



APPENDIX 3

Approved Materials List

APPENDIX 3 - APPROVED MATERIALS LIST

Acceptable Water System Materials**Pipe****Mainline:**

Polyvinyl Chloride (PVC) pipe manufactured to AWWA C900, Class 235, DR18.

IPEX Inc.
Westlake Pipe & Fittings

Molecularly Oriented Polyvinyl Chloride (PVCO) pipe manufactured to AWWA C909, Class 235, DR18.

Services:

Crosslinked Polyethylene Pipe – PEX, manufactured to CSA B137.10

IPEX Inc.
Zurn
CB Supplies

Type K soft copper, manufactured to ASTM B88

Fittings

Ductile Iron, cement lined, conforming to AWWA C110/C111.

Bibby-Ste-Croix
Star Pipe Products
Sigma Corporation

Ductile Iron, cement lined, conforming to AWWA C153.

SIP Industries

Gate Valves

Valves 75 mm to 300 mm:
Resilient seat gate valves conforming to AWWA C509.

Mueller NRS A-2360
Clow F6100
AVK Resilient Seat

Glands, Plugs, Caps

Manufactured to CSA B131.9 and CSA B131.10.

Joint Retainer Glands

Use where required or specified for reinforcing mechanical joints.

Clow Canada
EBAA Iron
Romac Industries – Grip Ring
Sigma – PV-Lok, One-Lok
Ford – Uni-Flange – Series 400,
1300, 1350, 1360

Couplings

Couplings for mains to be per AWWA C219. Centre sleeves and end rings to be ductile iron, be shop coated and meet AWWA C219 requirements.

Ford – FC1, FC2A
Robar – 1408
Romac – 501
Rockwell – 441

Couplings for mains to be per AWWA C111.

SIP Industries – EZ Grip; and
EZ Grip PTP

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Hydrants

Conforming to AWWA C502, base to be 150 mm mechanical joint, dry barrel.

Mueller – Century

Tapping Sleeve

Stainless steel saddles are to be used on PVC pipe.

Ford – FAST (SS)
 Mueller – H-615 (SS)
 Robar – 6606 (SS)
 Romac – SST304
 Smith Blair – 622, 663

Valve Boxes

Slide type, 125 mm diameter, with 0.6 m adjustment

Bibby
 Mueller
 Domestic Foundry

Main Stops

Plug valve type, AWWA C800-89, compression joint. (Use stainless steel saddle on PVC pipes.)

Mueller – H15008
 Cambridge – Series 102
 Ford – F-1000-G
 A.Y. McDonald – 74701BQ, 7401BT
 A.Y. McDonald – 76100Q, 76100T

Curb Stops

Ball valves only, per AWWA C800-89, compression joints, stainless steel cotter pins.

Mueller – Oriseal, H15207, H15209
 Ford – B44G
 Cambridge Brass – Century
 A.Y. McDonald – 76100Q, 76100T

Service Boxes

D1, No. 8 size, c/w stainless steel rods and pins.

Bibby
 Clow – D1
 Mueller – A726-28

Residential Water Meters

Electromagnetic measurement, sealed unit, LCD display meters, complete with remote touchpad.

Sensus – Omni iPERL

Fire Service Meters

Ductile Iron body, ECR, LCD display, complete with strainer.

Sensus – Omni C2

Backflow Preventors

Double check valve assembly required.

Contact PW staff for confirmation

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Couplings

Couplings for water services to be compression type per AWWA C800.

Mueller – D115403, H12940
 Ford – C44G
 Cambridge Brass – 118
 A.Y. McDonald – 7475Q

Insertion Meters

Hydreka – Electromagnetic Insertion
 Probe Flowmeter (HydrINS 2)

Sampling Station

Kupferle - Eclipse 24

Air Release Valve

Contact PW staff for confirmation

Automatic Flushing Device

Kupferle Foundries – #9700

Corrosion Protection:**Zinc Caps/Collars**

Install caps on every bolt of a fitting.
 Install four collars per water service.

Protecto Caps, Sac Nuts
 Protecto Collars

Zinc Anodes

Install one No. 6 cad weld anode per watermain fitting.
 Attach one No. 6 anode per service using hydro clamp.

Rustrol, Corexco
 Erico

Anticorrosion Wraps, Coatings

Petrolatum Tape systems. Cover entire fitting per manufacturer's specifications.

Denso, Royston, Petroguard

Acceptable Sewer System Materials

Refer to Section C and Section E of the Design Criteria for storm and sanitary sewer and service connection specifications, respectively.

Fabricated site-specific orifice, weir, etc. flow control plates.

Stainless steel materials

Catchbasin Stormwater Treatment Insert

EnviroBasin

EnviroPod

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Acceptable Swing Gate Product

Galvanized, lockable steel swing gate (maximum 3.2 m arm length).

Paris Equipment: 463-410 swing gate