

# Peter Johns

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## Expertise

- Water supply, sewerage and drainage
- Strategic planning and workshop facilitation
- Capital and financial assessment
- Risk management
- Project management and contract administration
- Organisational systems

## Qualifications and Memberships

BEng (Hons), Monash University, 1985  
Post Graduate Diploma of Business OD, Swinburne, 1999  
Member Institution of Engineers, Australia  
Member Australian Water Association

## Key Project Experience

### PBJ & Associates Pty Ltd, (2003 to present)

#### Managing Director

- Development of fire protection infrastructure plan for University of Melbourne Southbank Campus.
- Facilitation of strategic planning workshops for company Boards and industry groups.
- Assistance with the restructures and development of Asset and Facilities department at Greater Metropolitan Cemeteries Trust.
- Development of road asset management guidelines for the Greater Metropolitan Cemeteries Trust.
- Assistance with the development of the capital works program and rationale for 20 sites at the Greater Metropolitan Cemeteries Trust.
- Development of training program and implantation for capital works development and contract management at Coliban Water.
- Expert witness for water related disputes. Key technical advisor to the Energy and Water Ombudsman
- Management of building rectification and restitution process of defective building for Greater Metropolitan Cemeteries Trust.
- Development of asset management strategic plan and processes for Greater Metropolitan Cemeteries Trust.
- Development of reclaimed water and biosolids management plan for Central Highlands Water
- Technical Advisor for Coliban Water operation and maintenance services contract renewal including the development of key performance indicators
- Assistance with the development of water supply demand strategies for Coliban Water
- Development of infiltration and inflow management plans for Coliban Water
- Specialist, technical and contract advisor for operations and maintenance contract of Coliban Water/Central Highlands Water “Superpipe” project and contract renewal negotiations (6 years)
- Risk Assessment Asset Management for bushfire protection
- Assistance with Water Plan 3 strategies plan development for Central Highlands Water, Coliban Water and North East Water
- Management of Water Resource Upgrade, including off-stream storage at Bright for North East Water
- Specialist Technical advisor for Melbourne Metropolitan Sewerage Strategy for Melbourne Water
- Project Management for Bendigo Water Treatment Plant Upgrade Submission for Veolia Water
- Management of Water Supply Master Plan for Corryong/Cudgewa for North East Water
- Development of tender and execution of operations contract for Goldfield Superpipe

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- Management of Sewage Pumping Station review for Central Highlands Water
- Development and integration of strategic framework for the Water Service Division of Central Highlands Water. This provided a rigorous basis for the identification of long term planning, capital investment and operational directions for the business and became the basis for corporate business plans. The strategic plans assisted the preparation of Central Highlands Water's ESC pricing submission
- Development of water quality strategic plans for Central Highlands Water
- Water resource planning and assistance with the development of Water Supply-Demand Strategies for 25 North East Water water supply systems
- Water resource planning for Coliban Water, including climate change effects on water supplies
- Development of a long term wastewater strategy for Westernport Water. (Cowes, San Remo, Corinella and Coronet Bay)
- Development of water supply strategic plan for Melbourne Airport including review of regulatory requirements
- Management of water supply upgrade for Melbourne Airport including new supply main, fire and domestic pump boosting
- Review of water supply requirements for fire management at the University of Melbourne

## **Connell Wagner Pty Ltd, (1999 to 2002)**

### **Manager, Water & Environment Group**

- Management of Craigieburn sewage treatment plant decommissioning strategy for Yarra Valley Water
- Development of water network model (*WaterCAD*) for Lae, Papua New Guinea (ep 100 000), including training and development of indigenous system assessment skills
- Management of sewerage component (*MOUSE*) and expert advice for the integrated catchment study for Metrowater, Auckland, New Zealand
- Management of design and construction of wastewater treatment plant upgrade for Kraft, Strathmerton
- Management of Emerald/Cockatoo Sewerage Scheme including functional design for pressure and gravity sewerage systems, detailed design of 17 km transfer main and 5 pump stations
- Performance Audit of Non-Metropolitan Urban Water Authorities for the Victorian Auditor General
- Development of water reticulation strategies and management guidelines including *Infoworks* WS reticulation models for Melbourne Airport, University of Melbourne and Shire of Tumut
- Management of sewage pumping station overflow review for Yarra Valley Water
- Contract specialist advice for Arden Street and Hoyt Street drainage contracts (Melbourne Water)
- Specialist Flooding Advice for Mile Creek Insurance Claim
- Hydrology/Hydraulic review of flood management for Geelong Road reconstruction;
- Management of water supply for new Visy Paper Mill in Tumut (100L/sec, 20km rising main)

