstrong	DN300 - DN4000	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.)
4	4.5 - Soc-Sp RRJ 4.6 - Standard Glass 4.7 - SBR & EPDM	Superlit / Clover Pipelines	Superlit	DN300 - DN3000						
1	No WSAA PS	ABB	ABB				Use is subject to acceptance by SP		NOT ACCEPTED BY SP	ABB Water master
Eleumeter Network Meter 4	1.1 - Flange to AS4087 Figure 5	Siemens	Siemens				Use is subject to acceptance by SP		NOT ACCEPTED BY SP	Use is subject to acceptance by SP
4	1.2 - PN16	E & H	E & H				E & H 53W		E & H Promag W400	Use is subject to acceptance by SP
ŧ		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 Civil IPAM List

Λ	PPLY AND SEWERAGE DESIGN AND C				May 2			1 1	1	UUCIS AND MATERIALS
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
Category: SEWER	RAGE MISCELLANEOUS ITEMS									
7	290 4.1 - DN600 4.2 - Round Solid Top (Conc Infill - QUU only) Watertight Type 'd' 4.3 - 600 mm Clear Opening 4.4 - Class B and Class D	East Jordan (Havestock)			Refer Standard Drawings.					
Maintenance structure covers, frames and risers	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	Webforge Tellam			Covers with another Service Provider's name not accepted. Use of Square and Rectangular Covers and Frames	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
<u> </u>	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				subject to SP approved based on Design needs					
1	4.13 - by Standards	Hygrade								
2	292 4.1-DN<=450 Round 4.2-DN360 min clear opening	Smartstream	Smartstream Top Hat- P8HDS		DI-Class D					
Maintenance shaft covers, frames and risers DN<=450	4.3-Standard Lifting Key 4.4-Markings to AS3996 Clause 1.6 (a) to (f) 4.5-Standard packaging	Smartstream	Smartstream Top Hat- P8PEC		PE - Class B			Use is subject to acceptance by SP	Use is subject to acceptance by SP	
	4.6-No specific markings required 4.7-No bolt down required	SYI Foundry/Aymroo	Aymroo	360 mm clear opening	CI - Class B					
5	292 4.1-DN>=600 Round 4.2-DN600 min clear opening	Terra Firma			Composite - Class B and D					Use is subject to acceptance by SP
Maintenance hole lightweight composite lids and frames (non- corrosive)	4.3-Standard Lifting Key 4.4-Markings to AS3996 Clause 1.6 (a) to (f) 4.5-Standard packaging	ACO SAKU			Composite - Class B	Non-Corrosive MH lids and frames are required for Discharge Manholes and all Manholes for sewers DN300 and larger	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
7	4.6-No specific markings required 4.7-Bolt down for Surcharge and overland flow areas, 2 x M8 min SS316 Bolts	Prime Composites			Composite – Class B and D					Use is subject to acceptance by SP
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 4.11 – No requirements 4.12 – Als Seat ring 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	
99	314	Miyama / Nextep	Miyama							
00 Step irons	4.1 - Single Step 4.2 - Complies with Figure 5.10 of AS1657 4.3 - Steel bar internal with Plastic encapsulation or SS316	Aymroo	Aymroo		M053	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		NOT ACCEPTED BY SP
01	4.4 - Plastic encapsulation or SS316 4.5 - No reflectors required	C & C Plastics / Havestock	Posistep			1017100211255101	1017100211255101	101700211223101		11017100211255101
2	4.6 - No other safety devices required	Industrial Steps & Ladders	Sure-Step							
93	315 4.1 - Type D - Fixed Ladder with two Stiles 4.2 - PBT, FRP, SS316, Galvanised Steel or Aluminium 4.3 - By Standards	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					
Ladders	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	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.	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		NOT ACCEPTED BY SP
95 16		Galvanised Steel Stainless Steel or Aluminium			Refer to Standard Drawings				Use is subject to acceptance by SP Aluminium not accepted	
97	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	Аутгоо	Aymroo		Configurations of "Central Axis" maintenance shaft					DN225 risers not accepted. Min DN300 risers a
Maintenance Shaft PVC	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 4.0 metres FSL to Top of Pipe	SMS	SMS # MS3 DN150 Only	DN225 PVC-U Riser Shaf	(CAMS) are not accepted		Refer to clause 6.7.2 of the SEQ Sewerage Cod	Refer to clause 6.7.2 of the SEQ Sewerage Code	NOT ACCEPTED BY SP	accepted.
Maintenance Shafts PE	322 4.1 - As per Standards 4.2 - As per Standards 4.3 - As per Stendards 4.4.3 - As per Standards 4.4.5 - Inlet and Outlet at DN150 to DN225 for PVC RIGSS 4.4.5 - Inlet and Outlet at DN160 to DN250 for PE Nusewer 4.5 - Configurations as shown in Standard drawings 4.6 - As per accepted product 4.7.7 - Inlet and Outlet PVC Sewer connection RRJ 4.7.5 - Inlet and Outlet PVC Sewer connection Electrofusion 4.8 - Cap as shown in Standard Drawings 4.9 - As per Standard Drawings 4.10 - Max depth 5.0 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 Cod	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		DN225 risers not accepted. Min DN300 risers accepted.

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Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
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 tess 4.6 – Base and Riser ribbed 4.7A – EPDM or SBR Ring Joints RIGSS 4.8 – No looking or relief cap 4.9 - Standard MH surround, cover and frame	lplex	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 Refe to clause 6.7.2 of the SEQ Sewerage Code	r NOT ACCEPTED BY SP	Approved for DN150 to DN225 RIGSS only as pocell B, Base is single DN size, NOT ACCEPTED FOR NUSEWER
201 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	SMS REHAU	SMS PA 09/08 parts 0 to 5 Code: MS1 Code: MS2 Code: MS5 Code: MS5 OD400-GD (Type H12) OD400-RML (Type H13)		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 a accepted.
203 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 - Standard 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 Rocla		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	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
Pre-cast Concrete Converter Slab for Cast In-situ MHs	No WSA-PS Refer Standard Drawings	Everhard Tellam	_		Refer Standard Drawings				Calcareous aggregate required to be used	
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		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
208 Vent poles 209	325 Project Specific outcome Product Appraisal Report PA 0906 for RPC	RPC Technologies Ingal EPS			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 Accepted Height 12.0 m	Use is subject to acceptance by SP Minimum accepted Height 6.0 m
210 211 212 212 213	No WSA-PS Refer details on SEQ-WAT-1305-1 and SEQ-WAT-1305-2	Viadux NIBF Gatic / Milne Tellam	-		Refer Water Code Standard Drawings for approved Valve Box and Cover					
214 Loose PE sleeving to DI pipe	320 Cream Colour to POP203	Viadux Crevet	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		
Embedment material - crushed rock	351 4.1 - Single sized 4.2 - Nominal 5 or 7 mm									
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
Concrete-Normal Class	357 4.1 - As follows N20 Thrust Blocks N25 for reinforced embedment 4.2 - Slump as required for placement									
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 - Standard 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 aggregates shall be used Admixtures shall be non-chloride type	
220 221 222 222 223 224 225	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 Bermad Vent-O-Mat Odour Technologies AVFI ISCO	Vinloc-Smartvalve ARV-3-N Vent Master PX	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.	
