

Lachlan Region - Algae Alert Status

14 August, 2026

This Blue-green algal (BGA) alert report is based on routine monitoring at sites in the Lachlan Algae Reporting Area. The sites are monitored by WaterNSW and local councils. Satellite imagery may be used to supplement the monitoring data.

Red Alerts

Amber Alerts

- Wyangala Abercrombie River
- Lake Brewster Inflow Wetland
- Lake Cargelligo Boatshed
- Lake Cargelligo Town Water Supply

Green Alerts

- Lachlan River at Booligal
- Wyangala Junction of Lachlan and Sandy Creeks

Comments: Weekly seasonal algal monitoring has ended for Lake Brewster and Lake Cargelligo systems for this algal season. Monthly sampling will continue until September. Increased monitoring will be implemented as required in response to alerts.

Weather Forecast: The 3 monthly outlook from the Bureau is as follows:

- **Rainfall** is 25 to 35% chance of **above** the long term median rainfall across most of the Lachlan catchment.
- **Daytime temperatures** are >80% likely to be **above** the long-term median temperature across most of the Lachlan catchment.
- **Overnight temperatures** are >80 % likely to be **above** the long-term median temperature across most of the Lachlan catchment.
(Source: [Bureau of Meteorology \(BoM\)](#))

Algae Outlook: Algal risk remains low due to seasonal cooling where water is flowing. Algal assemblages in the Lachlan system are dominated by growth of mainly diatoms, monads and green alga. Changes in environmental conditions may lead to a shift in taxa to more problematic species.

Satellite image observations start on page 3 of this report.

Results Table

Table 1: Current blue-green algal alerts in the catchment of the Lachlan River.

Site	Description	Latest Sample Date	Cyanobacteria Total Count (cells/mL)	Cyanobacteria Biovolume (mm ³ /L)	Potentially Toxic Cyanobacterial Count (cells/mL)	Potentially Toxic Cyanobacterial Biovolume (mm ³ /L)	Current Status (Based on Latest Sample)	Previous Status	Cyanobacteria Dominant Potentially Toxic Taxa	Comments on Dominant Potentially Toxic Cyanobacteria Taxa
Wyangala Dam										
DWYA01	Wyangala Junction Lachlan & Abercrombie	21/07/2026	959	0.000	0	0.000	No Alert	No Alert		
DWYA02	Wyangala Junction Lachlan & Sandy Ck	21/07/2026	3829	0.043	1500	0.041	GREEN	No Alert	<i>Microcystis sp.</i>	Potentially toxic, taste & odour
DWYA05	Wyangala Abercrombie R	21/07/2026	0	0.000	0	0.000	AMBER*	AMBER		
DWYA06	Wyangala Inland Waters Park	21/07/2026	1644	0.001	0	0.000	No Alert	No Alert		
DWYA08	Wyangala Dam Wall Station 1	21/07/2026	0	0.000	0	0.000	No Alert	No Alert		
DWYA04	Wyangala Dam Downstream	21/07/2026	1507	0.001	0	0.000	No Alert	No Alert		
N1168	Lachlan River at Cowra	8/07/2026	0	0.000	0	0.000	No Alert	No Alert		
Carcoar Dam										
DCAR01	Carcoar Dam Station 1 (Dam Wall)	21/07/2026	205	0.005	205	0.005	No Alert	No Alert	<i>Microcystis sp.</i>	Potentially toxic,
DCAR02	Carcoar Downstream (Belubula River)	21/07/2026	0	0.000	0	0.000	No Alert	No Alert		
N1022	Lachlan River at Cottons Weir (Forbes)	7/07/2026	0	0.000	0	0.000	No Alert	No Alert		
N1024	Lachlan River @ Condobolin Bridge	7/07/2026	137	0.001	0	0.000	No Alert	No Alert		
Lake Cargelligo										
DCRG04	Lake Cargelligo Weir	3/08/2026	0	0.000	0	0.000	No Alert	No Alert		
DCRG06	Lachlan River downstream of Lake Cargelligo Weir	3/08/2026	0	0.000	0	0.000	No Alert	No Alert		
DCRG05	Lake Cargelligo intake downstream of Curlew Waters	3/08/2026	822	0.000	0	0.000	No Alert	No Alert		
DCRG02	Lake Cargelligo Town Water Supply 41210042	3/08/2026	10713	0.015	0	0.000	AMBER*	AMBER		
DCRG03	Lake Cargelligo Boatshed	3/08/2026	9109	0.011	0	0.000	AMBER*	AMBER		
DCRG01	Lake Cargelligo Outlet @ Lake Creek	3/08/2026	2055	0.002	0	0.000	No Alert	AMBER		
Lake Brewster										
DBRW01	Lake Brewster Inflow 412102	3/08/2026	2884	0.002	0	0.000	No Alert	No Alert		
DBRW02	Lake Brewster Inf wetland u/s eastern spillway	7/07/2026	38083	0.050	0	0.000	AMBER	AMBER		
DBRW03	Lake Brewster Regulator C	3/08/2026	9681	0.014	0	0.000	No Alert	AMBER		
DBRW04	Lake Brewster Outlet Channel 412108	3/08/2026	12877	0.015	0	0.000	No Alert	No Alert		
DL0S06	Lachlan River @ Willandra Weir	3/08/2026	25206	0.033	0	0.000	No Alert	No Alert		
N1025	Lachlan River at Hillston	15/07/2026	17953	0.017	0	0.000	No Alert	GREEN		
N1023	Lachlan River at Booligal	15/07/2026	33032	0.041	154	0.003	GREEN	GREEN	<i>Microcystis sp.</i>	Potentially toxic, taste & odour
N1026	Lachlan River at Corrong	14/07/2026	26316	0.026	0	0.000	No Alert	GREEN		