## **Melbourne Water (1993 to 1999)**

### **Manager, Planning West - Sewerage Group**

- Management of planning team for western sewerage system and Western Treatment Plant
- Development of \$120M strategy for Western Treatment Plant that provides greater operational flexibility, more certainty of meeting license requirements and life cycle cost savings of \$20M compared to the existing strategy
- Implementation of \$120M upgrade program for the Western Treatment Plant including the development of 'alliance' performance based contracts for upgrading the Western Treatment Plant (\$120M)
- Strategic plans and investigation for optimisation and growth in the sewerage system

### **Capital Works Manager – Sewerage Group**

- Management of the Sewerage Group Capital Works Program (approx. \$40M annual) which includes Melbourne's two major treatment plants and the major transfer system

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- Management of Mechanical and Electrical services contract (approx. \$2M annual), including negotiations towards a performance based agreement
- Rewriting and consolidation of Melbourne Water's contract administration and tender manual
- Development and negotiation of service contracts for the sale of Melbourne Water's construction arm
- Restructuring of management and teams for the Sewerage Group to best utilise existing resources and determination of skill gaps

## **Planning & Development Manager – Eastern Treatment Plant**

- Coordination and development of a Planning & Development Group, consisting of Chemical, Civil, Mechanical and Environmental Engineers/Scientists
- Management of the Capital Works Program (\$9.6M 1995/96)
- Development of a working agreement for internal project management services
- Development of strategy for cleanup of heavily contaminated treatment plant site
- Development of 20 year Capital Works Planning Model for the Eastern Treatment Plant
- Activity review of operations and maintenance groups which resulted in 20% labour savings and identifying capital projects to improve performance.

## **Sewerage Strategist – Sewerage Planning**

- Coordination and development of a sewerage strategy team for Melbourne Water
- Development of a 10 year plus sewerage strategy for Melbourne's eastern sewerage system
- Development of a rainfall prediction model, hydrological infiltration model and hydraulic sewerage models
- Development of contracts for consultants and contractors including design consultants for Melbourne Water. This allowed better control of project costs and time
- Development of a strategy for Brushy Creek and Lilydale Treatment Plants
- Hydrologic and hydraulic analysis of the Moonee Ponds sewerage catchment, which realised \$10M+ saving in proposed capital works

## **GHD Pty. Ltd. (1986 to 1992)**

### **Civil Design Engineer**

- Hydraulics services planning, design and construction management for the MCG Great Southern Stand and resurfacing of arena.
- Stormwater/Sewage infiltration investigations for Geelong Water Board, Sydney Water Board, Launceston, Comalco (Bell Bay), Victorian Regional Water Boards
- Detailed civil and hydraulic design for upgrades at Mornington, Ballarat South Wastewater Treatment Plants, Horsham Water Treatment Plant and industrial effluent treatment augmentation works at Australian Newsprint Mills (Albury and Boyer)
- Construction and analysis of 1:10 scale hydraulic model at the University of Melbourne for a 10 000 L/sec sewage/stormwater pumping station for Launceston, detailed computer analysis of controls, design of external civil works and commissioning of constructed facility
- Detailed hydraulic design including layout, computer analysis and documentation of 1600 L/sec sewage gravity/booster pump station at Breakwater for the Geelong and District Water Board
- Development of procedures for venting requirements, bulk chemical storage tank inspections, maintenance and record keeping for Powell Duffryn Terminals Pty Ltd
- Investigation of options and computer modelling for upgrading rural town water supply and sewerage systems
- Design, documentation, project management, contract preparation, tendering and tender analysis, contract supervision and certification of payment for various water, sewerage and drainage projects for non-metropolitan and rural water authorities