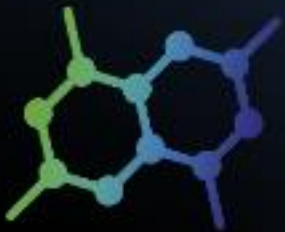
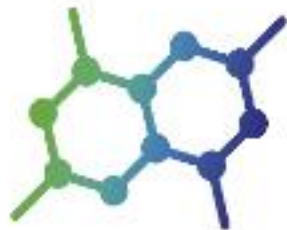


Waterzyme Australia

25 September 2023
Wagga Wagga City Council





Harmful algae blooms disrupt ecosystems and industries like fishing, tourism, and water supply. The toxins harm aquatic life, livestock, and humans.

Lake Albert needs a sustainable solution.



WATERZYME

- ☐ Natural limiting factor for BGA
- ☐ Natural enzymes and rainwater
- ☐ Ecology in a bottle
- ☐ Non-toxic
- ☐ Self-selects for cyanobacteria
- ☐ Treats the bloom and restores ecosystem health





Application is easy

Just pour Waterzyme on affected waterbody or dosing infrastructure.

Waterzyme is fast

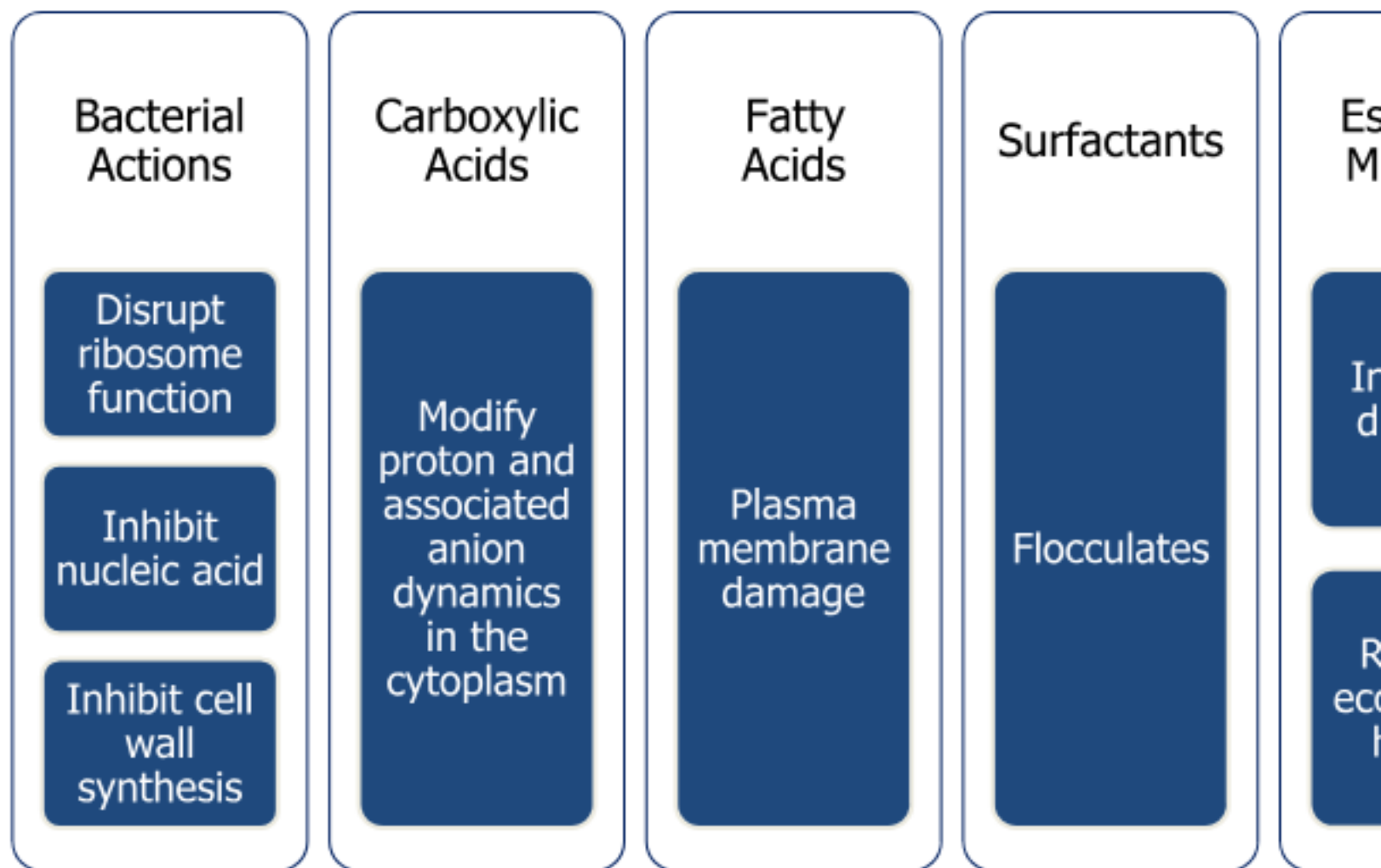
Unlike other solutions, deployed and applied w