*Indicates that sampling results show algal numbers have reduced, however another low sampling result is required to reduce the alert to a lower level.

Satellite Imagery

The key to the algae approximate concentrations using the Custom Algae (CA) Script is to provide a starting reference only (Table 2). The actual values can potentially vary by a significant margin due to the geology of the waterbody, species of algae, turbidity, aquatic plants, time of day of the image capture, aerosols in the atmosphere etc. This variability is a result of the nature of satellite imagery being a large-scale remote sensing format and is not function of the technology or the script itself. Therefore, these colours and descriptors are not the official “Algae Alert Level” but rather provides information on the potential risk on algae formation.

Table 2: Observed risk levels based on probable chlorophyll-a concentration for Custom Algae Script

Map Colour	Risk Level*	Starting concentration guide range	RACC recreational alert values approx. equivalence
Blue	Very low	<0.05 mm ³ /L	No Alert
Green	Low	0.05 to 0.5 mm ³ /L	Green
Yellow	Medium	0.5 to 5.0 mm ³ /L	Amber
Red	High	5.0 to 20.0 mm ³ /L	Red
Dark red	Extreme	> 20 mm ³ /L	Red

Note: Satellite images are usually more recent than the sampling data and therefore may contribute to not agreeing with sampled algae results. So please check dates when comparing.

Satellite Image Observations (Figures 1 through 4)

Wyangala Dam: Low levels of photosynthetic activity were indicated by the satellite imagery on the 8th of August (Figure 1). Subsequent images were limited by cloud coverage.

Carcoar Dam: Low to moderate levels of photosynthetic activity were indicated by the satellite imagery on the 17th of July (Figure 2). The image is partially limited by interferences and cloud coverage. Subsequent images are also limited by significant cloud coverage and interferences.

Lake Cargelligo: Low levels of photosynthetic activity were indicated by the satellite imagery on the 12th of August (Figure 3).

Lake Brewster: Low to moderate levels of photosynthetic activity are visible in the western auxiliary cells and the main storage as indicated by the satellite imagery on the 12th of August (Figure 4).



Figure 1. Wyangala Dam 08/08/2026 Sentinel Hub [CC BY-NC 4.0] NSW-Custom Algae Script - TF, WaterNSW