226	264 Refer Appendix B of AS4794	HMA Valveco	Valmatic Swing-flex	DN50 - DN600		NOT ACCEPTED BY SP				
227 Non-return valves - Swing check with counterweight	a) Class - PN16 min - Size by Design b) Medium - Sewage c) Installation - Horizontal	Dobbie Dico AVK	Dobbie Dico AVK Swing Check Valve 41/25	DN80-DN900 DN50	MIN. PN16, Thermal bonded polymeric coating			Use is subject to acceptance by SP		NOT ACCEPTED BY SP
lever arm	d) Spindle - Extended e) Lever and Counterweight minimum with switches and	AVK	AVK Swing Check Valve 41/8X	DN80-DN300						
230	indicators by Design j) Flanged to AS 4087 Figure B5	Challenger Valves AVFI Pty Ltd	Challenger - RSSC AVFI - RSFC	DN80-DN375 DN50-DN300	-	NOT ACCEPTED BY SP			Use is subject to acceptance by SP	
232		HMA Valveco	Valmatic Swing-flex	DN50 - DN600						
233	264 Refer Appendix B of AS4794	Dobbie Dico	Dobbie Dico	DN80-DN900						
Non-return valves - free acting (without counterweight)	a) Class - PN16 min - Size by Design	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		
Swing Check	c) Installation - Horizontal d) Spindle - Extended	AVK	AVK Swing Check Valve 41/8X	DN80-DN300			,,	, , , , , , , ,		
236	j) Flanged to AS 4087 Figure B5	Challenger Valves AVFI Pty Ltd	Challenger - RSSC AVFI - RSFC	DN80-DN375 DN50-DN300					Use is subject to acceptance by SP	Use is subject to acceptance by SP
237		AVFI Pty Ltd Vinidex	AVFI-ROPU	DIN20-DIN300	DWV uPVC Moulded Fitting reinforced to SEQ					Use is subject to acceptance by SP
238 PVC-U Fabricated Fittings	230 4.1 - Plain Wall only 4.2 - Solvent Cement joints for Fabricated assemblies with	lplex	Deep Sewer Junction & Reinforced Fittings such as		Standards. Type D Junction from moulded fittings welded and fibreglass wrapped.					
	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	·	Connection Bends and Inspection Tees Reinforced Fittings such as Connection Bends and Inspection Tees	DN100-300	Tibregiass wrapped. Specification of the state o				NOT ACCEPTED BY SP	DN100 at SN10, DN150 and larger at SN8 and Fittings at SN8 minimum
241	4.4 - RRJ @ SBR & EPDM	M.E. Christensen	_		and fittings Fibreglass wrapped as shown on the drawings SEQ-SEW-1104-1 and SEQ-SEW-1105-1.					

OLG WATER OO	FFLT AND SEWERAGE DESIGN AND C	CHOTROCTION COD	'		iviay 2	017			ACCEL TED CIVIE I NOT	DOCTS AND WATERIALS
A	В	С	D	E	F	G	Н	I	J	К
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
142	236 4.1 - SN8 minimum	Vinidex								
143	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.	Iplex		DN150 as bent pipe &						
PVC-U SN8 long radius bends	4.2.2 - DN225 only, 3.0 metres radius preferred, spigot spigot ends as a heat formed bend or as a fibreglass wrapped	Tri Underground	Long radius 3000 mm bends	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	
45	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	Fabfit								
146	1260 Section 6 4.3 - SBR & EPDM	M.E. Christensen								
247	318 4.1 - Tape/Product Colour - Drinking Water = Blue preferred (Green accepted via SP approval) Non-Drinking Water = Purple	Boddington								UW accepts only blue detectable marker tape for
Detectable marker tape	Sewerage = Cream 4.2 · Message = "Caution PRODUCT Buried Below" 4.3 · SS 316 tracer wire 4.4 · See 4.1 above	Tapex			For open-cut construction					drinking water
Tracer wire	343 As per specifications	Tapex	Copperhead	500, 1000 and 2500 (feet)	For HDD and Pipe bursting etc. Components of test station, connector and grounding anode are accepted	Use is subject to acceptance by SP		Use is subject to acceptance by SP		Use is subject to acceptance by SP
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		
151 Hydrophilic Seal			Hydrotite							
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			Use is subject to acceptance by SP		
Protective lining & coating (including PE lining)	Refer to Mechanical IPAM list	Refer to Mechanical IPAM list	Refer to Mechanical IPAM list	Refer to Mechanical IPAN 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

A	В	C	D	E	F	G	Н	I	J	К
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
Category: WATEI	R SUPPLY PIPES - PRESSURE									
	209 4.1 - PN16	Iplex	Reiber Blue	DNI400 to DNI200	-				Only accepted where PE is unsuitable	
PVC-M pipe	4.1 - FNT0 4.2 - Drinking Water 4.3 - Series 2 only	Vinidex Viadux	Hydro Blue Tuf-Flo	DN100 to DN300	Series 2 PN16, Min SN 10				Only accepted where PE is unsultable	NOT ACCEPTED BY SP
	4.3 - Series 2 only 4.4 - Blue 4.5 - SBR & EPDM	Micron Pipelines	Micron Pipelines	DN100 to DN300	Reiber ring accepted				Use is subject to acceptance by SP	
	210	Pipemakers	Pipemakers Enviromain						,,	
PVC-O pipe	4.1 - PN16 4.2 - MRS400 or MRS450 4.3 - Water main	Iplex Vinidex	Apollo Blue Supermain	DN100 to DN300	Series 2 PN16, Min SN 10		SP USE ONLY	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
	4.4 - Series 2 only, Blue for Drinking Water and Purple for No- Drinking Water refer POP203	Micron Pipelines	Micron Pipelines	DN100 - DN375	MRS400 or MRS450					
	4.5 - SBR & EPDM	Viadux	Tytonxcel	DIV100 - DIV373						
		Vinidex	LINX-GP	DN250 - 750 (not 225)	PN 20				NOT ACCEPTED BY SP	
		Vinidex	ZAP-GP	511200 700 (101220)	20					
		Viadux	Tytonexcel							Seal coat on pipes >= 450 Seal coat requirement is dependant on w
	200 4.1 - All Pressure Classes - see Column F	Crevet / Iplex	Irontite		PN 35					quality. PN20 - Use is subject to acceptance by Restraint joint seals not suitable for:
	4.2 - As per Standards 4.3 - As per accepted product	·					Seal coat on pipes >= 450	Seal coat on pipes >= 450		PN20 pipe; Aboveground applications;
DICL pipe	4.4 - All fittings to be Fusion Bonded Polymeric Coated 4.5 - Restraint Joint Seals by approval 4.6 - SBR and EPDM	Vinidex	LINX-GP ZAP-GP	Up to DN750 (not 225)		Seal coat on pipes >= 450 PN20 - Use is subject to acceptance by SP	PN20 - Use is subject to acceptance by SP Use of Vinidex LINX and ZAP products is subject		Only accepted where PE is unsuitable. Seal coating required for all sizes	Combining joint restraint and thrust block Epoxy or fusion coated spigots (incl Tytones pipe);
	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	Viadux	Flange Class	Op to DIV 50 (not 225)			to acceptance by SP	to acceptance by SP	Use of Vinidex LINX and ZAP products is subject to acceptance by SP	Other manufacturers sockets or other pi materials.
