

NICK READ



Education and Professional Affiliations

- ▶ BSc Hons Civil Engineering, University of Manchester (UMIST) 1979
- ▶ Former Member Institution of Civil Engineers (UK)
- ▶ Former Member Institution of Water and Environmental Management (UK)
- ▶ Australian Water Association
- ▶ Former P.Eng. Alberta (APEGGA).

Professional History

- Since 2006** **Read Gaughan Pty Ltd**
Principal, offering consulting and contract services for water/wastewater projects (Australia, NZ, Singapore)
- 1998 – 06** **CH2M HILL Australia Pty Ltd**
Regional Operations Manager,
Senior Project Manager (Australia, NZ Singapore)
- 1992 - 98** **Reid Crowther & Partners Ltd**
Partner, Project Manager, Senior Environmental Engineer (Western Canada) – included a two year assignment with CMPS&F Pty Ltd (Australia & SE Asia)
- 1986 - 92** **Sir William Halcrow & Partners**
Senior Engineer,
Resident Engineer/Representative. (UK, Channel Islands, UAE)
- 1985** **Save the Children Fund**
Water Engineer (Somalia)
- 1981 – 84:** **Metcalf & Eddy-Saudi Consolidated Engineering Co. (ME-SCEC)**
Construction Services Engineer, Field/Measurement Engineer (Saudi Arabia)
- 1979 – 81:** **G H Hill & Sons**
Engineer, including a secondment to Isle of Man Water & Gas Authority (UK)

Experience Summary

Nick Read's experience in the Water Industry covers all phases of project development and delivery from conception to commissioning, and through to operations. He has over twenty-five years project experience worldwide, in a variety of project delivery models including D&C, DBO,



BOOT and Alliance projects. He has also developed specific technical expertise and experience in residuals handling, processing and disposal.

In June 2006, Nick started his own practice, and expanded this in July 2008, when he and business partner Paul Gaughan formed Read Gaughan Pty Ltd (RGPL) to provide consulting and contracting services for industrial, water and wastewater projects.

Recent projects undertaken by Nick and RGPL include a role in design management at the Victorian Desalination Project as discipline lead for process (Client – PBBeca JV), project management for a series of upgrade projects at the Prospect Water Filtration Plant (Client – Degremont), a role as engineering manager for elements of the Adelaide Desalination Project, (Client - Abigroup), and as Project Controls Manager, acting for Degremont in the Pimpama WWTP and RWTP Alliance. Other assignments for Degremont have included a feasibility study and project development of a PAC dosing project at Prospect WTP, which would have been the largest installation of its type in the world had it proceeded, and facilitation of HAZOPs for specific process designs. Nick has also remained active in NZ (input to residuals projects and HAZOPs for Beca) and in Singapore, where he developed management plans for testing, commissioning and interim operations for the newly completed Changi WRP .

Nick spent eight years with CH2MHILL between 1998 and 2006. He was involved with the delivery of many of the firm's DB and DBO projects, firstly as a project manager and technical resource, and latterly in a senior management capacity as the Water Business Group Project Delivery/Operations Manager for the Asia Pacific Region. In this role he has been an active member of Alliance Leadership teams and/or JV committees for a number of capital projects.

Before moving to Australia, Nick was a partner with Reid Crowther in Alberta, at that time one of Canada's leading consulting firms and a leader in advanced water and wastewater treatment. His earlier career included large water supply, wastewater collection and treatment, stormwater design and construction projects in the UK, Channel Islands and Middle East - plus a year working with an emergency relief team in Somalia.