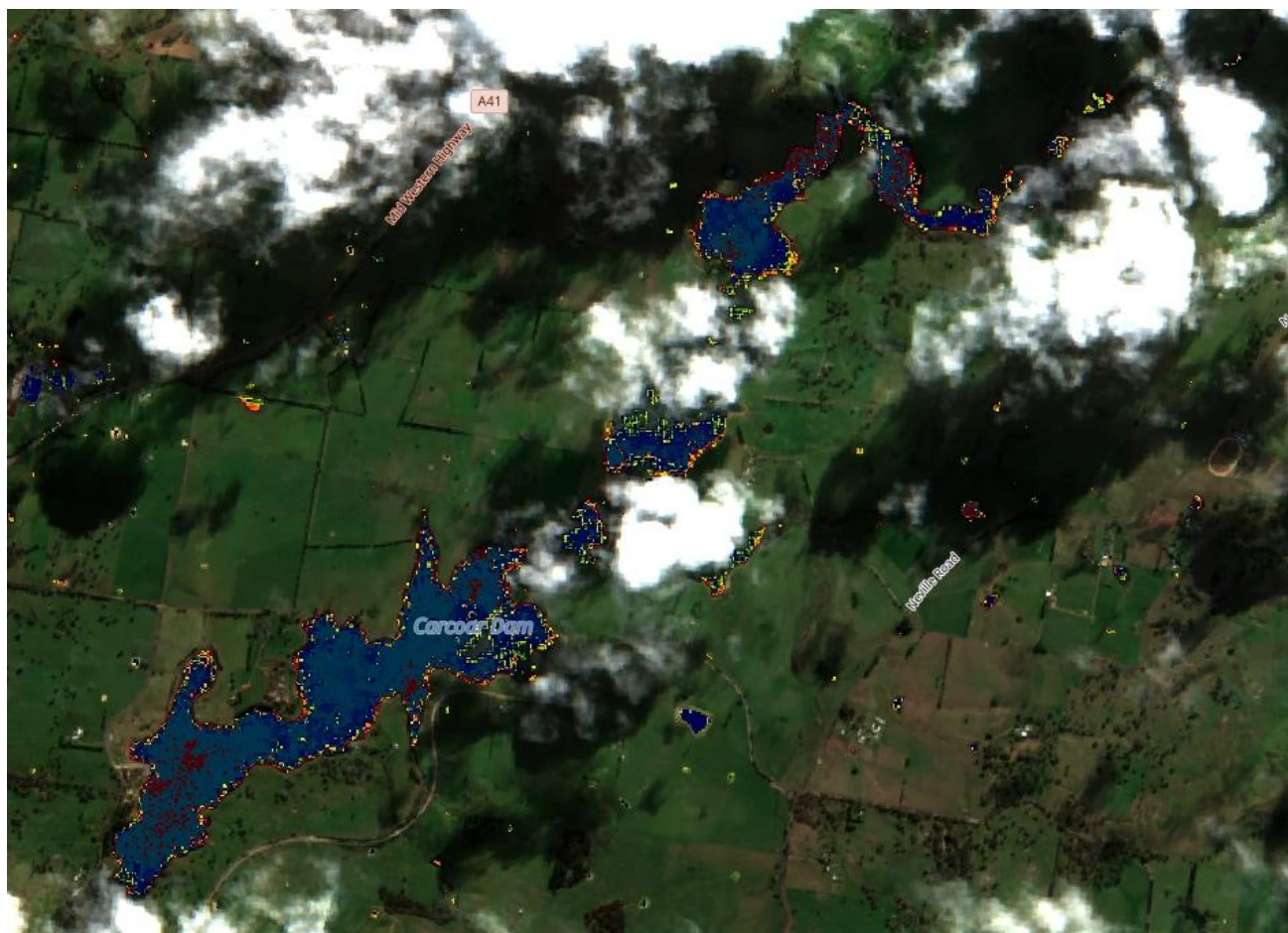


Figure 2. Carcoar Dam 17/07/2026 Sentinel Hub [CC BY-NC 4.0] NSW-Custom Algae Script - TF, WaterNSW