	comprehensive soil testing and risk assessment		-		Flange Class					
		Vinidex	LINX-GP		Flange Class					
_		Vinidex	ZAP-GP							
3		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
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 sleewing 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
Small DN Ductile Iron Water Mair pipe at PE OD's	n	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
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 wat quality
		Iplex				1 - Used as Water Service pipe at DN25 and				
	207 4.1 - PN16 SDR11 PE100	Vinidex				DN32 recommend PE80B pipe (DN50 and DN63 by CoGC)				
	4.2 - Drinking and Non-Drinking Water 4.3 - Pipes lengths for DN160 and larger and coils accepted for	DMG Cromford	Identi-pipe		PE100 PN16 Blue colour - solid or striped for drinking water	Used as Drinking Water main at DN63 and DN110 in Dual Water Supply			PE is preferred pipe material for single and dual water supply systems - PE shall be used unless	
PE pipe	DN110 and smaller 4.4 - Mains Colour Blue Solid for Drinking Water and Purple	Poly Pipe		OD25 32 40 50 63 90 125 180 250 315 355 450 560	For directional drilling installations, minimum SDR 9	3 - Used as A+ Non Drinking Water main for Cul- de-sac terminal end at DN63 in Dual Water		Use is subject to acceptance by SP	specific site conditions dictate otherwise. Either solid or striped colours are permitted for	
	solid for Non-Drinking Water with Water Service pipe Black with Blue Stripes for Drinking Water and Purple solid for Non-	Viadux	Advantage/TYCO10	630 800	(PN20 PE100) unless specified otherwise and install with SS316 tracer wire.	4 - Used as Drinking Water main for Cul-de-sac			single and/or dual water supply systems.	
	Drinking Water, refer POP203. 4.5 - PE100 only	Enviropipes	Enviropressure		Pipe wall thickness to be designed for installation forces.	Reticulation	Use is subject to acceptance by SP			
		ACP	ACP			Use is subject to acceptance by SP			Use is subject to acceptance by SP	Use is subject to acceptance by SP
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 Cude-sac terminal end at DN63 in Dual Water Supply 4 - Used as Drinking Water main for Cul-de-sac terminal end at DN63 in Tor Cul-de-sac terminal end at DN63 in Toraditional Drinking Water Reticulation	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
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
CC-GRP (centrifugally cast) pipe and Fittings - Water main	237 4.1 - PN16 minimum	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

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SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE May 2017 ACCEPTED CIVIL PRODUCTS AND MATERIALS

A	В	С	D	E	F	G	Н		J	K
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
288	205 4.1 - DN300 and larger 4.2 - PN16 minimum	Flowtite / Iplex	Flowtite	DN300 - DN3000						
FW-GRP (filament wound) pipe and Fittings - Water main	4.3 - SN 10,000 minimum 4.4 - Standard bend forms permitted 4.5 - Sp-Sp RRJ Coupling and Fl Joints	Global Pipe	Fiberstrong	DN300 - DN4000	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
290	4.6 - Standard Glass 4.7 - SBR & EPDM	Superlit / Clover Pipelines	Superlit	DN300 - DN3000						
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		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

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A	B	С	D	E	F F	G G	Н	ı	J	K
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
Category: WATER	R SUPPLY FITTINGS - PRESSURE									
3	201 44 See See See El 8 El El	Viadux	Auslite	DN100 & DN150	Lightweight fittings					Use of Restrained Joint Rubber Rings (Tyton-
Lightweight DI bends, tees/branches & connectors	4.1 - Soc-Soc, Soc-Fl & Fl-Fl 4.2 - PN16 fittings	Dobbie Dico	Dobbie	DN100 to DN150	Lightweight fittings Thermal bonded polymeric coating					subject to acceptance by SP
tood branonos a connocio	4.3 - By approval 4.3 - SBR & EPDM	Himigiri Castings/Galvin Engineering / CivilPipes	Galvin	DN100 & DN150	All DI 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
		Viadux	Tyton Joint							
		Crevet / Iplex	Crevet	Up to DN750						
	201	Vinidex	Superlink	Op 10 D14730						
DI bends, tapers, tees/branches, connectors, risers & caps/blank	4.1 - Soc-Soc, Sp-Sp, FI-FI, Soc-Sp, Soc-FI & Sp-FI 4.2 - Standard and PN16 fittings	Derwent			Thermal bonded polymeric coating					Use of Restrained Joint Rubber Rings (Tyton-
ends	4.3 - Restraint Joint Seals by SP approval	Gillies Himigiri Castings/Galvin		DN100 & DN150	All DI to be wrapped					subject to acceptance by SP
	4.4 - SBR & EPDM	Engineering / CivilPipes	Galvin	DN80 to DN300						
		Dobbie Dico	Dobbie	DN100 to DN250			Use is subject to acceptance by SP			
		Mallet	Mallet	DN80 to DN750						
	270 4.1 - PN16	Viadux	Gibault Ezigib & Vari-Gib							
	4.2 - All pipe materials except PE	Crevet	Gibault & Universal Multigib	Up to DN750						
DI mechanical couplings - Non End Thrust Restraint	4.4 - Straight 500-500	AVK	Gibault & Universal		Long type All DI to be wrapped					
Tillust Restraint	Stepped coupling require SP approval Flange end not used	Viking Johnson	MaxiFit, QuickFit		All bit to be wrapped					
	4.7 - SBR & EPDM	Derwent								
	And SS316 bolts, nuts and washers	DEKS	DEKS FLEXI-GIB	DN80 to DN750				Use is subject to acceptance by SP		
DI mechanical couplings - End	271 4.1 - PN16 4.2 - DI 4.3 - Short and Long Series	Hawle / Hygrade Water	Synoflex PN16 Restraint coupling for AC, PVC, DICL, SCL						Use of Synoflex is not accepted on PVC and GR pipe materials	, ,
Thrust Restraint	4.4 - Straight and Stepped and Flange Adaptor 4.5 - All DN Range options			DN50-DN300						The use of gripper type fittings on AC, PVC, DI SCL pipe subject to acceptance by SP
(Gripper Type)	4.6 - Flange Figure as specified with SS316 bolts, nuts and washers 4.7 - SBR & EPDM & Nitrile And SS316 bolts, nuts and washers	+GF+	Multi/ joint 3000 Plus restraint type for AC, PVC, DICL, SCL							
I	No WSA-PS									
DI flanged telescopic flexible fitting	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	
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
	201 4.1 - Soc-Soc only	Viadux	Readytap	DN100 to 300						
	4.2 - Standard and PN16 fittings	Crevet / Iplex	Pretapped	DN100 & DN150	Thermal bonded polymeric coating		SP USE ONLY			
	4.3 - Restraint Joint Seals by approval 4.4 - SBR & EPDM	Vinidex	Superlink	DN100 & DN150	DN100 to DN150 with 4 x 20BSP tappings at 2 per side and DN200 to DN300 1 x 50BSP tapping					
Pretapped connectors	DN100 to DN150 with 4 x 20BSP tappings at 2 per side and DN200 to DN300 1 x 50BSP tapping	Himigiri Castings/Galvin Engineering / CivilPipes	Galvin	DN100 & DN150	and biv200 to biv300 1 x 3083F 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
	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	
9	313 4.1 - Type R	Crevet	Wang	DN100 to DN300						
316 SS repair clamps, flanged off- take clamps & BSP tapping clamps	4.2 - Pipe DN by SP approval	Viadux	Wang	DN100 to DN300	Min. PN16, 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		
	4.3 - Off-take DN by approval 4.4 - Min. PN16	Cascade Control	Rapid Clamps	DN40 to DN350					Use is subject to acceptance by SP	
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		
			Series 57 (light type only for DN100 & 150)	Up to DN400	Anchor legs approved					
		AVK	Series 570	Up to DN200						
			Series 36/80 Series 01/71	Up to DN300 Up to DN300	PE Pipe ended approved Gripper ends approved					
	260 4.1 - PN16		Series 55 E2 FL Ends	DN450 to 600 DN50 - 200	WSAA Appraisal 11/23					Use of Hawle System 2000 is subject to
	4.2 - All End configurations accepted	Hawle / Hygrade Water	E2 System 2000	DN50 - 300				Use is subject to acceptance by SP		acceptance in Acid Sulphate Soils and Saline
Resilient Seated Gate Valves,	 4.3 - Integral By-pass on DN450 and larger (Unitywater accepts either integral or constructed by-pass as per job specification) 		A Valve FL & SOC Ends Series 500	DN80 - 200 Up to DN600	WSAA Appraisal 06/07	DN500 and DN600 with DN100 By-pass				coastal environmental locations.
