

# Alan Hoban

FIEAust CPEng CPESC BE(Hons, Dux) BSc - RPEQ

Director, Civil & Water

**BLIGH  
TANNER**



## 2020 Professional Engineer of the Year (Qld)

Alan combines fundamental skills in civil and water engineering with a passion for good urban design and sustainability to help clients deliver engaging and enduring outcomes.

He recently led the development of urban typologies for Western Sydney, helping deliver amenity and affordability for one of Australia's largest urban growth areas.

Alan's successful initiatives include Water by Design, Flood of Ideas, Flexicar, and Cool Communities. He has received numerous awards including the Gilbert Vasey Award in Agricultural Engineering, the inaugural Sinclair Knight Merz Fellowship, the Tim Fairfax Scholarship, the AILA Queensland Medal and three best paper awards from Stormwater Queensland. In 2014 he was named one of the most influential contributors to the Australian stormwater sector and has been President of Stormwater Australia since 2018.

### PROFESSIONAL EXPERTISE

- + Policy and planning advice
- + Integrated water management and water-sensitive urban design (WSUD)
- + Civil engineering
- + Waterway management and erosion and sediment control
- + Complex development approvals and applications advice
- + Facilitation, training and capacity building
- + Flood and drainage studies and infrastructure planning
- + Climate change adaptation and mitigation strategies
- + Expert opinions

### QUALIFICATIONS

- + BE (Hons, Dux), University of Melbourne
- + BSc (Physical Geography), University of Melbourne
- + Certified Professional in Erosion and Sediment Control (CPESC)
- + Registered Professional Engineer of Queensland (RPEQ)
- + Chartered Professional Engineer, Civil and Environmental (CPEng)

### PROFESSIONAL EXPERIENCE

#### Guidelines & Manuals

- + As Executive Manager—Water by Design, Alan led the development of the following publications:
- + Total Water Cycle Management Planning Guidelines for South East Queensland (2011)
- + ACT WSUD Guidelines (2015)
- + Business Case for Best Practice Stormwater Management (2010)
- + Concept Design Guidelines for Water Sensitive Urban Design (2009)
- +

- + Framework for the Integration of Flooding and Stormwater Management into Open Space (2011)
- + Deemed to Comply Solutions: Stormwater Quality Management (2010)
- + MUSIC Modelling Guidelines for South East Queensland (2010)
- + Standard Drawings: Water Sensitive Urban Design (2010)
- + Stormwater Harvesting Guidelines (Draft, 2010)
- + Construction and Establishment: Swales, Bioretention and Wetlands (2009)
- + Costs, Benefits and Risks of Decentralised Water Systems (2012)
- + Transferring Ownership of Vegetated Stormwater Assets (2012)
- + Maintaining Vegetated Stormwater Assets (2012)
- + Rectifying Vegetated Stormwater Assets (2012)
- + Townsville Stormwater Offsets Calculator

#### Policy & Planning

- + Sunshine Coast Design Strategy Brains Trust
- + Logan River Vision Planning Scheme Alignment
- + Review of State Infrastructure Standards (Water, Sewage and Stormwater) for the Queensland Department of State Development, Infrastructure and Planning
- + EnviroDevelopment Technical Standards Committee
- + Infrastructure Sustainability Council of Australia (ISCA) Technical Standards Review
- + Living Waterways Framework for Healthy Waterways
- + Member, AWA Policy and Strategy Committee (2011 - 2013)
- + Member, Policy Coordination Group of the Chief Executive Officers Committee for Natural Resource Management in South East Queensland (2010 - 2012)
- +

- + Member, Executive Officers Committee on Natural Resource Management in SEQ (2011 - 2012)
- + Chair, Urban Stormwater Quality Policy Working Group
- + State Planning Policy - Healthy Waters: Development of design objectives and statewide roadshow
- + Regional Landscape Open Space Advisory Committee (2010/2012)
- + Stormwater Offsets Discussion Paper (for Healthy Waterways) (Winner 2015 Research and Innovation Award)
- + Brisbane City Plan 2014 - Stormwater code and policy, including worked examples and deemed to comply solutions
- + Stormwater Offsets Implementation Plan for Ipswich City Council
- + Singapore WSUD Framework
- + Loganholme Stormwater Strategy
- + Forest Glen Strategic Land Use Study
- + Brisbane Priority Infrastructure Plan (Stormwater)
- + Ripley Valley Total Water Cycle Planning - Facilitation
- + Greater Flagstone Total Water Cycle Planning - Facilitation
- + Moreton Bay Regional Council Total Water Cycle Planning - Facilitation
- + Townsville Regional Stormwater Strategy
- + Fraser Coast Regional Water Quality Strategy