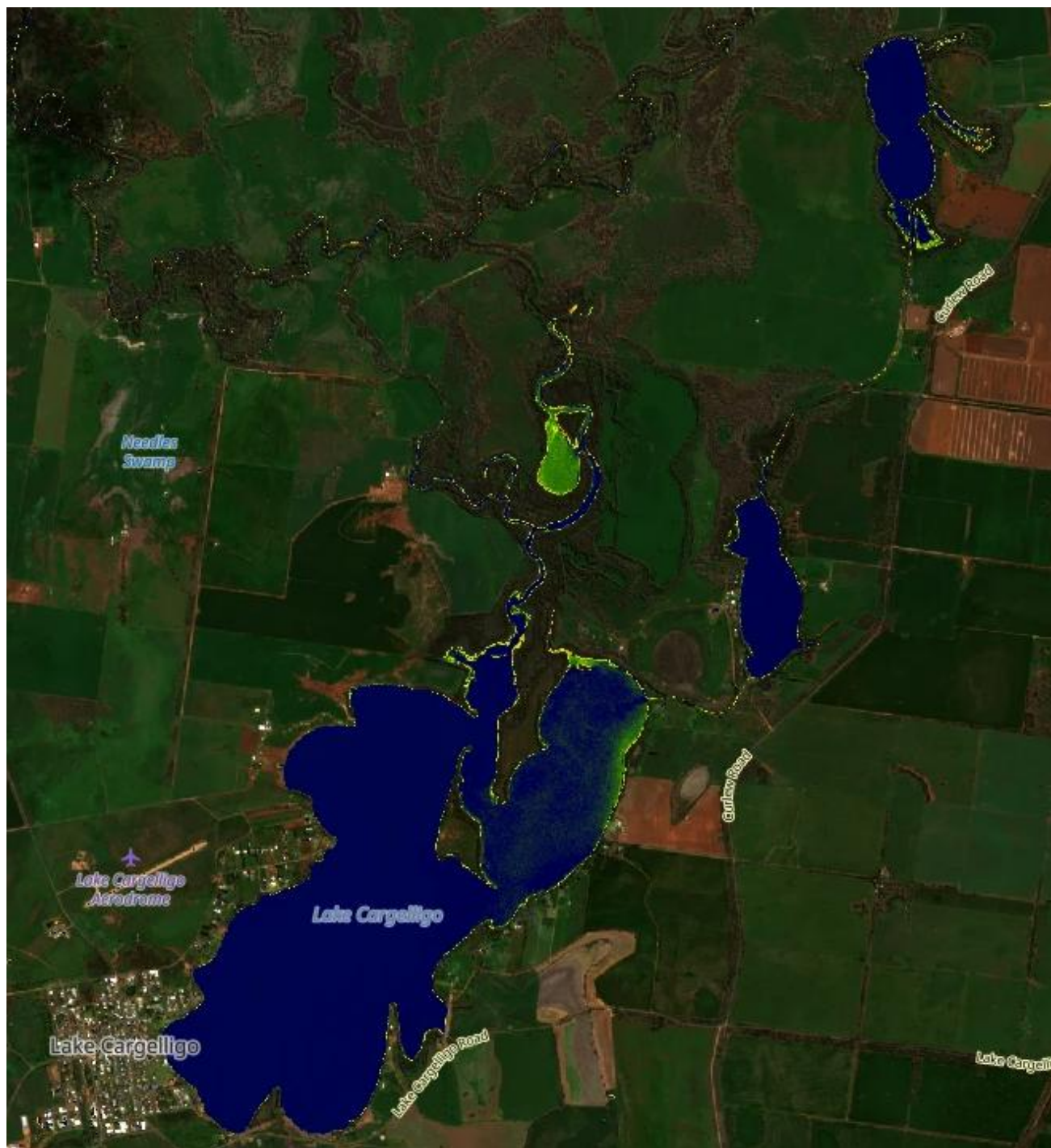


Figure 3. Lake Cargelligo 12/08/2026 Sentinel Hub [CC BY-NC 4.0] NSW-Custom Algae Script - TF, WaterNSW