Resilient Seated Gate Valves, thermal bonded polymeric coating.	4.4. Coor Poy on DN600 and larger	Viadux	Auslite Auslite II	DN80, 100 & 150 DN100 to DN300	Anchor Legs approved	DN750 with DN150 By-pass		Use of Auslite II is subject to acceptance by SP		
	4.6 - No requirement for spindle cap colour		Bayard	DN50 - DN200	With PE pipe tails approved					
	4.7 - Extension Spindle to WSA PS - 262 4.8 - Spindle Cap	Karon / Challenger	Karon	DN80 - DN600						
	4.9 - SBR & EPDM	AVFI Betta	BETTA	DN100 - DN375					Use is subject to acceptance by SP	Use is subject to acceptance by SP
		AAP Industries	Maxiflo/appFLO	DN80 to DN300	WSAA Appraisal 11/26 Issue 2			Use is subject to acceptance by SP	1	
		Derwent Industries	Derwent	DN80 - DN600	WSAA Appraisal 1511					
	+	DAEMCO	+	DN80 to DN300	WSAA Appraisal 1517 (10/05/16)	Use is subject to acceptance by SP		+	Use is subject to acceptance by SP	<u> </u>
		Pentair / Viadux	Keystone							
		Ebro	Ebro	DNEO 2007	Body ductile iron with fusion bonded polymeric coating external to 300 μm, internal to 350 μm (min.) or high-	DN100 to DN250 Property Service valves are lugged and Anti-clockwise closing hand lever				
	263	AVFI	AVFI	DN50-600 for wafer/ lugged DN100-1000 double	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	operated. DN375 and larger valves are double flanged and Anti- clockwise closing gearbox operated.	Use is subject to acceptance by SP	Use is subject to acceptance by SP Direction of closing: Anti-clockwise	Use is subject to acceptance by SP	Direction of closing: Clockwise
Butterfly Valves	4.1- PN16							2.30mg. / mm 0.00N4100	1	i .
Butterfly Valves	4.1- PN16 4.2- resilient seated wafer, lugged or double flanged	Valveco	Valveco	flanged	steel Grade 316. Operation Type: Lever or Gearbox. Gearbox ratio as per manufacturer's requirement, coating – high build two-pack Epoxy 275 µm (min.)	3				
Butterfly Valves		Valveco Iplex	Valveco		steel Grade 316. Operation Type: Lever or Gearbox. Gearbox ratio as per manufacturer's requirement, coating	3				

Α Α	PPLY AND SEWERAGE DESIGN AND C		<u> </u>	T =	may 2		Т н Т			VUCTS AND MATERIALS
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
		AVK	Series 30/00 non-swab and 30/10	0				DN80 Flange to A.S.4087 Fig B5	Swab type only accepted DN100 flanged to AS 4087 Fig B5.	All new hydrants are to be 100 mm DI FBE coated
338		Viadux	Sureflow	-	B II T . O . O	DN80 Flange to A.S.4087 Fig B5	DN80 Flange to A.S.4087 Fig B5	Swabbing type at main ends refer SEQ-WAT-1302	100 mm hydrant riser shall be used.	with a removable top cap and internal assembly to
Hydrants	267 4.1 - DN80 and DN100 Flanges	Civil Pipe Supplies	BETTA normal & Swab	-	Removable Top Cap & Internal Assembly. Thermal bonded polymeric coating.	Purple Body and Lug for A+ Recycled water	Swabbing type at main ends refer SEQ-WAT-1302-	1	riser may be used with Plasson slotted flange	allow direct full bore access to the pipeline for swabbing/flushing. All new hydrants shall have
340	4.1 Broot and Britto Flanges	AAP Industries	MAXIFLO/appFLO		Purple body and lug for recycled water.	1	1		adaptor set. Use is subject to acceptance by SP	100 mm flanges, 100 mm risers and spring heads.
341		Derwent Industries	Derwent non-swab					Use is subject to acceptance by SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP
342	No WSA-PS	AVK	Derwent non swab				DN80 Flange to AS4087 Fig B5		NOT AGGET TED BY GI	
Hydrant and air valve isolator's	Aligned to WSA_PS 201 and 270 with Flanges to AS 4087	Viadux		DN80 - DN100	Thermal bonded polymeric coating		, , ,	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Mandatory for Hydrants on Trunk Water mains >DN300
344 valves 345	Figure B5 To comply with WSA PS-201S when published	Crevet		1	Min. PN16		Swabbing type at main ends refer SEQ-WAT-1302- 1			Isolator Valve for Hydrant - Min. DN100
346		Viadux								
Valve box & cover C.I.	No WSA-PS	NIBF / Iplex			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				
348	Refer details on SEQ-WAT-1305-1 and SEQ-WAT-1306-1	Tellam				on 11-134 of meter standard drawings				
349		Gatic / Iplex								
350	N. WOA DO	Viadux NIBF / Iplex								
Hydrant box & cover C.I.	No WSA-PS Refer details on SEQ-WAT-1305-1 and SEQ-WAT-1306-1	Tellam		1	Bitumen coated to AS 3750.4					
352		Gatic/Iplex								
354		Viadux			Non-trafficable location only.				Coloured to SEQ-WAT-1300-1,	
Valve & hydrant boxes (recycled 355 plastics) & DI Covers	No WSA-PS Refer details on SEQ-WAT-1305-1	Crevet			H - Hydrants V - Valves	Coloured to SEQ-WAT-1300-1 and SEQ-NDW-2309-1	Coloured to SEQ-WAT-1300-1	Coloured to SEQ-WAT-1300-1	SEQ-NDW-2122-1 and	Coloured to SEQ-WAT-1300-1 and SEQ-NDW-2209-1
356	Neid details on ded WAT 1995 T	Vinidex			AV - Air valve	0EQ NEW 2003 1			SEQ-NDW-2125-2	OLG NEW 2203 1
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
358	262 4.1 - DN100 to DN525/600 4.2 - Length by Design	Viadux								
359 Valve extension spindles	4.3 - Valve extension spindles shall be coated with a polymeric coating to AS 4158 with 350 µm DFT (minimum), or	NIBF / Iplex			AS2638 Compliant					
360	Valve extension spindles shall be hot-dip galvanized in accordance with AS 4680.	Forge Bros / Vinidex			A32030 Compilant					
361	Spindle support with bearing at 1 per installation minimum and at 1.8 m max spacings	Challenger				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
362 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	Steel Mains			Class 16					
363	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	NIBF / Iplex			Thermal bonded polymeric coating					
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								
364 Bolts	No WSA-PS				316 Stainless steel bolts					
303	Refer details on SEQ-WAT-1313-1	George Fischer								
366	208 DN63			-				Use is subject to acceptance by SP		
367	2.(a) - AS/NZS4129 or EN 1254 acceptable Certification	Philmac / Philmac & Vinidex		-				Use is subject to acceptance by SP		
368	4.1 - PN16 minimum 4.2 - Mechanical Polyethylene or Copper Alloy both with	Plasson				Only fittings with a Copper Alloy body and a				