### Masterplanning

- + Western Sydney Urban Typologies
- + Yeppoon Foreshore Masterplan
- + University of Queensland St Lucia Campus Masterplan
- + Bulimba Barracks
- + Mackay Waterfront Masterplan

### Parks and Open Space

- + Wangetti Trail Business Case
- + Maroochy Botanic Gardens
- + Maroochy Sportsfields
- + Archerfield Wetlands Precinct Plan
- + Warril Parkland, Larapinta
- + North Lakes Common
- + D'Aguilar National Park Day Use Areas
- + Russell Family Park, Montville
- + Mackay Waterfront Masterplan
- + Nudgee Flats Sportsfields Masterplan
- + Redlynch Sportsfields Masterplan
- + Lowe Oval Masterplan
- + Cronulla Park Masterplan
- + Slacks Creek Pedestrian Bridge
- + Bluff Reserve Sinkhole Assessment

- + BCC Moreton Bay Bikeway Peer Review
- + Alan Willing Place Footpath
- + Mt Coot-tha Summit Trail

### Land Development

- + Trask Morayfield Expert Witness (630 lots)
- + Bunnings: Woolloongabba, Plainlands, Virginia, Toowoomba, Carrara
- + Kaufland Australia (multiple sites)
- + Small Smart Sustainable Housing Village (Tweed Shire)
- + Griffin Village
- + 21 Gem Rd, Kenmore
- + 246 Lytton Rd, Lytton
- + 1269 Lytton Rd, Lytton
- + 85 Payne Rd The Gap
- + Rodney Street Units, Wynnum
- + 21-23 Hall St Chermerside
- + 81 Pinelands Rd Sunnybank Hills
- + 264 Southpine Rd, Brendale
- + 32 Twelfth Ave, St Lucia
- + Grampians Drive, Raceview
- + 8 Pylara St, Fig Tree Pocket
- + Cubberla st, Fig Tree Pocket
- + 11-15 Maclean St, Brighton
- + 49 Pacific Street, Main Beach
- + 1381 Waterworks Rd, The Gap
- + 94 Main Beach Rd, Pinkenba
- + The Milton
- + Manly Wynnum Leagues Club

### Institutional Projects

- + St Josephs College Nudgee, Infrastructure Designation
- + Churchie Infrastructure Designation
- + State Netball Centre Infrastructure Designation
- + St Peters Lutheran College Indooroopilly Infrastructure Designation
- + Mt Maria College
- + Noosa Flexi Learning Centre
- + St Mary's College Ipswich
- + Meadowbrook Health Precinct

### Water Sensitive Urban Design

- + Noosa Flexi Learning Centre (2014 Excellence in Integrated Stormwater Design Award (Qld) and 2015 Best New School (CEFPI National))
- + Global Change Institute - University of Queensland
- + Little Creek (Sydney) Alternative Stormwater Management

**Alan Hoban** Director, Civil & Water**Strategy**

- + Chapel Hill Natureplay
- + Centenary Library
- + Sumvista Fresh Food Garden and Market
- + Peer review - Caloundra South Urban Development
- + Singapore Water Sensitive Urban Design Strategy 2006/2007, including training of Public Utilities Board staff and the design of Singapore's first raingardens
- + Bellvista Estate, Caloundra, Queensland
- + Childers Street 'Arts Heart' Precinct, Canberra
- + STORM Rating Tool - Victoria
- + Brighton Drainage Alternatives - Perth
- + Bioretention Street Trees - North Terrace, Adelaide and Little Bourke Street, Melbourne
- + Royal Park Native Garden Pond, Victoria
- + Coomera Waters Village and Resort, Queensland
- + Macau Cotai Resort Master Plan
- + WSUD strategies for numerous other residential, educational, commercial and industrial urban developments

