

9.3 Appendix 3

Approved Material List

1. Introduction

1.1 Preferred material and equipment list

This document contains Westernport Water's preferred material list and applies to drinking water, non-drinking water services, sewer services, electrical services and trade waste services.

The preferred material/equipment list provides consistency across the Westernport Water service area.

The document has been developed to assist developers, plumbers, designers, builders, plumbing specialists, property owners and Westernport Water staff.

1.2 Changes to this document

Westernport Water may change or replace any part of the preferred material list at any time. The latest version of this document can be obtained from Westernport Water by downloading a copy from our website www.westernportwater.com.au.

Any changes to this document will operate prospectively and not retrospectively.

1.3 Legal and regulatory framework

Westernport Region Water Corporation (Westernport Water) is a statutory authority with water supply and sewerage responsibilities conferred on it by the *Water Act 1989* (VIC), including Parts 7 - General Powers, 8 - Water Supply and 14 - Enforcement of the Act.

Section 160 of the *Water Act 1989* (VIC) empowers Westernport Water to make by-laws in respect to the management, protection and use of all lands, waterways and works under its management and control, including penalties and enforcement procedures for non-compliances.

A person who fails to comply with or do anything required to be done under the *Water Act 1989* (VIC), Regulation or By-Law, is guilty of an offence and risks prosecution by Westernport Water.

1.4 Objectives

Preferred and approved material, equipment and brands are chosen based on the following criteria:

- Whole of Life Cycle of Westernport Water's assets
- Reliability, operability and maintainability of Westernport Water's assets
- Product support, critical spares and availability
- Consistency of products across Westernport Water's service area

For detailed technical information, refer to the Water Services Association of Australia (WSAA) and the Melbourne Retail Water Agencies (MRWA). The preferred material and equipment list refers to standard development projects and applies to the majority of development proposals and Westernport Water contracts. Where these policies are inappropriate for a particular development, Westernport Water will determine the necessary requirements on a case-by-case basis.



2. Preferred Pipe Material Schedule – WATER

Pipe Material Description	Application	Preferred Make	Series/ Model	Comments
Ductile iron cement lined	Water Pipe	Pentair, Saint Gobain PAM (Vinidex), Von Roll (Promain), XinXing (Crevet)		
Mild steel cement lined	Water Pipe >300mm dia. only	Steel Mains		
Copper pipe, Polyethylene	Water – Property Service pipes only			
Polyethylene (HDPE)	Water Pipe	George Fisher, Iplex, Pentair, Vinidex, PPI Corporation	Blue Striped – Min PN16	Fittings should be Plasson type
PVC modified (M-PVC)	Water Pipe	Iplex, Pentair, Vinidex, Pipemakers		
Relined with polyethylene	Water Pipe	Infratec		

3. Preferred Pipe Material Schedule – SEWER

Pipe Material Description	Application	Preferred Make	Series/ Model	Comments
Polyethylene PE100 Pipe	Sewer – Pressure non pressure	ACP Australian Custom		
Unplasticised (PVC-U) pipes	Drain, waste and vent (DWV) with RRJ and SCJ	Australian Plastic Profiles		
Ductile Iron Cement Lined	Sewer Pressure and Gravity	Pentair, Saint Gobain PAM (Vinidex), Von Roll (Promain), XinXing (Crevet)		
Glass Reinforced Plastic (GRP)	Sewer Pressure and Gravity	Boru Sanayi A.S. (Promains), Hobas (Global Pipe), Iplex		
Polyethylene (HDPE)	Sewer Pressure and Gravity	George Fisher, Iplex, Pentair, Vinidex, PPI Corporation		
PVC Modified (M-PVC)	Sewer Pressure and Gravity	Iplex, Pentair, Vinidex, Pipemakers, Micron Pipelines		
PVC-Unplasticised (PVC-U)	Sewer Gravity only	Vinidex, Von Roll (Promain), Iplex		
Oriented Polyvinyl Chloride (O-PVC)	Sewer	Iplex, Pentair, Vinidex, Micron Pipelines, Pentair		
Mild Steel Cement Lined	Sewer pressure and gravity	Pentair		
Relined with Cured In Place Pipe (CIPP)	Sewer Pipe	Interflow, Kembla, Veolia		
Relined with Polyethylene	Sewer Pipe	George Fisher, Iplex, Pentair, Vinidex, PPI Corporation		

4. Preferred Equipment - MECHANICAL

Function	Application	Preferred Make	Series/ Model	Comments
Generators	Backup power	Cummins, FG Wilson		
Cable Mechanism, Fall Arrest	Safety	Hi-Safe Industries		
Paddles, Impellers	Mixing, Aeration	By-Jas Engineering Sullair Australia PAX		
Blower	Compressed air	Sullair Australia		
Concrete pits	Concrete structures	Rockla, Humes		
Gear Box	Gear drives	SEW		
Pontoons - Waste water	Equipment flotation	By-Jas Engineering		
Tube Fittings	Metric nylon tube	Prominent		
Tube Fittings	Metric stainless steel tube	Prominent		
Tube Fittings	Metric tube fittings	Prominent		
Pumps	Chemical dosing	Prominent Fluid Control		
Pumps	Water	ITT Flygt,,Thompson Kelly & Lewis , KSB		
Pumps	Sewerage	ITT Flygt, Hidrostal, Grundfos, Gorman- Rupp		
Valves	Air Valve	Bermad		
Valve	Butterfly	Pentair, Tyco, Metaval		
Valves	Gate	AVK, EBRO, Metaval		
Valves	Check	AVK, EBRO Armaturen, Johnvalves, Keyston, Tyco Flow, Metaval		
Valves	Pressure Relief	Bermad		
Controller	Injector	Prominent Fluid Control		
Pump Station	Residential Pump Station	Aquatec Pressure Sewer Pump Stations	Simplex/ Duplex/ Triplex	Sized to Suit property
Crane	Pump Station safety lifting davit	SALA Safety equipment		
Gates, Actuators	Water	Keystone, Rotork		
Anchor point	Root Access/Floor Restraint	Sayfa		
Safety Harness	Fall restraint	Fallright international		
Personnel Davit	Safety equipment	Sala safety equipment		

5. Preferred INSTRUMENTATION

Function	Application	Preferred Make	Series/ Model	Comments
Analysers	Ammonia	Emerson Process Management		
Analysers	Chlorine	Hach, Prominent		Depolox 3 Plus
Analysers	Oxygen - Dissolved	Royce, Hach , MJK		
Analysers	pH & ORP	ABB, AIC , Burkert, Hach		
Analysers	Turbidity	Krohne, Hach		
Analysers	Fluoride Monitor	Orion, Prominent		
Actuated Valve	Liquids	Rotork		
Flowmeter	Magnetic	MJK	MJK	Modbus Communications Card
Level	Switch	IFM		
Level	Hydrostatic	MJK		
Pressure	Differential Transmitter	Rosemount, ABB		
Pressure	Gauges	Ashcroft, Budenberg, Wika		
Pressure	Switch	IFM		
Temperature	Transmitter (field)	MJK, Hach		
Temperature	Transmitter (rack)	ABB, MJK		