Waterzyme is proven

Extensive research and demonstrate its ability green algae and impro

HOW DOES IT WORK?

Waterzyme: multi-modes of action that self-select for blue-green algae and restore di



WHAT'S IN WATERZYME?

Parameters	Background matrix (Rainwater)	Waterzyme (Undiluted)
*pH	7.53±0.05	7.55±0.05
*EC (mS/cm)	0.8±0.01	13.39±0.05
Total Dissolved Solids (mg/L)	148.0	1816.5±61.52
Total Suspended Solids (mg/L)	<1	1273.5±19.09
Total Alkalinity (mg/L CaCO ₃ equivalent)	41.00	980±5.66
Total Phosphorus (mg/L P)	<0.01	17.92±0.06
Phosphate (mg/L P)	<0.005	7.45±0.13
Total Nitrogen (mg/L N)	0.13	44.75±3.52
NOx (mg/L N)	0.03	0.10±0.03
Nitrate (mg/L N)	0.03	<0.05
Nitrite (mg/L N)	<0.005	0.10±0.03
Ammonia (mg/L N)	0.03	2.05±0.01
Total Organic Carbon (mg/L)	2.94	237.5±0.71
Silver (mg/L)	<0.001	<0.001
Aluminium (mg/L)	0.75	23.97±1.80
Arsenic (mg/L)	<0.001	0.02±0.002
Cadmium (mg/L)	<0.001	<0.001
Chromium (mg/L)	0.00	0.03±0.001
Copper (mg/L)	0.10	0.15±0.01
Iron (mg/L)	0.12	20.81±0.96
Manganese (mg/L)	0.00	2.55±0.07
Nickel (mg/L)	0.01	0.04±0.0001
Lead (mg/L)	0.006	0.04±0.0001
Selenium (mg/L)	<0.002	<0.002
Zinc (mg/L)	1.70	0.61±0.005
Mercury (mg/L)	<0.0005	ND
Lithium (mg/L)	<0.001	0.02±0.0005

Enzyme Profile:

- Natural single-stage fermented
- Natural enzymes including glycohydrolases and proteases
- All enzymes commonly found in

Parameters	Background matrix (Rainwater)
Beryllium (mg/L)	
Boron (mg/L)	
Vanadium (mg/L)	
Cobalt (mg/L)	
Strontium (mg/L)	
Molybdenum (mg/L)	
Antimony (mg/L)	
Barium (mg/L)	
Thallium (mg/L)	
Bismuth (mg/L)	
Thorium (mg/L)	
Uranium (mg/L)	
Calcium (mg/L)	
Magnesium (mg/L)	
Potassium (mg/L)	
Sodium (mg/L)	
Sulfur (mg/L)	
Phosphorus (mg/L)	
Bromide (mg/L)	

CASE STUDY 1

Waterzyme partnered with a NSW Council to treat high levels of cyanotoxins in its public waterways

- Four week trial.
- Two wastewater treatment ponds.
- High toxic levels.
 - including high levels of common blue green algae and similarly correlated high biovolumes.