Publications

Read, N H, Simpson, M S, Foster, P J and Carvell A (2003) Delivery and Operational Experience of Two Contrasting Technologies for Sludge Stabilisation *Proc, Ozwater Conference, Perth, Australia, 2003*

Burrowes, P., Borghesi, J, Read, N. and Solberg, D. (2001) How an Agency Should React When Its Incinerators Begin to Age – The Twin Cities Story *submitted, Water and WasteTech Asia, Singapore, Sep 2001.*

Read, N.H., Zhou S.P. and Vitasovic, Z. (1997) Secondary Clarifier Modelling for Nutrient Removal Plants *Proc, BNR3 Conference, Brisbane, Australia Dec 1997.*

Gross, T.S.C. and Read, N.H. (1990) Design and Construction of the Bellozanne Sludge Treatment Plant. *Proc Institution of Water and Environmental Management*



Project Experience

Water Treatment and Supply

- ▶ Victorian Desalination Project (Victoria, Australia) – Discipline Lead for Process for the \$3B, 150GL/a desalination project.
- ▶ Prospect WFP pH Buffering and Modifications Projects (NSW, Australia) – Project manager for development phase of new CO2 installation; implementation of miscellaneous process modifications.
- ▶ Adelaide Desalination Project (SA, Australia) – Temporary assignment as engineering manager for in-ground and civil works for the 150GL/a desalination plant.
- ▶ Prospect WFP PAC Project (NSW, Australia) – Project manager for the project development phase of a Powdered Activated Carbon dosing scheme at the Prospect WFP.
- ▶ Grampians BOOT Project (Victoria, Australia) – Project manager for design of water treatment facilities for four communities in rural Victoria.
- ▶ Grande Prairie WTP, Plant Process/Capacity Audit (Alberta, Canada) Master plan development for water treatment facilities for a city of 33,000 population.
- ▶ Irton Water Treatment Works - Automation & Refurbishment (Yorkshire, UK).

Municipal Wastewater Treatment & Re-use

- ▶ Pimpama WWTP & RWTP (Gold Coast, Australia) Project Controls Manager for Alliance to deliver \$75M wastewater treatment and recycled water treatment plant.
- ▶ Changi WRP (Singapore) – Management plans for testing and commissioning and interim operations prior to handover.
- ▶ Project Manakau (New Zealand) – Engineering Manager for latter phases of \$400M D&C upgrade of the 300 ML/d Mangere STP in Auckland.
- ▶ Changi WRP (Singapore) – Contract lead for preparation of procurement contracts for large scale sludge drying systems and sludge thickening and dewatering systems.
- ▶ Hutt Valley Wastewater Project (New Zealand) – Engineering/Technical Manager for a DBO project for a new sewage treatment facilities and infrastructure upgrades.
- ▶ Illawarra Wastewater Strategy (Australia) – Solids lead for bid design of wastewater scheme to rationalise three treatment plants in the Illawarra region.
- ▶ Cronulla STP Tertiary Upgrade (Australia) – Design Manager for detailed design for D&C of secondary and tertiary treatment upgrade for the 57 ML/d Cronulla plant in Sydney.
- ▶ Ardoch STP (Dumbarton, Scotland) – Design Manager for D&C tender design of 100,000EP WWTP.



- ▶ Clarifier Modelling, (NSW, Australia) Computer modelling and investigation into performance of final clarifiers at Sydney's St Marys STP, Melbourne's ETP, Canberra's Lower Molonglo WWTP and Perth's Subiaco WWTP.
- ▶ Bangkok Metropolitan Authority Wastewater Project Stage 4, (Bangkok, Thailand) Design input and review for successful D&C tender for large wastewater treatment plant.
- ▶ Cooma STW Tender Design (NSW, Australia) Project manager for tender design for D&C bid for new 25,000EP sewage treatment plant.
- ▶ Gold Bar WWTP, BNR Upgrade (Edmonton, Canada) – Project manager for pilot studies, including design, retro-fit and operation of full scale demonstration module. Led to detail design of upgrade to 340 ML/d plant.
- ▶ Gold Bar WWTP, Odour Control and Grit Removal Projects (Edmonton, Canada) – design and installation of automatic grit removal system. Design of odour control systems
- ▶ Edmonton Sludge Management (Edmonton, Canada) - tender design of sludge dewatering and thermal drying plant for two Edmonton area wastewater treatment plants.
- ▶ Grande Prairie WWTP, Plant Process/Capacity Audit (Alberta, Canada) Master plan development for wastewater treatment facilities for a city of 33,000 population.
- ▶ Sharjah Sewage Treatment Plant Phase III (Sharjah, U.A.E.) – design manager for 75 ML/d extension to activated sludge plant.
- ▶ Bellozanne STW Upgrades (Jersey, Channel Islands) – Design and Resident Engineer for a series of plant upgrades and additions.
- ▶ Santiago WTP – tender design of preliminary treatment facilities and anaerobic digesters for turnkey bid.
- ▶ Dammam and Al Khobar STP's (Eastern Province, Saudi Arabia) – field engineer for extensions to two extended aeration plants.

