

Regional forum

AGENDA

Dates	12-13 November 2018
Time	8:30am -5:00pm 12 th November, 8:00am – 5:00pm 13 th November
Venue	Rydges Southbank, Palmer street, Townsville

Regional forum	n objectives
Objective 1:	To share information and options for treatment systems for water quality improvement.
Objective 2:	To identify how various treatment systems can be used to achieve sediment, nutrient and pesticide reductions and water quality improvements.

Working together to identify, understand and manage our wetlands.

The regional forum is an initiative of the Department of Agriculture and Fisheries and the Department of Environment and Science (Queensland Wetlands Program).





8.30am	Tea/Coffee	nday 12 November
	Setting the scene	
8:45am	Welcome and housekeeping	Carla Wegscheidl, DAF
J. 154111	Introduction to the forum	Matthew Griffiths, DES
9:00am	The role of treatment systems in improving water quality to	Adam West, DAF
5.000	the Great Barrier Reef	, raa 10000, 27
9:20am	Queensland Government Reef Water Quality initiatives	Ben Hammill, Office of the Great Barrier Reef
Session 2:	Tools and information	
9:30am	Treatment Systems toolbox	Carla Wegscheidl, DAF
	Nutrient conceptual models and community of practice	Matthew Griffiths, DES
Session 3:	Treatment system options	
9:45am	Overview of different treatment options, case studies, pros and cons (20 mins presentation, 10 mins questions): 1. Denitrification bioreactors 2. Bioremediation of wastewater using freshwater macroalgae	Louis Schipper, Uni of Waikato Rocky de Nys, James Cook Uni, MBD Industries
10:45am	Morning tea	
	Treatment system options (continued)	
11:15am	Overview of different treatment options, case studies, pros and cons (20 mins presentation, 10 mins questions): 3. High Efficiency Sediment (HES) basins 4. Recycle pits 5. Micronutrient dosing – growing diatoms for reducing nitrogen levels	Adrian Crocetti, Water by Design Evan Shannon, FarmAcist Simon Tannock, AlgaEnviro
12.45pm	Lunch	
	Treatment system options (continued)	
1:30pm	Overview of different treatment options, case studies, pros and cons (20 mins presentation, 10 mins questions): 6. Reactive Filter Media	Eric Love, Centre for Organic Research & Education (CORE)
Session 6:	Treatment systems in urban areas – lessons learned	
2:00pm 2:15pm	Water sensitive urban design in Townsville City Recent research on stormwater quality targets & practices	Chris Manning, Townsville City Council Alan Hoban, Bligh Tanner
2:30pm	Questions and discussion	
2.40pm	Afternoon tea	
	Treatment systems in agricultural areas – lessons learned	Averaglian Method Continu
3.00pm	 Brief introduction and lessons learned: Wet Tropics treatment systems in MIPs Babinda wetland and bioreactors Burdekin bioreactors Burdekin treatment wetland 	Australian Wetlands Consulting William Darveniza – Canegrowers/Wet tropics MIP Liz Owen - Jaragun NRM Fabio Manca - QUT Arwen Rickert – BBIFMAC
4.20pm	Panel discussion and questions from the audience	
Session 8: \		
4:50pm	Wrap-up of the day and information for the field trip	Carla Wegscheidl

DAY 2 Site	e Visits Tue	sday 13 November	
	Travel to Burdekin		
7:45am	Assemble outside Rydges Southbank, Palmer street,		
	Townsville		
8:00am	Bus departs for Burdekin		
Site visit 1: Co	nstructed treatment wetland		
9:00-9:30am	Constructed treatment wetland on a cane farm, Barratta	Australian Wetlands Consulting	
	Ck	Terri Buono, DAF	
9:50-	Morning tea at Mio's college		
10:15am			
Site visit 2: Bio	oreactor		
10:45-	Bioreactor bed on a cane farm, Airville	Carla Wegscheidl, DAF	
11:15am		Fabio Manca, QUT	
11:15am	:15pm Lunch at DAF Research Station, Ayr	Fabio Manca, QUT	
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11:15am 11.45pm – 12:	:15pm Lunch at DAF Research Station, Ayr cific Reef Fisheries aquaculture facility – Algae treatment	Fabio Manca, QUT	
11:15am 11.45pm – 12:		Fabio Manca, QUT Wayne Di Bartolo, Pacific Reef	
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