PE mechanical compression fitting 369 for reduced size water mains	Papproved Plastic grippers/olives/thimbles 4.3.1 - Transition - PE to Male R thread to AS ISO 7.1 or	Talbot		DN63	PN16	Copper Alloy compression nut are approved for				
370	Female Rp thread to AS ISO 7.1	Alprene				usc				
371	4.3.2 - Coupling - PE to PE 4.4 - Flange not used	Iplex								
372	4.5 - SBR & EPDM	Viadux					Use is subject to acceptance by SP		Use is subject to acceptance by SP	
373		Plasson		Coupler up to DN710						
57.5	208 DN63 and larger	Georg Fischer	ELGEF Plus	,	1		Asserted for DNOS and DNAS	Accepted for DN63 and DN110		
374	2.(a) AS/NZS4129 or EN 1555 or EN 12201 or EN 13244 is		Draw - Lock	DN250-560 with branch	-	Accepted for DN63 and DN110	Accepted for DN63 and DN110			
975 PE Fittings	acceptable. 4.1 - PN16 minimum	Friatec / Vinidex	Frialen	DN250-560 with branch DN32-90	Comply with AS4129, PN16, Electrofusion fittings to be			Use is subject to acceptance by SP	Use is subject to acceptance by SP	
376 (for mains and large service pipes)) 4.2 - Electrofusion and butt weld 4.3 - Couplings, tees, bends, elbows/adjustable elbows, end	Agru	Agru	Coupler up to DN630	long type. Stub flanges only to be used for sizes DN450 and larger		Use is subject to acceptance by SP	· · ·		
377	caps, stub flanges, saddles, reducers 4.4 - AS 4087 compatibility for mating flange 4.5 - SBR & EPDM	Fusion Group / FusionPlast	Fusamatic	Up to DN630		Use is subject to acceptance by SP	Accepted for DN63 and DN110	Accepted for DN63 and DN110	Spigot ended fittings, flanged tees and flanged saddles are not accepted by SP	Use is subject to acceptance by SP
378		NUPIGECO	Elofit	DN20 to DN710			Use is subject to acceptance by SP	Accepted for DN63 and DN110		

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Δ	B C D				Iviay 2		ACCEPTED CIVIL PRODUCTS AND MATE			
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
9	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
30		lplex		Up to DN355	Full face full bore connections Metal insert in the flange, backing rings not required					oco o cuab nangos lo obojeci lo accopiance sy
Full face PE flanges (for reticulation sizes)		Friatec / Vinidex	Frialen	Up to DN180					Use is subject to acceptance by SP	Use is subject to acceptance by SP
32	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
33	245 Joining to PE Pipe only	Hawle / Hygrade Water	System 2000 Synoflex	Up to DN630	Restraint type, Flange adaptor up to DN355 shall be full					Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline
DI Restraint fittings (for PE) - 4 couplings, flange adaptors, tees,	2.(a) - EN 12201, EN 13244 or EN 14525 acceptable Certification	+GF+	Multi/Joint 3000	Up to DN355					Only accepted for use where welded joints are practical	not leadatal crivile line line leading.
bends, end caps	2.(b) - Plastic fittings not permitted 4.1 - PN16	AVK	Supa Plus	Up to DN315	bore connection					
16	4.2 - SBR & EPDM seal options with AS 4087 "Figure" compatibility for mating flange with WSA PS 312 gasket	Viking Johnson / Philmac	AquaFast AquaGrip	Up to DN630					Use is subject to acceptance by SP	
	216 4.1 - PN16 minimum	Vinidex / Rodney								
PE scour Tees	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	Kingston Bridge / Iplex			Comply with AS4129	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
39	265 Appendix B AS 4956	ARI Flow control								
30	Size - DN20 and Larger Class - PN16 Type of Port - Full and Reduced Port Type of Valve - As per Design	Bermad]	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 acceptar		
Air valves		Vent-O-Mat		DN50-DN200					Use is subject to acceptance by SP	
22	Hydraulic Data - As per Design Materials - DN20 and DN25 permitted with Plastic body. All	AVFI	DAV-MH	1						
32	other sizes End Connections - BSP Threaded or AS 4087 Flange with	ISCO	Vent Master PX				NOT ACCEPTED BY SP	Use is subject to acceptance by SP		NOT ACCEPTED BY SP
93	"Figure" compatibility to mating Flange 264	HMA Valveco	Valmatic Swing-flex	DN50 - DN600		NOT ACCEPTED BY SP				
94 95	Refer Appendix B of AS4794 a) Class - PN16 min - Size by Design	Dobbie Dico	Dobbie Dico	DN80-DN900			Only use valves with capacity for lever arm to open			
Non-return valves - Swing check with counterweight	b) Medium - Water c) Installation - Horizontal d) Spindle - Extended e) Lever and Counterweight minimum with switches and indicators by Design j) Flanged to AS 4087 Figure B5	AVK	AVK Swing Check Valve 41/25	DN50	Min. PN16, Thermal bonded polymeric coating		and close the valve AVK and Dobbie Dico are acceptable	VK and Dobbie Dico are acceptable Use is subject to acceptance by SP LENGER and other valves without lever		NOT ACCEPTED BY SP
lever arm		AVK	AVK Swing Check Valve 41/8X	DN80-DN300			CHALLENGER and other valves without lever			NOT ACCEPTED BY SP
98		Challenger Valves	Challenger - RSSC	DN80-DN375		NOT ACCEPTED BY SP	arm NOT ACCEPTED BY SP		Use is subject to acceptance by SP	
99		AVFI Pty Ltd HMA Valveco	AVFI - RSFC Valmatic Swing-flex	DN50-DN300 DN50 - DN600		NOT ACCEL TED BY CI			, , ,	
00 01	264 Refer Appendix B of AS4794 a) Class - PN16 min - Size by Design b) Medium - Water c) Installation - Horizontal d) Spindle - Extended j) Flanged to AS 4087 Figure B5	Dobbie Dico	Dobbie Dico	DN80-DN900			Use is subject to acceptance by SP	Use is subject to acceptance by SP		
Non-return valves -		AVK	AVK Swing Check Valve 41/25	DN50		NOT ACCEPTED BY SP				
free acting (without counterweight) Swing Check		AVK	AVK Swing Check Valve 41/8X	DN80-DN300						
03 04		Challenger Valves	Challenger - RSSC	DN80-DN375					Use is subject to acceptance by SP	
05		AVFI Pty Ltd Bermad Water Technologies	AVFI - RSFC Bermad	DN50-DN300					coo is subject to deceptance by ci	Use is subject to acceptance by SP
06 07		Singer / HMA Valveco	Singer	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
Pressure reducing valves	268 See Appendix B of AS5081:2008	Plasson Australia Pty Ltd	Plasson C-Valve							(In PRV installations where upstream pressu can be within 50 kPa of the required downstre
09 10		Dorot Australia Pty Ltd Cla-Val Pacific / Challenger	Dorot 300 Series Cla-Val	DN25-DN1200						pressure, Plasson C valves are preferred).