Pumping and Transmission Systems

- ▶ Seaview STP Effluent Pumping System (Wellington, NZ) Engineering Manager – modifications to effluent pumping system and 15 km transmission main.
- ▶ Subiaco WWTW Final Effluent Pumping Station, (WA, Australia) Design Manager for detailed design for new effluent pump and reclaimed effluent pumped pump station.
- ▶ Lower Ruvu Water Treatment Plant (Dar-Es-Salaam, Tanzania) Preliminary design for renovations and replacement of intake, low lift and high lift pumping stations.
- ▶ Thorsby Water Supply (Alberta, Canada): Investigation of alternate sources of supply and raw water transmission systems, followed by detail design of 20 km transmission system.
- ▶ Rossdale WTP Intake Relocation Project: Lead Engineer for preliminary design of raw water intake and pumping station for 465 ML/d supply system and 12 km transmission system.



Sewerage & Surface Water Systems

- ▶ Dammam Stormwater Drainage Project: Field Engineer for extensive stormwater drainage system and pumping stations for the City of Dammam, KSA.
- ▶ North West Water Regional Sewerage Rehabilitation Review - Hydrodynamic modelling of combined sewerage system and preliminary design of pollution alleviation schemes.

Industrial Waste Treatment

- ▶ Lidcombe LWP Residue Processing, (NSW, Australia) Project manager for the investigation and design of processing system for residues from a hazardous liquid waste treatment plant.
- ▶ Swan Hills Hazardous Waste Facility Water Management Upgrade (Alberta, Canada) - Design for surface water and process wastewater treatment and reclamation system.
- ▶ Red Deer Municipal Landfill (Red Deer, Alberta) - Design for trucked waste pretreatment facility.

Municipal Waste Management

- ▶ Strathcona Transfer Station and MRF (Strathcona County, Alberta) – Design and development of turnkey bid documents for transfer station and materials recovery facility.
- ▶ Co-composting technology review (Tennessee, U.S.) - Appraisal of co-composting system and comparable technologies.
- ▶ Ryley Regional Landfill (County of Beaver, Alberta) - Design and permitting (including public hearings) for surface water management and leachate treatment for 100,000 Tpa landfill.

Alliance and Partnering Projects (Leadership Group participation and other roles)

- ▶ Bondi STP RIAMP, Sydney Water, ALT Member
- ▶ Ryde Water Pump Station Upgrade, Sydney Water, PCG/JV Committee Member
- ▶ North Head STP MBR, Sydney Water, PCG/JV Committee Member
- ▶ Stormwater Environmental Improvement Program (SEIP), Sydney Water, PCG/JV Committee Member
- ▶ West Camden STP Upgrade, Sydney Water, PCG/JV Committee Member
- ▶ Wetalla Water Alliance, Toowoomba City Council, JV Committee Member
- ▶ Maroochydore STP Alliance, Sunshine Coast City Council, JV Committee Member
- ▶ Cairns Cleaner Seas EPCM project (development phase), Cairns City Council, JV Committee Member
- ▶ Pimpama WWTP & RWTP Package A of the Pimpama-Coomera Waterfuture Strategy (Australia) – Project Controls Manager