

GOULBURN VALLEY WATER PRODUCT MANUAL

Introduction

The Goulburn Valley Water Product Manual is intended to provide a list of all the materials, instrumentation, mechanical and electrical equipment that are to be used for future maintenance, repair and construction of the Corporation's water supply and sewerage assets.

The aim is to create a product list that is user friendly and provides a standard reference for all designers, constructors and operators. It will continue the standardisation of asset infrastructure throughout the GVW region that will reduce the quantity and range of spares required to be stocked and promote interchange of plant and equipment as required.

The Product Manual is a guide and each purchase should be assessed and approved based on purchase cost, installation costs, innovation, environmental impact, expected operational patterns, etc, to ensure that the most efficient product is selected.

Alternative products will continue to evolve and offer opportunities to improve the creation of these assets. The Corporation encourages employment of any innovation that offers enhanced productivity and serviceability. The incorporation of alternative products into the Product Manual with time and after proven performance will ensure that the Product Manual is a relevant reference document.

Criteria for Inclusion

The criteria for the inclusion of individual and group items in the Product Manual include:

- The service life of the product or material;
- The life cycle cost of the product or material to GVW;
- The reaction of the product or material on the materials being transported;
- The reaction of the materials being transported on the product or material;
- The compatibility of the product or material with existing GVW asset systems;
- The impact of the product or material on GVW's operations and maintenance including the availability of compatible fittings;
- The impact of the product or material on GVW's occupational health and safety obligations;
- The impact of continued use of the product or material on GVW's environmental obligations;
- The capacity of GVW and/or its contractors to install the product or material;
- The capacity of GVW and/or its contractors to operate and/or maintain the product or material;
- The standardisation of products and materials within the GVW asset systems to minimise storage of spare parts and replacement products;

- The availability of spare parts (where applicable) for the product or material;
- The in-service performance history of the product or material.
- The impact of the continued use of the product or material on GVW environmental obligations;
- The availability of an Australian Standard, or other recognised standard, for the product or material
- The specific applications of the product or material.

GVW does not give preference to any particular make or type of product and will include equivalent products in the catalogue if satisfied that those products comply with the relevant standards or specifications and conform to GVW's Products Approval Criteria.

Notwithstanding that a product or material satisfies the Products Approval Criteria, where GVW considers on reasonable grounds that the number of approved products/materials in a particular classification needs to be limited in order to control future maintenance and replacement costs, approval of that product or material may be rejected. Information on the status of applications for inclusion of products in this catalogue can be requested from GVW (contact details on the next page).

A product or material may have been tested and approved by a regulatory body, other water agency, industry association or the like. GVW may at its discretion elect to accept these test results or other information related to this testing/approval. However, GVW's final decision will be based upon a consideration of all of the criteria referred to above and the prior testing/approval is not in itself sufficient to support approval by GVW.

Components

The GVW Product Manual is comprised of two sections:

- **Preferred Equipment List** – An internal GVW document available to GVW staff and GVW engaged consultants **only** via GVW Sharepoint; and
- **Products Catalogue** – A combination of the City West Water Products Catalogue (3 off) and the GVW corresponding supplements (2 off). Available for general public use via GVW Web Page, CWW web page (CWW documents only) and internally via GVW Sharepoint.

This Product Manual must be read in conjunction with the following documents:

- Water Supply Code of Australia, MRWA Edition, Version 1.0, WSA 03-2002 (Water Code);
- GVW Supplement to the Water Code;
- Sewerage Code of Australia, MRWA Edition, Version 1.0, WSA 02-2002 (Sewerage Code); and
- GVW Supplement to the Sewer Code.

Products Catalogue

The Products Catalogue lists the materials and fittings acceptable for use in the construction and maintenance of GVW's water supply and sewerage reticulation systems. This also includes pressure sewer and effluent reuse (New Water) systems.

The Products Catalogue is a combination of the following documents:

1. City West Water – “Products Catalogue for Pressure Pipeline Systems”
2. GVW Supplement - City West Water – “Products Catalogue for Pressure Pipeline Systems”
3. City West Water – “Gravity Sewer Reticulation Products Catalogue”
4. GVW Supplement - City West Water – “Gravity Sewer Reticulation Products Catalogue”
5. City West Water – “Pre-mixed Concrete & Quarry Products Catalogue”

The Products Catalogues that have been prepared and maintained by City West Water (CWW) have been selected as the most suitable for reference by GVW. Similar documents are also maintained by South East Water and Yarra Valley Water with the CWW regarded as providing the best fit with GVW requirements and therefore requiring minimal modification.

Supplements have been prepared and will be maintained to customise the catalogues to reflect GVW requirements. These documents are included in the Development Construction Manual.

The advantages of utilising products catalogues from City West Water include:

- CWW use similar asset systems for gravity sewer and pressure pipelines to GVW. Therefore, the supplements prepared for both system catalogues are minor documents, as few modifications are required:
- CWW possess more resources to initially prepare and maintain the catalogues;
- Any companies wishing to have items included on the GVW products catalogue, will firstly have to satisfy CWW requirements prior to GVW being required to consider inclusion of the item.

Carl Radford, Manager – Standards at CWW has approved GVW utilising the CWW product catalogues as a base document and the link the CWW web page, where the documents can be downloaded.

As CWW will be regularly updating and revising the product catalogues, GVW will refer to the latest documents that CWW have published on the CWW website.

If you require any further information regarding the GVW product manuals, please contact:

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