**Integrated Water Cycle Management**

- + Western Sydney Watercycle Planning (Sydney Water)
- + Unitywater Total Watercycle Management Plan
- + Nutrient Emission Abatement Plan (Queensland Urban Utilities)
- + Canberra (ICON Water) Growth Management Framework
- + Melbourne Urban Potable Roofwater Harvesting Investigation
- + Boonah STP Effluent Reuse Study
- + Beaudesert STP Effluent Reuse Study
- + The Milton high rise development
- + Brisbane City Council Stormwater Harvesting (Downey Park, Norman Park, Sexton St and Langlands Park)
- + Moreton Bay Regional Council Total Watercycle Management Plan
- + Tooronga Village Masterplan
- + Macau Cotai Resort Masterplan
- + Wet'n'Wild watercycle management and backwash investigation
- + Wyong Town Centre and Porters Creek Wetland water cycle strategy

**Climate and Energy**

- + Greater Parramatta and Olympic Peninsula (GPOP) Urban Cooling Strategy
- + Warwick Solar Farm (70 MW)
- + Darlington Point Solar Farm (300 MW)

- + Moreton Bay Regional Council Water and Energy Efficiency Strategy
- + Cool Communities Victorian State Facilitator

**Waterways & Waterbodies**

- + Norman Creek (Hanlon Park) Naturalisation
- + Small Creek Naturalisation
- + Belle Eden Waterway Naturalisation (Bundaberg)
- + Bundamba Creek Realignment
- + Little McCready's Creek Naturalisation (Mackay)
- + Flinders Lake Peer Review
- + Springfield Lakes Peer Review
- + Lilac Street, Inala - Erosion management and natural channel design
- + Lake Apex Park, Gatton - Erosion management and natural channel design
- + Iron Pot Creek, Pine Mountain - Erosion and drainage management on dispersive soils
- + Kate McGrath's Koala Park Wetland
- + Greenslopes Creek Filtration - Natural channel design
- + Cubberla St, Fig Tree Pocket - Waterway corridor mapping
- + Anglican Church Grammar School (Churchie) creek erosion
- + Little Creek Tributary - Blacktown City Council
- + Artificial Lakes Discussion Paper (project director)
- + Broлга Lakes Urban Development Proposal - peer review

**Investigations and Lake Management Plans for:**

- + Halpine Lake
- + Norfolk Lake
- + Lake Eden
- + Mungarra Lakes
- + Topaz Drive Wetland
- + Dowse Lagoon
- + Clydebank Morass
- + Billabong Parkland, Coomera Waters
- + Chancellor Park Lakes
- + Bowies Flat Wetland

**Flooding and Flood Emergency Management**

- + Established the Flood of Ideas project ([www.floodofideas.org.au](http://www.floodofideas.org.au)) to help build community resilience to floods and natural disasters
- + WaterFutures book contributor
- + Newstead Brewery FEMP
- + Blue Room Cinebar FEMP
- + Bunnings Carrara FEMP
- + Dambreak assessments for 17 large dams in the Snowy Mountains and Adelaide region

- + Overland flow path assessments for multiple residential developments

### **Erosion & Sediment Control**

- + Member, Erosion and Sediment Control Steering and Technical Advisory Group (2010)
- + Brisbane City Council Erosion Hazard Assessment Form (2014 revision)
- + Development of a regional ESC code for SEQ (with local and state government)
- + Facilitation of an ESC Industry Forum for Stormwater Queensland
- + Erosion and Sediment Control Business Case - Healthy Waterways
- + Detailed ESC Programmes for the Bundamba Creek Realignment
- + Detailed ESC Programmes for the Caltex Jetfuel pipeline and Caltex North Products pipelines
- + Detailed ESC Plans for numerous urban development subdivisions

### **AWARDS**

- + 2020 Engineers Australia Queensland Professional Engineer of the Year
- + 2020 - AILA Queensland Awards, Award of Excellence in Land Management, for Small Creek Naturalisation
- + 2020 - Australian Urban Design Awards - Leadership, Advocacy and Research - City and Regional Scale (Commendation) for Western Sydney Urban Typologies
- + 2020 - Outdoors Queensland Awards, Queensland Government Award for Outdoor Places and Spaces for Warril Parkland
- + 2019 River Basin Management Society Finalist - Outstanding Waterway Management Project, for Small Creek Naturalisation
- + 2018 - Minister's Award for Urban Design, Commendation, Excellence in Urban Design, for Small Creek Naturalisation
- + 2018 - Stormwater Australia Highly Commended Excellence in Strategic or Master Planning, for Townsville Regional Stormwater Strategy
- + 2017 - River Basin Management Society, Finalist in Involving Community in Waterway Management, for Small Creek Naturalisation
- + 2017 - AILA National Awards, Landscape Architecture Award in Land Management, for Small Creek Naturalisation
- + 2017 - Stormwater Queensland Award for Excellence in Strategic or Master Planning, for Small Creek Naturalisation
- + 2017 - Stormwater Queensland Highly Commended