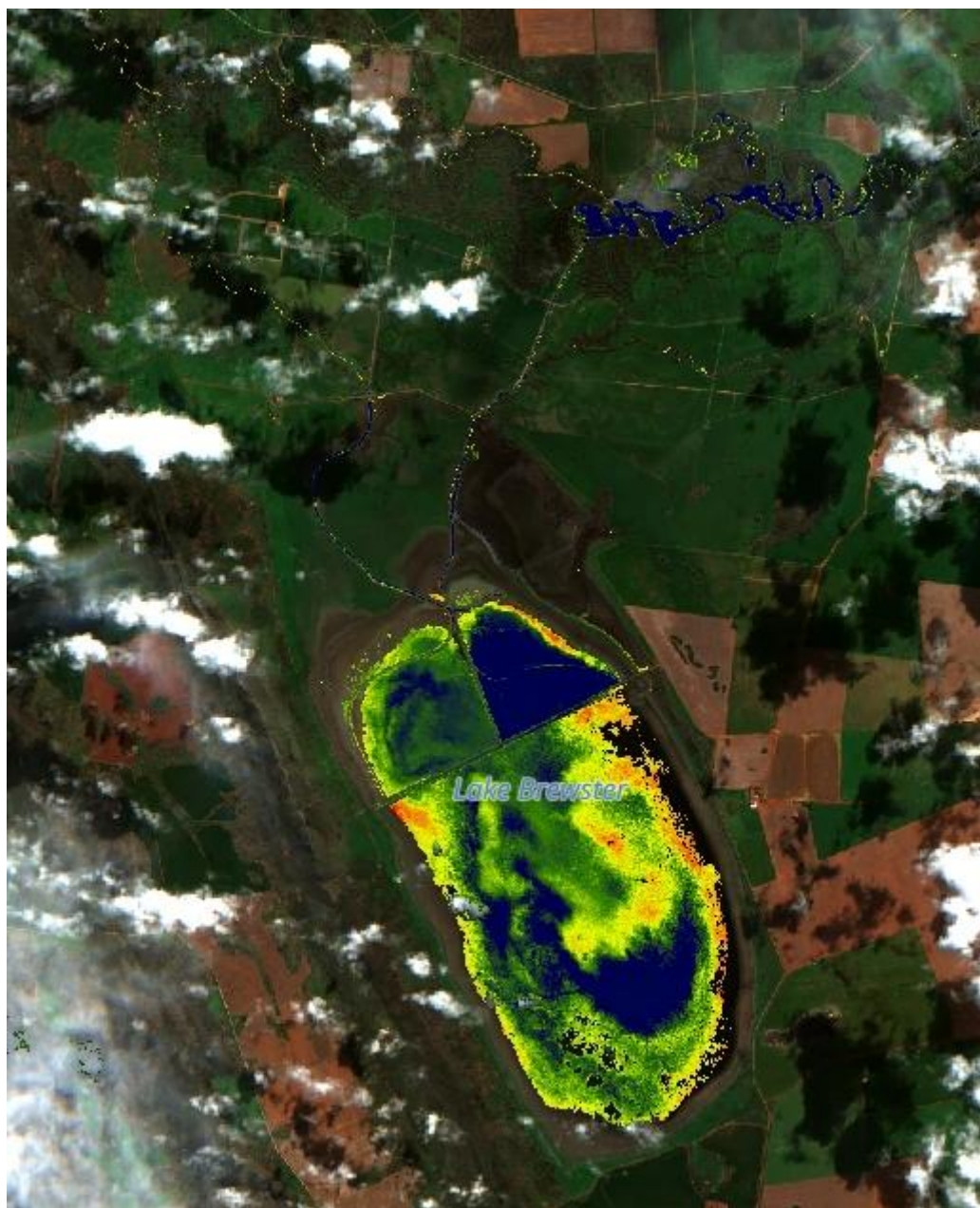


Figure 4. Lake Brewster 12/08/2026 Sentinel Hub [CC BY-NC 4.0] NSW-Custom Algae Script - TF, WaterNSW.

Alert Definitions for Recreational Waters

Alert Definitions as specified in The National Health and Medical Research Council (NHMRC) *Guidelines for Managing Risks in Recreational Water* 2008.

The interim use of these guidelines is endorsed by the Scientific Subcommittee of the NSW Algal Advisory Group.

RED ALERT

These alert levels represent 'bloom' conditions. Water will appear green or discoloured and clumps or scums could be visible. It can also give off a strong musty or organic odour.

Algae may be toxic to humans and animals. Contact with or use of water from red alert areas should be avoided due to the risk of eye and skin irritation. Drinking untreated or boiled water from these supplies can cause stomach upsets. Alternative water supplies should be sought or activated carbon treatment employed to remove toxins. People should not fish when an algal scum is present. Owners should keep dogs away from high alert areas and provide alternative watering points for stock.

AMBER ALERT

Blue-green algae may be multiplying, and the water may have a green tinge and musty or organic taste and odour. The water should be considered as unsuitable for potable use and alternative supplies or prior treatment of raw water for domestic purposes should be considered. The water may also be unsuitable for stock watering. Generally suitable for water sports, however people are advised to exercise caution in these areas, as blue-green algal concentrations can rise to red alert levels quickly under warm, calm weather conditions.

