

# Wastewater Systems Design & Management Workshop



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## 6 SEPTEMBER 2018

**Is your wastewater treatment plant operating well?**

**Do you need staff training in this area? Do you want to cut the costs of running your plant?**

**Have you recently installed new equipment?**

Many companies need to operate and manage their wastewater treatment systems to remain in compliance and reduce high costs associated with sewage and waste disposal. To help sites better manage their wastewater systems this workshop takes you through the range of processes and regulatory requirements needed to select and operate your wastewater system at its optimum level.

This course covers:

- ✓ Overview of Sydney Water's Trade Waste policy and agreement processes
- ✓ Discharge limits and approaches under Environment Protection Licences
- ✓ Upstream focus on cleaner production and reducing the load on the treatment plant
- ✓ An in depth look at a Sydney Water Tradewaste Agreement
- ✓ **Treatment systems covered**
  - **Preliminary Treatment** → Screening and balancing
  - **Physical separation:** → Dissolved Air Flotation, filtration, settling systems, dewatering, screening, filtration, RO and management of sludge etc.
  - **Biological:** → The process of BOD reduction using activated sludge, anaerobic versus aerobic
  - **Chemical treatments:** → Understanding coagulants and flocculants, filter aids etc.
- ✓ Solid and liquid waste management and costs and how to reduce them

### Details at a glance

Date: 6 September 2018 – Sydney area  
Time: 8:30 am – 5 pm; Registration from 8:20 am.  
Venue: Revesby Workers Club, 2B Brett Street,  
REVESBY

# WASTEWATER SYSTEMS DESIGN AND MANAGEMENT - AGENDA

|          |  |  |
|----------|--|--|
| 8:20 am  | Registration and Coffee  |  |
| 8:30 am  | Welcome and Introduction   | ASBG   |
| 8:35     | <b>Overview Of Trade Waste Policy</b> — sewer limits and changes to Sydney Water's standards including proposed charge rates e.g. BOD increases                      | <b>Farid Guirguis</b> ,<br>Technical Specialist, ,<br>Sydney Water |
| 9:15     | <b>Other regulatory issues</b> , limits and legal processes involving waste water and its by-products  | <b>Andrew Doig</b> , ASBG  |
| 9:45     | <b>The Major Costs of Treating Wastewater:</b> A look at the main costs of treating water including an overview of a Sydney Water Tradewaste Agreement               | <b>James Hall</b> , Director<br>Hydroflux Industrial               |
| 10:30    | <b>Morning coffee and Networking</b>   |  |
| 10:50    | <b>An Introduction to Wastewater Treatment</b> – A review of the four fundamental process steps of industrial water treatment and what each achieves.                | <b>Mitch Hastings</b> ,<br>Hydroflux Industrial                    |
| 11:30    | <b>Preliminary Treatment</b> - What is preliminary treatment and why is it important? A look at the two main process steps used to undertake preliminary treatment.  | <b>Matthew Pugh</b> ,<br>Director, Hydroflux<br>Utilities          |
| 12:00 pm | <b>Lunch</b>   |  |
| 12:45    | <b>Primary Treatment Overview</b> – Why do primary treatment? Learn the secret to making it work effectively, including a discussion on primary treatment chemistry. | <b>Bruce Willis</b> , Hydroflux<br>Utilities                       |
| 1:00     | <b>Primary Treatment Equipment</b> - Dissolved Air Floatation and clarifiers explained   | <b>Mathew Pugh</b>   |
| 1:50     | <b>Secondary Treatment</b> – What it does and how it works. Aerobic vs anaerobic   | <b>Bruce Willis</b>  |
| 2:20     | <b>Tertiary Treatment Process</b> --. – Filtration, disinfection and reverse osmosis   | <b>Mitch Hastings</b>  |
| 3:05     | <b>Afternoon Tea</b>   |  |
|          | <b>Sludge Management</b> – dewatering options to reduce offsite disposal costs   | <b>James Hall</b>  |
|          | <b>WORKSHOP</b> - Participants are invited to bring their own wastewater treatment plant problems with them and have them analyzed by our team of experts            | <b>All</b>   |
| 5:00     | <b>Close</b>   |  |

| PRICE (incl GST)   | VENUE  | DATE  |
|--|--|---|
| ASBG, NSW BC members, Hydroflux clients and supporters <b>\$395</b> Non-Member <b>\$495</b><br>E-notes, morning tea is included in the package | Revesby Workers Club,<br>2B Brett Street,<br>REVESBY | <b>6 September 2018</b><br>8:30 am to 5:00 pm |

**REGISTER ME FOR THE** *Wastewater Design Workshop* **See other courses and events:** [www.asbg.net.au](http://www.asbg.net.au) Fax 1300 303 816 **Click here to register** Phone (02) 9453 3348 for info. Email [asbg@asbg.net.au](mailto:asbg@asbg.net.au)



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**PAYMENT DETAILS:** Cheques payable to ASBG Pty Ltd ABN 71 100 753 900 or

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**Cancellation:** If you are unable to attend, a substitute delegate from your organization is welcome at no extra charge. No refunds for cancellations in writing closer than 3 working days from the event no refunds can be made, but notes will be forwarded following the event. See [ASBG's terms](#) for details. A **Tax Invoice** will be issued for each registration. **Confirmation** will be provided one week prior to the course if registration received.