11		Bermad Water Technologies	Bermad							
12 Pressure sustaining valves and	268	Singer / HMA Valveco	Singer	DN 40 - DN900 DN25-DN1200	Min PN16, Thermal bonded polymeric coating	Use is subject to acceptance by SP		Use is subject to accordance by CD	Use is subject to acceptance by SP	Use is subject to acceptance by SP
altitude valves	See Appendix B of AS5081:2008	Dorot Australia Pty Ltd Cla-Val Pacific / Challenger	Dorot 300 Series Cla-Val	(Sustaining) DN-80-DN1200 (Altitude		Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	ose is subject to acceptance by Sr	ose is subject to acceptance by Si
14			Cia-vai							
PE Flex Restraint Fitting (used as puddle flange)		+GF+ Plasson		Up to DN1600 Fits DN160 to DN1600 P Pipe	E-F type follow manufacturer's requirements. PE100/ PE4710 resin	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	Use is subject to acceptance by SP	
17		Viadux		i ipo		For Mains only, restrained type only				
18	204	Viking Johnson			The state of the s	For Meter Assemblies only, restrained type only				
19 Dismantling joints for Flange Pipe	201 4.1 - FI-FI for DJ & FI/Sp for UniFlange	Valveco	Uni-Flange Adaptor	DN50-DN500	SS316 bolts, nuts and washers. Larger sizes of UniFlange shall be assessed for available	Use is limited - refer to SP for advice	Use is subject to acceptance by SP			Uni-flange to be used within pit or abovegroun
and Fittings	4.2 - Thrust type and non-thrust type minimum PN16 4.3 - Thrust Restraint by Fitting	Hygrade Water	Pipemate	DN80-DN900		For Meter Assemblies only, restrained type only		Use is subject to acceptance by SP	Lien is subject to assertance by CD	locations only
20 21	4.4 - SBR & EPDM	AVFI	AFD10 Series	DN80-DN1200	Fitting PN vs Pipeline Test Head.	For Mains only, restrained type only			Use is subject to acceptance by SP	
22		AVFI	AFD20 Series	DN80-DN1200		For Meter Assemblies only, restrained type only				
23 24 Flourneter Network Meter	No WSAA PS 4.1 - Flange to AS4087 Figure 5	ABB Siemens	ABB Siemens		-		Use is subject to acceptance by SP Use is subject to acceptance by SP		NOT ACCEPTED BY SP NOT ACCEPTED BY SP	ABB Water master Use is subject to acceptance by SP
Flowmeter - Network Meter	4.2 - PN16	E&H	E&H				E & H 53W		E & H Promag W400	Use is subject to acceptance by SP

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Product	WSAA Product Specification No.	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
	with Service Provider Specific Requirements				7	0.0, 1. 00.11				<i>y</i>
Category: WATER	SERVICES	Viadux								
29 Tapping bands for DI & PVC pipes	310 4.1 - DN100 to DN300	Gatic / Milne			Gunmetal - Positive stops			SP USE ONLY	RMC tapping band also accepted on AC pipe	
10 Tapping bands for bit & P VC pipes	4.2 - Without Electrical Isolation 4.3 - Female Rp thread to AS ISO 7.1	RMC		B11400 450 000	Positive stops, coloured blue	NOT LOOFITED BY OR		SF USE UNE	Nivio tapping band also accepted on AC pipe	
31		4N Products & Stockbrands	4N	DN100, 150, 200	WSAA Appraisal PA10/18	NOT ACCEPTED BY SP				
	227	Gatic / Milne		DN63-DN315	Gunmetal - Positive stops Only for where E-F saddles are not practicable					NOT ACCEPTED BY SP
32	4.1 - Pipe DN63 and larger (see WSA PS 207 above) - Off- take ID 20 mm minimum				Positive stops, coloured black	NOT ACCEPTED BY SP				
Tapping bands for PE - mechanical	take ID 20 mm minimum 4.2 - PN16 4.3 - Female Rp thread to AS ISO 7.1	4N Products & Stockbrands	4N	DN63, 90, 125 & 180	Only for where E-F saddles are not practicable WSAA Appraisal PA10/19			SP USE ONLY		
33 34	4.4 - Without electrical Isolation	Hawle / Hygrade Water	Haku	DN63 - DN315	Ductile iron lower half		Use is subject to acceptance by SP			
35		Hawle / Hygrade Water	Haku	DN250 - DN630	Stainless steel strap lower half		use is subject to acceptance by SF		NOT ACCEPTED BY SP	
136	329 329.2.(a) - EN Standards accepted	Plasson		_						
37 Tapping saddle for PE -	4.1 - Pipe DN63 and larger (see WSA PS 207 above) - Off- take ID 20 mm minimum	George Fischer		DN63, 90, 125 & 180	Comply with AS4129	Accepted for DN63 and DN110				
electrofusion	4.2 - PN16 4.3 - Combined Saddle and Outlet off-take with integral	Friatec / Vinidex			PN16		SP USE ONLY	Accepted for DN63 and DN110	Use is subject to acceptance by SP	
139	4.4 - Without electrical Isolation	Fusion Group / FusionPlast	Fusamatic	Up to DN355		Use is subject to acceptance by SP			Spigot ended fittings, flanged tees and flanged saddles are not accepted by SP	Use is subject to acceptance by SP
40	No WSA-PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3718 and AS 3688	Gatic / Milne								
Ferrules - TPFNR Bonnet Ferrule Cocks	3006. 2 - PN16 with ability for under pressure tapping 3 - Male R thread to AS ISO 7.1	Elster			Dezincification resistant material and comply with AS/NZS 3688			SP USE ONLY		
141 Bornier Ferrale Gooks	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			-	AGNES 3000					
142	AS3688 at outlet	RMC								
143	274 4.1 - PN16 minimum	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		Accepted for DN20 & DN25		
144	4.2 - Plastic not permitted 4.3 - By accepted product	Elster					Accepted for DN20 and DN25 at meter end of services			
Ball valves - Water Service	4.4 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1	TOF								Ball valves must be capable of being locked by the customer with their own padlock.