GREEN ALERT

Blue-green algae occur naturally at low numbers. At these concentrations, algae would not normally be visible, however some species may affect taste and odour of water even at low numbers and does not pose any problems for recreational, stock or household use.

Key to Alerts for Recreational Waters

RED Alert ≥10 µg/L total Microcystins OR ≥50 000 cells/mL toxic <i>M. aeruginosa</i> OR biovolume equivalent of ≥4 mm³/L for the combined total of all cyanobacteria where a known toxin producer is dominant in the total biovolume. OR ≥10 mm³/L for total biovolume of all cyanobacterial material where known toxins are not present. OR cyanobacterial scums are consistently present.	• High levels of Blue Green Algae detected. • Indicates “bloom” conditions. • Toxicity should be presumed. • Water will appear green or brownish and may have a strong musty taste and odour. • Surface scums could occur. • Extreme care should be exercised and contact with the water should be avoided. Action • Issue Media Release. • Water supply authorities to increase filtering with activated carbon as appropriate. • Local authority and health authorities to warn the public that the water body is unsuitable for primary contact recreation.
AMBER Alert ≥5000 to <50 000 cells/mL <i>M. aeruginosa</i> OR biovolume equivalent of ≥0.4 to <4 mm³/L for the combined total of all cyanobacteria where a known toxin producer is dominant in the total biovolume OR ≥0.4 to <10 mm³/L for the combined total of all cyanobacteria where known toxin producers are not present.	• Indicates blue-green algae are multiplying. • Water may have a green tinge and musty taste and odour. Action • Water supply authorities to consider filtering with activated carbon. • Investigations into the causes of the elevated levels and increased sampling to enable the risks to recreational users to be more accurately assessed.
GREEN Alert ≥500 to <5000 cells/mL <i>M. aeruginosa</i> OR biovolume equivalent of >0.04 to <0.4 mm³/L for the combined total of all cyanobacteria.	• Low levels of potentially toxic species detected – suggesting base crop of blue green algae may be on the increase. Action • Continue/increase routine sampling to measure cyanobacterial levels.

*The definition of ‘dominant’ is where the known toxin producer comprises 75% or more of the total biovolume of cyanobacteria in a representative sample.

Livestock Drinking Water Guidelines Based on ARMCANZ (2000), Orr and Schneider (2006) and WQRA (2010)

This guideline should be used when water is used for livestock drinking water purposes.

- If visual scums are present, then a **High alert** should be declared. This would be applicable for both farm dams and publicly managed water bodies (streams, rivers, etc). Such advice should also be given to farmers who phone the department seeking information on managing blooms in their dams.
- Where blooms dominated by *Microcystis aeruginosa* are present, then the ANZECC/ARMCANZ (2000) guideline of 11,500 cells/mL should be used. Excess of this cell count will constitute a **High alert**.
- Where blooms dominated by *Dolichospermum circinale* are present, then the Orr and Schneider (2006) guideline of 25,000 cells/mL should be used. Excess of this cell count will constitute a **High alert**.
- **Blooms of blue-green algae other** than *M. aeruginosa* and *D. circinale* are also common in NSW. These can be of either known potentially toxic species, or of species not considered to be toxin producers. When these blooms are present, a total blue-green algal biovolume in excess of 6 mm³/L will constitute a **High alert**. (These are based on Very High alert recommendations for raw water sourced for potable human supply published by WQRA (2010), in lieu of there being nothing else available).

Further Information and Contacts

Water NSW Algal Websites

Algal Information: <http://www.waternsw.com.au/algae>

Water Insights (Lachlan Catchment): <https://waterinsights.waternsw.com.au/>

Algae Alerts NSW Map: <https://www.waternsw.com.au/water-services/water-quality/algae-alerts>

Department of Primary Industries Algal Websites

<https://www.dpi.nsw.gov.au/agriculture/water/quality/pubs-and-info/blue-green-algae>

BOM Websites

7 Day Forecasts: <http://www.bom.gov.au/nsw/forecasts/map7day.shtml>

BOM: <http://www.bom.gov.au/>

Contacts

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