- Excellence in Strategic or Master Planning, for Townsville Regional Stormwater Strategy
- + 2017 - Healthy Land and Water Awards, Finalist in Government Stewardship, for Small Creek Naturalisation
- + 2017 - AILA Queensland Awards, Award of Excellence in Land Management, for Small Creek Naturalisation
- + 2017 - AILA Queensland Awards, Award of Excellence in Tourism, for Noosa Northshore Campground
- + 2015 - World's Best New School (Learning Environments International): Noosa Flexi Learning Centre
- + 2015 - Stormwater Queensland Research and Innovation Award: Stormwater offsets discussion paper
- + 2014 - Stormwater Australia XI (Vice captain) - Stormwater Australia's honorary team of influential industry contributors
- + 2014 - Excellence in Integrated Stormwater Design: Noosa Flexi Learning Centre
- + 2014 - Healthy Waterways Urban Renewal Award: Creek Filtration Projects
- + 2014 - Stormwater Australia Excellence Award for Asset Management: Asset Management Guidelines
- + 2013 - AILA Queensland Medal for Flood of Ideas
- + 2013 - The AILA: Water by Design (the highest national award of the Australian Institute of Architects)
- + 2013 - Stormwater Queensland conference: Best Paper
- + 2012 - Stormwater Queensland conference: Best Paper
- + 2011 - Tim Fairfax Family Foundation Scholarship: Queensland Leadership
- + 2011 - Australian Water Association National Program Innovation Award: Water by Design
- + 2009 - Stormwater Queensland: Best Technical Presentation
- + 2009 - Australian Institute of Landscape Architects Excellence Award for Research and Communication: Concept Design Guidelines
- + 2009 - Stormwater Queensland Excellence Award in Stormwater Research/Education: Concept Design Guidelines
- + 2009 - Banksia Environment Award for Water (Healthy Waterways Partnership)
- + 2009 - Stormwater Australia National Excellence Award in Stormwater Education
- + 2008 - Stormwater Australia National Excellence Award in Stormwater Education
- + 2007 - Stormwater Australia National Excellence Award in Stormwater Education
- + 2007 - Planning Institute of Australia (PIA) (ACT) Presidents Award for Childers Street 'Arts Heart'

- + 2005 - Stormwater Australia National Award for Excellence in Stormwater Management - Coomera Waters Village and Resort
- + 1998 - Inaugural Sinclair Knight Merz Fellowship
- + 1998 - Gilbert Vasey Award in Agricultural Engineering

### **PUBLICATIONS**

- + Chapter 2: Water Sensitive Urban Design Approaches and Their Description in the book: Approaches to Water Sensitive Urban Design (2018) Editors: Ashok Sharma Ted Gardner Don Begbie. ISBN: 9780128128435
- + Hoban A.T. & Gambirazio C.,(2018) Implications of recent research on stormwater quality targets and practices. Proceedings, Stormwater 2018. Peer reviewed)
- + Hoban, A.T., Mills, K.M., Tanner. C.T. & Hamlyn-Harris, D (2015) Climate Change Impacts on Stormwater Harvesting Yields. Water - Journal of the Australian Water Association, Feb 2015.
- + Hoban (2014) Lifecycle Water Quality Analyses. Stormwater Queensland Conference, Noosa.
- + Hoban, Tanner, Kalinowski and Gleeson (2013) The School with no Stormwater - Noosa Flexi Learning Centre. 8th International Conference on Water Sensitive Urban Design, Gold Coast.
- + Hoban (2012) Doing things right or doing the right things? Stormwater Queensland Conference, Brisbane (awarded best paper).
- + Hoban A.T. and Kennedy, K. (2012) Community Perceptions of Streetscape Raingardens. 7th International Conference on Water Sensitive Urban Design, Brisbane.
- + Breen, P.F. and Hoban, A.T. (2009) Alternative Infiltration Basin Design. The 6th International Conference on Water Sensitive Urban Design and Hydropolis #3, Perth.
- + Hoban, A.T. and Lee, G. (2009) Interpretive Signage for Water Sensitive Urban Design. 6th International Conference on Water Sensitive Urban Design and Hydropolis #3, Perth.
- + Hoban, A.T. (2009) Design and Operation of a Best Practice Capacity Building Program. OzWater'09, Melbourne.
- + Hoban, A.T. (2008) The Mainstreaming of Water Sensitive Urban Design in South East Queensland. 11th International Riversymposium, Brisbane.
- + Hoban, A.T. (2008) Developing an Institutional Capacity Building Program for Sustainable Urban Water Management: The Results of a Needs Analysis. Stormwater'08, Gold Coast.
- + Hoban, A.T. (2008) Green Roofs and the Water Sensitive City. 2nd Australian Green Roofs Conference, Brisbane.
- + Hoban, A.T, Eadie, M.E. and Rowlands, L.P. (2007) Urban