140 447	4.5 - 90 Degree closure with 38 mm handle for maintap and 50 mm handle for meter. Meter ball valve with Locking open/close	Cimberio / Strongcast	Strongcast			compression nut for the pipe connection	Use is subject to acceptance by SP			
448	function 4.6 - Water Supply Property Service	Austworld	LOGI VALVE				Accepted for DN20 and DN25 at meter end of services		NOT ACCEPTED BY SP	
440	No WSA-PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3718 and AS	Gatic / Milne								
Union stopcock	3688. 2 - PN 16	Elster			25 mm Dezincification resistant material and comply with	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP	NOT ACCEPTED BY SP		
450	3 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1				AS/NZS 3688					
451	4 - Watermark acceptance									
452	No WSA-PS 1 - Compliance with AS 4020, DR to AS 2345, AS 3565.1, AS	Elster		DN20 and DN25						
453 Slip Coupling	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 7.1 4 - Watermark acceptance	All Valve Industries			Dezincification resistant material and comply with AS/NZS 3688 Shall have a locking nut to prevent kinking between the moving parts		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
454		RMC		DN20						
455	5 - Coupling to have 5mm to 20mm movement with locking nut	Strongcast								
	208, AS/NZS4129, EN1254 or Equivalent									
150	Up to DN63 2.(a) - AS/NZS4129, EN1254 or equivalent acceptable	Plasson								
004	Certification 4.1 - PN16 minimum 4.2 - Mechanical Polyethylene or Copper Alloy both with				PE to BSP connections					
Transition couplers	approved Plastic grippers/olives/thimbles 4.3.1 - Transition - PE to Male R thread to AS ISO 7.1 or	+GF+			Copper male fittings connecting to poly female fittings is not accepted					Push fitting not accepted by SP
457	Female Rp thread to AS ISO 7.1 4.3.2 - Coupling - PE to PE not used									
458	4.4 - Flange not used 4.5 - SBR & EPDM	Friatec / Vinidex					Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
459 460	208, AS/NZS4129, EN1254 or Equivalent	George Fischer Philmac / Philmac & Vinidex		_				Use is subject to acceptance by SP		
460 461	DN25 to DN63 2.(a) - AS/NZS4129, EN1254 or equivalent acceptable	Plasson								
162 PE mechanical compression fittings	Certification 4.1 - PN16 minimum 3.4.2 - Mechanical Polyethylene or Copper Alloy both with	Elster			PE to PE PN16	Only fittings with a Copper Alloy body and a			_	
	approved Plastic grippers/olives/thimbles	TOF Talbot		DN25 to DN63	Push fit type is not accepted	Copper Alloy compression nut are approved for use				
664 pipes 665	4.3.1 - Transition - PE to Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1	Alprene						Use is subject to acceptance by SP		
66 67	4.3.2 - Coupling - PE to PE 4.4 - Flange not used 4.5 - SBR & EPDM	Iplex Viadux		-			Use is subject to acceptance by SP		Use is subject to acceptance by SP	
68	4.5 - SBIC & EF DIVI	NUPIGECO	Elopress			Use is subject to acceptance by SP				
169	No WSA-PS	Elster	V100 (PSM-T) (WM202PD)						Only accepted for above ground installation	
170 171 Meters - 20 mm	1 - NSC/NMI Pattern Approved	Elster	V200		Purple body for non-drinking water Accuracy Class 2					
(direct and sub-metering applications)	2 - AS 3565.1 Certified 3 - Integral Strainer 4 - Std Tail Nut with gasket	ltron RMC	TD8 WM273MRP multijet		Shall comply with relevant SEQ SP water meter/sub-	Horizontal orientation only.		Use is subject to acceptance by SP		
170	5 - Colour and Check Valve requirements as per SEQ-SP requirements	RMC	WM281MRP multijet	1	meter specification and/or policy	Not permitted to be used for Hard Wired AMR systems utilising Reed Switches.			NOT ACCEPTED BY SP	
174		GVT	TPWM	<u> </u>		Not to be used for sub-meters. NOT ACCEPTED BY SP				
75	No WSA-PS	Elster	V100 (PSM-T) (WM252PD)						Only accepted for above ground installation	
76 Meters - 25 mm	1 - NSC/NMI Pattern Approved 2 - AS 3565.1 Certified	Elster	V200		Purple body for non-drinking water Accuracy Class 2					
77 (direct and sub-metering applications)	2 - No stock - Gettilled 3 - Integral Strainer 4 - Std Tail Nut with gasket	Itron	TD8	-	Shall comply with relevant SEQ SP water meter/sub-	Horizontal orientation only.		Use is subject to acceptance by SP		_
.78	5 - Colour and Check Valve requirements as per SEQ-SP requirements	RMC	WM271MRP multijet		meter specification and/or policy	Not permitted to be used for Hard Wired AMR systems utilising Reed Switches. Not to be used for sub-meters.			NOT ACCEPTED BY SP	

A	В	С	D	E	F	G	Н	I	J	К
Product	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
		Elster	V100 (PSM-T)							
79	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					NOT ACCEPTED BY SP				
Meters - 32 mm (direct and sub- metering		Elster	V200		Purple body for non-drinking water Accuracy Class 2			Use is subject to acceptance by SP		
applications)		ltron	TD8		Shall comply with relevant SEQ SP water meter/sub- meter specification and/or policy			Ose is subject to acceptance by Gr		
3-		RMC	MRP						NOT ACCEPTED BY SP	
82	No WSA-PS	Elster	V100 (PSM-T)							
Meters - 40 mm (direct and sub- metering applications)	NSC/NMI Pattern Approved AS 3565.1 Certified Integral Strainer Std Thread for attachment of a AS3565.1 Clause 2.6 (DR)	RMC	WM402MRP multijet		Purple body for non-drinking water Accuracy Class 2 Shall comply with relevant SEQ SP water meter/sub-	Horizontal orientation only. Not permitted to be used for Hard Wired AMR systems utilising Reed Switches.	be used for Hard Wired AMR utilising Reed Switches.	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
84	Copper Alloy Oval Flange with two Bolts 5 - Colour and Check Valve requirements as per SEQ-SP requirements	Itron	Flostar M		meter specification and/or policy	Not to be used for sub-meters. Horizontal orientation only	_			
86		Elster	H4000 Woltmann						NOT ACCEPTED BY SP	
<u>55</u>		Elster	H5000 Woltmann			Use is subject to acceptance by SP			Above ground installation with external top	
87	No WSA-PS	Arad / RMC	Woltman Silver Turbo		Purple body for non-drinking water	Horizontal orientation only			accessible (basket type) inline strainers NOT ACCEPTED BY SP	
Meters - 50 mm and larger (direct and sub- metering	1 - AS 3565.1 Certified 2 - Std integral Round Flange as per AS3565.1 Clause 2.5 to AS4087 Figure B5 with four Bolts				Accuracy Class 2	Honzontal orientation only		Use is subject to acceptance by SP	Above ground installation with external top	
applications)	AS4067 Figure BS with four Boils 3 - Colour and Check Valve requirements as per SEQ-SP requirements	Itron	Flostar M		Shall comply with relevant SEQ SP water meter/sub- meter specification and/or policy			Coo is caujos to deseptante by ci	accessible (basket type) inline strainers	
90	requirements	Itron	Woltex			Use is subject to acceptance by SP			NOT ACCEPTED BY SP Only accept Meistream Plus meter installed above	
91		Sensus	Meistream						ground with external top accessible (basket type) inline strainers	
92		Arad Ultrasonica / RMC	Octave				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
93 94	No WSA-PS 1- Flange to AS4087 Figure 5 2- PN16	Siemens Eletromagnetic	Siements				Use is subject to acceptance by SP		Siemens Mag 8000 Advanced NOT ACCEPTED BY SP	Use is subject to acceptance by SP
94 95 Flowmeters		Siemens Ultrasonic E & H Electromagnetic	Siements E & H		Shall comply with relevant SEQ SP water meter/sub-	Arad Octave Ultrasonic and Siemens Sitrans FM	Use is subject to acceptance by SP E & H Promag 53W		E & H Promag W400	Use is subject to acceptance by SP Use is subject to acceptance by SP
96		E & H Ultrasonic	E&H		meter specification and/or policy	Mag 8000 acceptable	Use is subject to acceptance by SP		Use is subject to acceptance by SP	Use is subject to acceptance by SP
97		Emerson	Emerson				Use is subject to acceptance by SP	Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
98		ABB	ABB				Use is subject to acceptance by SP		NOT ACCEPTED BY SP	Water master
	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 Reed switches from the meter manufacturer are accepted	
99		Epitomy				Only Elster Reed Switches to be used. One DER (digital electronic read outs) panel per			NOT ACCEPTED BY SP	
01		Utility Technology				building.			Use is subject to acceptance by SP	
OI Automatic Meter Reading (AMR) Systems (sub-metering applications) 02		Halytech				NOT ACCEPTED BY SP			Only Reed switches from the meter manufacturer and repeaters supplied from the AMR supplier are accepted	
03		Utiligy							NOT ACCEPTED BY SP	
04 05		Itron	Everblu Vivid Multi Logger			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
05		Watersave	vivia Multi Logger			Use is subject to acceptance by SP	Use is subject to acceptance by SP	Use is subject to acceptance by SP		
06	No WSA-PS 1 - Lids Virgin HDPE with Box Virgin and/or regrind 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 bo Blue lid not permitted
07 Meter boxes		Everhard Industries		492L * 271W * 316D					Solid purple lid with non-drinking water symbol and lettering for non-drinking water meters. Black or blue lid for drinking water meters. Green lid not permitted.	