**The trial specifically focused on measuring strains of harmful algal blooms (HABs) that pose the most serious dangers to human health, such as Microcystis and Dolichospermum.*



Waterzyme

1 Litre Waterzyme
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90% overa

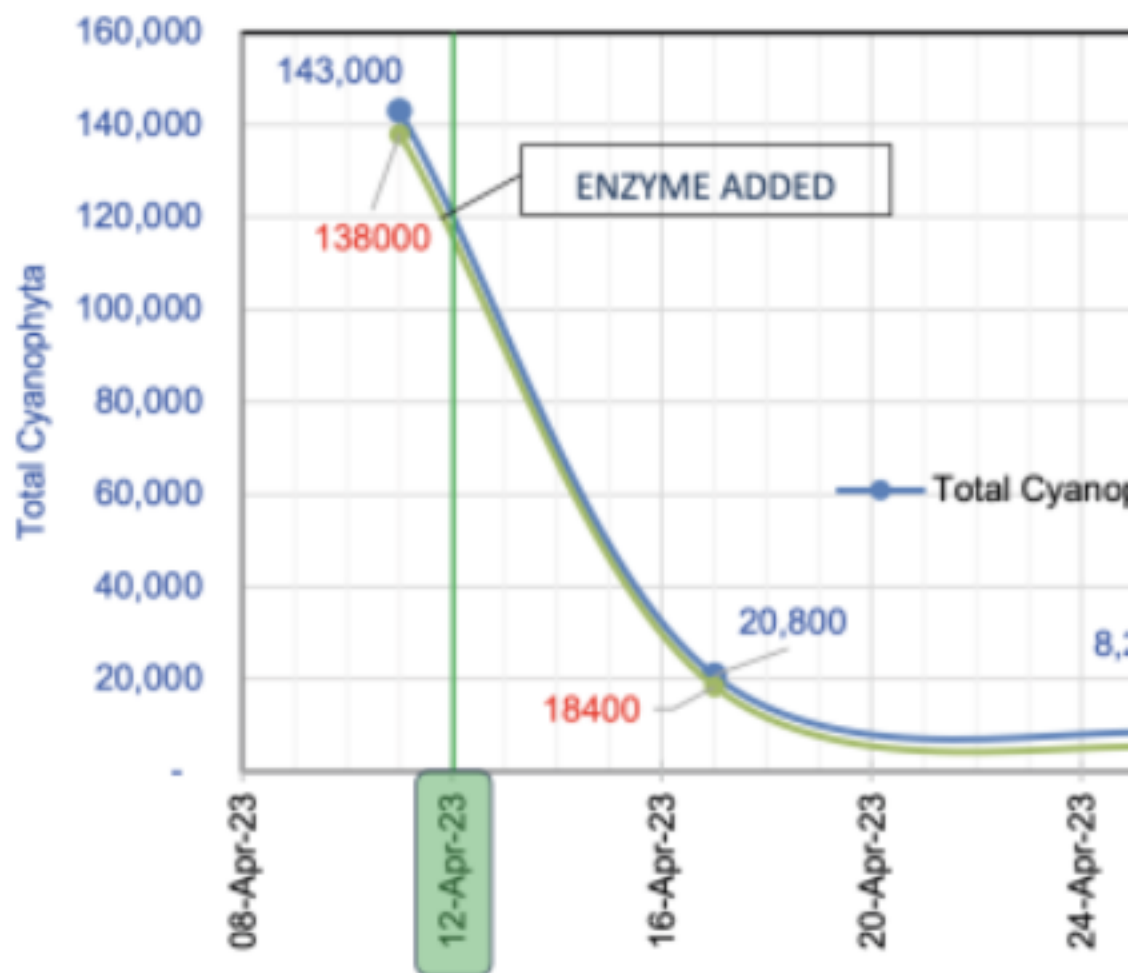
CASE STUDY 2

Waterzyme partnered with the Singleton Council to treat its wastewater treatment plant

- Three week trial.
- High toxic levels.

Total cyanophyta and Microcystis had a **95% and 96% overall removal rate respectively, after application of Waterzyme.*

Analysis of water quality and aquatic species data revealed **Waterzyme only targets the toxic algae species, not affecting the other beneficial organisms.*



THE WATERZYME DIFFERENCE

	WATERZYME	CHEMICAL CONTROL	BIOLOGICAL CONTROL
Australian	✓	✗	✗
Suitable for all water systems	✓	✗	✗
100% natural	✓	✗	✓
Free from harmful toxins	✓	✗	✓
Easy to use	✓	✓	✗
For commercial use	✓	✓	✓
For residential use	✓	✓	✓
Scientifically proven	✓	✓	✓
Doesn't harm aquatic life	✓	✗	✗



Waterzyme for Wagga

Partnership to naturally solve
Lake Albert's ongoing blue-green
algae blooms and restore health

Reduce risk for Council and the
Wagga community

Waterzyme Australia: responsive
and adaptive to your needs



Waterzyme Australia

www.waterzymeaustralia.com.au