- Design Solutions for Stormwater Treatment on Flat Sites. 5th International Water Sensitive Urban Design Conference, 21-23 August, Sydney.
- + Hoban, A.T and Rowlands, L.P. (2007) Delivering Best Practice WSUD on Flat Sites - Bellvista Estate. Stormwater Industry Association (Queensland) State Conference, September 2007.
- + Hoban, A.T and Wong, T.H.F. (2006) Water Sensitive Urban Design and Resilience to Climate Change. 1st National Hydropolis Conference, Perth.
- + Hoban, A. T., Breen, P. F, and Wong, T. H. F. (2006) Relating Water Level Variation to Vegetation Design in Constructed Wetlands Proceedings. 4th International Conference on Water Sensitive Urban Design, Melbourne.

### **OTHER ACTIVITIES**

- + Queensland Leadership 2011/12
- + Facilitation Masterclass 2011
- + Systems Thinking Masterclass 2009
- + Sessional Lecturer - QUT
- + Sessional Lecturer - Griffith University
- + Riversymposium Program Committee 2008 - 2011
- + Chair - Stormwater Qld Policy and Strategy Committee (2014)
- + RiverSymposium Program Committee (2009 - 2011)
- + RiverSymposium Urban Rivers Session Chair (2008 - 2009)
- + Awards Judge: Stormwater Australia, Stormwater Queensland, Engineers Australia Michael Woodhouse Award
- + Urban Stormwater Quality Working Group - Water Sensitive Urban Design Chair (2008/09)
- + UDIA EnviroDevelopment Technical Standards Taskforce (2013)
- + Urban Stormwater Quality Management Group (2010 - 2012)
- + SEQ Executive Officers Group on Natural Resource Management (2012)
- + AWA Policy and Strategy Committee (2011 - 2013)
- + GreenStar advisor on stormwater standards (2012)
- + Water Industry Capacity Development (WICD) University Project Roundtable
- + Australian Deans of Science Forum (2013)
- + Queensland 30 Year Water Plan Innovation Roundtable (2014)
- + St Olafs Minnesota Study Tour (annually, 2012 - ongoing)

### **AFFILIATIONS**

- + Fellow, Institution of Engineers, Australia (FIEAust)
- + Member, Stormwater Industry Association
- + Member, Australian Water Association

- + Member, Queensland Environmental Law Association

## **EMPLOYMENT HISTORY**

### **2017 - present**

- + **Director**  
Stormwater Australia

### **2012 - present**

- + **Director/Principal Engineer**  
Bligh Tanner, Brisbane

### **2007 - 2012**

- + **Executive Manager**  
Water by Design, Healthy Waterways,  
Brisbane

### **2003 - 2007**

- + **Associate Director**
- + **Senior Engineer**  
AECOM / Ecological Engineering,  
Brisbane, Melbourne & Singapore

### **2003 - 2005**

- + **Director & Co-Founder**  
Flexicar.com.au, Melbourne -  
Business was subsequently sold to  
Hertz Australia

### **2001**

- + **Energy Efficiency Facilitator**  
Environment Victoria

### **1999 - 2000**

- + **Environmental Advisor**  
Royal Thai Government

### **1997 - 1998**

- + **Graduate Engineer**  
Sinclair Knight Merz, Melbourne (now  
Jacobs)