

CIWEM HK STUDY MISSION TO BRISBANE.....A WATER SMART CITY 4-10 MARCH 2010



Organised by
The Chartered Institution of Water and Environmental Management Hong Kong

Sponsored by
Veolia Water South China Ltd



Brisbane is the capital of the Australian state of Queensland and is the third most populous city in Australia. By 2026, Brisbane will be a water-smart subtropical City – its water cycle will provide an ongoing source of fit-for-purpose water for human and ecological needs. The community and waterway health will be safeguarded through fit-for-purpose water supplies and comprehensive catchment management. Brisbane River and Moreton Bay catchments will be managed so that water resources to sustain Brisbane's prosperity.

The Integrated Water Cycle management Strategy: Brisbane, dedicated to a 'Water Smart City', has been developed. This strategy provides the long-term plan to establish Brisbane as a Water Smart City. Hence, strategic management, timely and cost-efficient planning, construction and maintenance of water and wastewater assets are necessary for effective and efficient delivery of potable water and wastewater services. CIWEM HK organises this study mission aiming to explore Brisbane's valuable experience in these aspects.

WHO SHOULD JOIN? Environmental and engineering professionals and managers, government officials, properties developers, industry entrepreneurs and operators, business and sustainability development managers, academia, and those interested in exploring the state-of-the-technology in water science are welcome. Special highlights of this study mission are outlined as follows:

Bundamba Advanced Wastewater Recycling Treatment Plant

The Western Corridor Recycled Water Project builds a water supply network for the South East Queensland consisting of more than 200 km of large diameter underground pipeline, 3 advanced water treatment plants, 8 storage tanks and 9 pumping stations. This supply network has the capacity to deliver up to 232 megalitres per day of purified recycled water to power stations, industry, agriculture and the Wivenhoe Dam. Three advanced water treatment plants form the backbone of the Western Corridor Recycled Water Project. The plant, located at Bundamba, Luggage Point and Gibson Island, uses world-class technologies to produce purified recycled water. The advanced water treatment plant creates purified recycled water by further treating secondary treated wastewater to remove suspended solids, dissolved salts, organic chemicals and microorganisms such as viruses, bacteria and parasites. The Bundamba Advanced Water Treatment Plant will have the capacity to produce up to 66 megalitres of purified recycled water a day. The plant's main treatment steps – ultra-filtration, reverse osmosis membranes, and advanced oxidation using ultraviolet irradiation and hydrogen peroxide – represent some of the latest technologies used in water reclamation.

Gold Coast Desalination Plant

The Gold Coast Desalination Plant has supplied its first water to Gold Coast residents and businesses since February 2009. This Project, originally initiated by Gold Coast City Council and now owned by government statutory authority WaterSecure, is the largest water desalination plant in Australia's eastern seaboard. Located at Tugun on an 8.6 hectare former landfill site, the plant has the capacity to supply up to 133 megalitres a day of pure drinking water to South East Queensland, one of Australia's worst drought affected regions in recent times. The facility is a vital element in the State Government's \$9 billion South East Queensland Water Grid. The plant has the capacity to produce water for more than 650,000 people at Target 200 levels, saving valuable water in dams.

Ozwater'10 Trade Exhibition (www.ozwater10.com.au)

The Trade Exhibition of Ozwater'10 is Australia's leading event in the water industry. More than 200 comprehensive displays will showcase all that is new and exciting in the industry. It will be a one-stop shop for all practitioners to get valuable information. Admission of our participants will be registered in advance.

Oxley Creek Wastewater Treatment Plant (www.aquatecmaxcon.com.au)

Oxley Creek WWTP is part of an Alliance which also includes upgrades to Sandgate, Wynnum and Wacol WWTP. This innovative concept involves Brisbane Water, Aquatec-Maxcon, John Holland Group, Montgomery Watson and John Wilson and Partners. The Oxley Creek WWTP is in Rocklea adjacent to an established industrial area. It is bordered by residential properties to the north. The plant discharges treated wastewater into the Brisbane River during dry weather, with some discharge into Oxley Creek during wet weather events. The upgrade concept to the Oxley Creek WWTP involves an expansion of the plant onto Council owned land to the south of the existing plant. New state-of-the-art equipment will be installed to improve treatment, capacity and reduce odour impacts to nearby properties.

Meeting with South East Queensland Water Authority on Sunshine Coast

Representatives from the Queensland Water Directorate, University and SCT Centre will share experience with all participants of this study mission. Luncheon discussion will be followed by a technical visit.

PRELIMINARY PROGRAMME (TO BE CONFIRMED)

<u>Date</u>	<u>Activity</u>
4 March 2010 (Thu)	Depart from Hong Kong (at noon on 4 March 2010) and arrive in Brisbane (evening)
5 March 2010 (Fri)	Attend training workshop
6 March 2010 (Sat)	Visit to Bundamba Advanced Wastewater Recycling Treatment Plant Visit to Gold Coast Desalination Plant
7 March 2010 (Sun)	Wetland excursion
8 March 2010 (Mon)	Attend Ozwater'10 trade exhibition
9 March 2010 (Tue)	Visit to Oxley Creek Wastewater Treatment Plant Meet with South East Queensland Water Authority on Sunshine Coast
10 March 2010 (Wed)	Depart from Brisbane (mid night) and arrive in Hong Kong (early morning on 10 March 2010)

STUDY MISSION FEE

HK\$16,000 per person, which includes:

- Return air tickets to and from Hong Kong and Brisbane, including tax and fuel surcharge;
- Local transportation in Brisbane by coach;
- Hotel accommodation in Brisbane based on single room occupancy for 5 nights (not including personal expenses, e.g. telephone call, laundry, room service, etc); and
- All meals including standard breakfast, lunch and dinner.

Notes: **Personal travel insurance is NOT included**. Participants should arrange for your own travel insurance throughout this study mission and ensure your travel documents entering Australia are valid. The official language will be English and no translation will be provided. Transportation and hotel accommodation will be arranged by a licensed travel agent.

REGISTRATION

The number of delegates will be 20 on a first-come-first-served basis. Please complete and return your registration form to Ms Jennifer Chan on or before 26 February 2010 via email (jennifer.chan@veoliawater.com) or by fax (2565 4867). Successful registrants will be notified individually for payment. For details, please contact Paper Lam via email: technicalvisit@gmail.com or phone: 6273 9935.

IMPORTANT NOTES

1. Attendance certificates will be issued to participants after the study mission.
2. Information provided by registrants will be used for the enrollment and matters related to this study mission.
3. Upon confirmation of registration and payment, the fee for study mission is NOT refundable.
4. Adverse weather arrangement: the study mission will be canceled if a typhoon signal No. 8 or above, or a black rainstorm warning, is still issued after 9:00am on 4 March 2010 for departure from Hong Kong to Brisbane. CIWEM HK will notify the participants for the subsequent arrangement.
5. The programme will be subject to change and CIWEM HK reserves the right for any changes of the programme without prior notice.

To: Ms Jennifer Chan (By Fax: 2565 4867 or By Email: jennifer.chan@veoliawater.com)



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Registration Form

Please complete in BLOCK LETTERS (*delete as appropriate)

Surname (Mr / Ms*) : _____
Given Name : _____
HKID Card No. : _____ (____)
Travel Document Type : Passport / others (please specify)*
Travel Document No. : _____
Company Name : _____
Position : _____
Office Phone No. : _____
Mobile Phone No. : _____
Office Fax No. : _____
Email Address : _____
Correspondence Address : _____

Emergency Contact Person : _____
Emergency Contact Phone : _____
CIWEM Membership No. : _____

Signature: _____ Date: _____

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