08		Draper		440L * 275W * 280D						
09		Strongcast		427L * 267W * 316D				Blue Lid not permitted Use is subject to acceptance by SP		
Single check detector check valves	No WSA-PS s 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	
Double check valve (DCV),	No WSA-PS	Pentair/Viadux	VALVCHEQ	DIVIG TO LIVE		0		11		
Double check detector assembly (DCDA)	AS/NZS 2845	Bermad	Cla-Val	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	
14		Elster			Drinking & Drinking					
Pre-assembled dual meter boxes	No WSA-PS 1 - Approved Supplier Assemblies as per SEO-SP	Tellam		DN20	or Drinking & Non-drinking	Install pre-assembled dual boxes as per SEQ-	Subject to Approval of SP	Install approved pre-assembled boxes as per SI requirements		Use is subject to acceptance by SP
14	Approved Supplier Assemblies as per SEQ-SP requirements		KIT235	DINZU	Shall comply with relevant SEQ SP water meter/sub-	WAT-1106 set as well	222,350 to rapproval of the		NOT ACCEPTED BY SP	222 .2 222.jook to doosphantoo by Or
15		RMC	WMKIT235		meter specification and/or policy			Use is subject to acceptance by SP		
16 17 Pre-assembled single meter boxes 18		Strongcast	SCMBA20		Drinking Shall comply with relevant SEQ SP water meter/sub-			Install approved pre-assembled boxes as per SI		
	No WSA-PS 1- approved Supplier Assemblies as per SEQ-SP requirements	Elster		DN20		Install pre-assembled single boxes as per SEQ- WAT-1106 set as well	Install approved pre-assembled boxes as per SEQ WAT-1110 set	requirements	V200 meter only. No slip coupling	Use is subject to acceptance by SP
	approved capping Assemblines de per eta el requiremente	relialii	KIT236		meter specification and/or policy	The second we	11111 1110 001	Use is subject to acceptance by SP	Use is subject to acceptance by SP	
19		RMC	WMKIT236						NOT ACCEPTED BY SP	
20		Elster	46492-00	DN25	-	Accepted with slip coupling	NOT ACCEPTED THE	Use is subject to acceptance by SP	Only accepted with no slip coupling	
21		Elster Tellam	46491-00			Hen is subject to accentance by CD	NOT ACCEPTED BY SP	Install approved sub-meter assemblies as per S requirements		
22	No WSA-PS	All Valve	SMA20M		Drinking or Non-drinking	Use is subject to acceptance by SP Accepted with slip coupling	Install as per CoGC Sub-Meter Guideline		Use is subject to acceptance by SP	
23 Sub-meter assemblies	Approved Supplier Assemblies as per SEQ-SP requirements	Strongcast	SCMLIM20	DN20	Shall comply with relevant SEQ SP water meter/sub- meter specification and/or policy	Accepted with slip coupling	misian as per Codo Sub-Weter Guidenile	Use is subject to acceptance by SP		Slip Coupling not accepted
		Austworld	SMK		and general and policy	Use is subject to acceptance by SP	Use is subject to acceptance by SP	Install approved sub-meter assemblies as per S		
25 26		RMC	KIT227		'	Accepted with slip coupling		requirements Use is subject to acceptance by SP	NOT ACCEPTED BY SP	
20	1	NWIG	MIZZI	_1	<u>L</u>	Accepted with slip coupling	1	ose is subject to acceptance by SP	<u>l</u>	

A	В	С	D	E	F	G	Н	I	J	К
	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
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 - Ductlie 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	
528 Reduced pressure zone device	No WSA_PS AS/NZS 2845	LWG Zurn	Model 375						Any brand with ISO Type 5 product certification to AS2845 is accepted	
(RPZD), 529 Reduced pressure detector		RMC								UW prefers RP03 RPZ
530 assembly (RPDA)		Pentair/Viadux	RP03							
531 Pressure Limiting Valve for Water 2 - Services 3 - 7.1 4 -		RMC		DAME DAME	Dezincification resistant material and comply with AS/NZS 3688 DN15 – DN50 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	
	Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1 H Watermark acceptance Set point 50 m	NEFA	NEFA	DIVIO - DIVIO						

A A	B C D				iviay 2	I 6	1	WATERIALS		
A	В	C	U	E	F	G	Н		J	K
Product 1	WSAA Product Specification No. with Service Provider Specific Requirements	Manufacturer / Supplier	Trade Name	Size Range	Specified Requirements / Minimum Class	City of Gold Coast	Logan City Council	Redland City Council	QUU	Unitywater
Category: WATER	SUPPLY MISCELLANEOUS ITEMS	S								
534	318 4.1 - Tape/Product Colour - Drinking Water = Blue preferred (Green accepted via SP approval).	Boddington								
Detectable marker tape	Non-Drinking Water = Purple. Sewerage = Cream 4.2 - Message = "Caution PRODUCT Buried Below"	Тарех								UW accepts only blue detectable marker tape for drinking water
536	4.3 - SS 316 tracer wire 4.4 - See 4.1 above	LWG Zum								
Tracer wire	343 As per specifications	Тарех	Copperhead	500, 1000 and 2500 (feet)	For HDD and Pipe bursting etc. Components of test station, connector and grounding anode are accepted	Use is subject to acceptance by SP		Use is subject to acceptance by SP		Use is subject to acceptance by SP
538	320	Viadux			Mandatory sleeving to all DI pipe					
Loose PE sleeving to DI pipe		Crevet	BLUEBOSS blue		Colours are Blue for Drinking Water and Purple for Non Drinking Water to POP203					
540	209 4.1 - PN12	Vinidex	Hydro S1							
PVC - M conduits	4.2 - Water Service Conduit 4.3 - Series 1 SCJ 4.4 - White for Water Conduit	Iplex		-	PN12 Series 1		LCC also accepts 100 dia uPVC PN9 Series 1			UW requires uPVC PN9 series 1 with solvent well joint- Refer drawing SEQ-WAT-1108-1.
542	4.5 - SCJ only	Viadux								
Embedment material - crushed rock	351 4.1 - Single sized. 4.2 - Nominal 5 or 7 mm									
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
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		
Concrete	357 4.1 - N20 for Thrust Blocks and Unreinforced embedment. N25 for reinforced embedment 4.2 - Slumps as required for placement				Normal class					
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	
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			Use is subject to acceptance by SP		
Plastic marker post	1- Comply with Main Roads specification MRS11.14	Park International		1350 mm Long × 100 mm Wide × 4 mm Thick	As per SEQ-WAT-1300-2					
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
Category: EMERG	ENCY STORAGE CHAMBERS									
552		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
553		Rocla	Concrete Detention System	Conc. Box units (2.4 m modules) Conc. Pipe units (2.44 m	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
554		Rocla	Plastic Detention System	modules) 1.5 m to 2.25 m dia (10kl	PE spirally wound steel-reinforced pipe		Use is subject to acceptance by SP			NOT ACCEPTED BY SP
Underground Storage Chamber		Chemstore Group	'Plastream' Hydrosave	to 250kl) From 1.2 m to 3.5 m dia and 2.5 m to 20 m length	As per SEQ-SPS-1402-1 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
557		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		
558		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