



ABN 96 053 888

AGCSA Water Management Workshop

In 2007 the Australian Golf Industry Council (AGIC) conducted research into how the current drought and subsequent water restrictions have impacted Australian golf courses. Alarmingly, the study found that only 40% of golf courses across the country had a formal water management plan in place.

To fill this void, 2009 saw the AGCSA launch its online 'Water Management Review'. A component of the AGCSA's Water Management Initiative, the review is aimed at golf clubs that do not have a water management plan and provides golf course personnel with an easy to use template. The review comprises a detailed online questionnaire, which when completed will generate a comprehensive report outlining your clubs current water status. The management review also identifies and outlines where efficiencies can be made.

To help assist golf clubs to implement the Water Management Review, the AGCSA will be conducting a series of workshops across Victoria, South Australia and Tasmania. All workshops are to be held in TAFE colleges whereby attendees will have access to a computer. Please Note: Places are limited so book early to guarantee a spot. The workshops will be facilitated by the AGCSA's John Geary or Daryl Sellar.

To access the Water Management Review please visit the AGCSA'S Water Initiative web portal;
<http://water.agcsa.com.au/water-management-review>



| | | |
|---------------|---------------------------------------|----------------|
| WHERE: | VICTORIA | |
| | Northern Melbourne Institute of TAFE | Mon, March 22 |
| | Gordon Institute of TAFE | Tues, March 23 |
| | Chisholm Institute of TAFE | Wed, March 24 |
| | SOUTH AUSTRALIA | |
| | Urrbrae TAFE | Tues March 23 |
| | TASMANIA | TBC |
| TIME: | 8.30am registration | |
| | 8.45 – 12.45pm (includes Morning Tea) | |
| COST: | Members FREE | |
| | \$60.00 Non Members (GST Inc) | |

Members of the AAP will earn 3 CEP's by attending this workshop

Name:

Organisation:

Membership Number:.....

Mobile: Email:.....

I will be attending:

- Northern Melbourne Institute of TAFE South Australia
- Gordon Institute of TAFE
- Chisholm Institute of TAFE Tasmania

Registration for this event must be received by the AGCSA by close of business Wednesday March 17 2010.

Send/fax completed registration form and payment:
AGCSA, Suite 1, Monash Corporate Centre, 752 Blackburn Road, Clayton, VIC 3168 Fax (03) 9548 8622
If you have any queries please contact John Geary on 03 9548 8600



ATTENDEES CHECKLIST

The Water Management Review questionnaire is comprehensive and asks for input on a range of topics. To help fast track the completion of the questionnaire the following information should be collated before attending the workshop.

✓ Does your golf club have a Water Policy? If so, please document.

✓ Regulatory Framework:

The primary legislation, regulations and guidelines of particular significance to water use include;

- Type of licence
- Issuing Authority
- Relevant information
- Expiry date

✓ Turf Survey

The predominant turfgrass species and cultivars include;

| | Number | Grass species/cultivar | Irrigated Area (Ha) |
|----------------------|--------|------------------------|---------------------|
| Greens | | | |
| Green Surrounds | | | |
| Tees | | | |
| Fairways | | | |
| Practice Fairway | | | |
| Turf Nursery | | | |
| Other | | | |
| Total Irrigated Area | | | |

✓ Water Sources

Please indicate the water sources currently being used for irrigation and the volume available per year.

| | Current Permit | Permit amount (Megalitre) |
|-----------------------|----------------|---------------------------|
| Dam(s) and Lake(s) | | |
| River Extraction | | |
| Bore Extraction | | |
| Recycled Water | | |
| Above Ground Tanks | | |
| Other | | |
| Total Available Water | | |

✓ Water/Irrigation Costs

Please complete the following;

| | Comments (2009/2010 Budget) | 2008/2009 Budget Annual Expense | 2009/2010 Budget Annual Expenses |
|----------------------------------|-----------------------------|---------------------------------|----------------------------------|
| Potable Water | | | |
| Recycled Water | | | |
| Bore License | | | |
| Irrigation Repairs & Maintenance | | | |
| Other | | | |
| Other | | | |
| Total Water Costs | | | |
| Cost/ML | | | |



Water Quality
Please complete the following;

| Name of Water Source | |
|---|--|
| pH, units | |
| Electrical Conductivity (micro S/cm @ 25 C) | |
| Salinity by calculation (mg/L) | |
| Bicarbonate as HCO ₃ (mg/L) | |
| Carbonate as CO ₃ (mg/L) | |
| Calcium as Ca (mg/L) | |
| Sodium as Na (mg/L) | |
| Chloride as Cl (mg/L) | |
| Residual Sodium Carbonate (calc) | |
| Sodium Adsorption Ratio - SAR | |

Sprinkler Make and Model Data
Please outline the sprinkler make and model specification data for the following;

| | Make | Model | Nozzle Size | Operating Pressure | Sprinkler Flow Rate | Precipitation Rate | Spacing's |
|------------------|------|-------|-------------|--------------------|---------------------|--------------------|-----------|
| Greens | | | | | | | |
| Green Surrounds | | | | | | | |
| Tees | | | | | | | |
| Fairways | | | | | | | |
| Practice Fairway | | | | | | | |
| Turf Nursery | | | | | | | |
| Other | | | | | | | |

Irrigation Schedule
Please complete the following;

| | Area (Ha) | Frequency/week | Volume/cycle (L) | Mm/Irrigation cycle |
|------------------|-----------|----------------|------------------|---------------------|
| Greens | | | | |
| Green Surrounds | | | | |
| Tees | | | | |
| Fairways | | | | |
| Practice Fairway | | | | |
| Turf Nursery | | | | |
| Other | | | | |
| Total | | | | |





✓ Pumps Data
Please complete the following;

| | Details |
|-------------------|---------|
| Pump Manufacturer | |
| Model Description | |
| Pump Type | |
| Power Unit | |
| Design Duty | |
| Pump Efficiency | |

✓ Fertigation Data
Please complete the following;

| | Details |
|--------------------------|---------|
| Fertigation Manufacturer | |
| Model Description | |
| Type | |
| Capacity | |

✓ Filter Data
Please complete the following;

| | Details |
|---------------------------|---------|
| Filter Manufacturer | |
| Model Description | |
| Type | |
| Backflushing Requirements | |
| Backflush Water | |

Principal Partners

