



## Case Study:

**Sue Howlett**  
 SWIM SCHOOL

## PROJECT OVERVIEW

Sue Howlett Swim School is an indoor purpose built swim school consisting of two pools in Loganholme, south of Brisbane. Sue Howlett Swim School averages up to 1200 bathers per week and is one of the preferred swim schools in the area due to the unique instructional technique that Sue has implemented. With her growing customer base, Sue’s traditional sanitation system was no longer suitable and struggled to keep up with demand. As a result, Sue wanted to improve the condition of her water therefore decided to call Ozone1 and invest in a system that she was confident would give her the best water quality possible and ensure the health and wellbeing of her staff and patrons alike.

## OUTCOME

After the Ozone1 installation Sue’s water quality became the best it had ever been and continues to impress her patrons and staff. Sue noticed an immediate improvement in water clarity and as her combined chlorine levels are now maintained and stable at 0.3ppm and below (this is well below the legal safe limit of 1.0ppm combined chlorine) her staff and customers are no longer dealing with chlorine odours and eye/skin complaints.

	Pre Ozone1	Post Ozone1
Free Chlorine	3.0 ppm	1.2 ppm
Total Chlorine	5.0 ppm	1.4 ppm
Combined Chlorine	2.0 ppm	0.2 ppm
pH	7.4	7.2

## METHOD OF SOLUTION

**Primary Disinfection: Ozone1’s Hydroguard 302 Blue I DPD1 & DPD3 smart controller was utilised to ensure consistent levels of Primary Sanitation (Free Chlorine & pH).**

**Secondary Disinfection: Ozone1’s Proprietary System Calculation was utilised for the CO2 along with our unique Advanced Oxidation Process, Ozone + UV (AOP) as a secondary disinfection system, which was designed and built especially to combat Sue Howlett’s combined chlorine and in particular her Monochloramine issues.**

The Hydroguard Blue I controllers use a colorimetric DPD method to determine the Free Chlorine & Total Chlorine measurements as opposed to relying on traditional ORP or Free Chlorine sensors. As a result, the outcome is extremely consistent sanitation (Chlorine & pH) levels. The ‘Blue I’ conducts a DPD1 & DPD3 test every ten minutes, and each and every test can be uploaded via our “Remote Monitoring” to the Cloud and is stored for 2 years, which serves as valuable evidence to satisfy a possible complaint. The remote monitoring also allows access to view their water quality at all times and if set points aren’t met, alerts are sent to the appropriate personnel via text message or email.





Sue Howlett's Large pool pre Ozone1 Install	
Pool Category	Indoor Learn to Swim School
Pool Volume	130,000 Litres
Primary Disinfection	Chemigem Controllers Acid (pH) and Chlorine (ORP)
Secondary Disinfection	None
Temperature	32 degrees Celsius
Bather load	up to 1200 per week

Sue Howlett's Small pool pre Ozone1 Install	
Pool Category	Indoor Learn to Swim School
Pool Volume	24,000 Litres
Primary Disinfection	Chemigem Controllers Acid (pH) and Chlorine (ORP)
Secondary Disinfection	None
Temperature	32 degrees Celsius
Bather load	300 per week

## TESTIMONIAL

I have been in the Swim School industry for 33 years and in my current location for the past 20 years. During this time I have struggled, like most operators, to keep my combined chlorine levels within range given my bather load.

After installing an Ozone 1 system through Brauer Industries this has all changed. The system does what is promised.

My combined chlorine levels are now well under the required levels.

My staff now have a very comfortable environment to work in.

I now have peace of mind knowing that my water is of a very high standard.

Thank you to David Brauer and his team for their very professional service before, during and after installation.

Sue Howlett

Owner Sue Howlett Swim School





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## Case Study:

# Crawchy's Swim School

## PROJECT OVERVIEW

Crawchy's Swim School (CSS) was established in 2012 and is a purpose built indoor learn to swim pool based in Helensburgh, NSW. Within just 18 months of opening, CSS grew rapidly and is now the preferred Swim School within Helensburgh. However, it was found that the traditional methods of water treatment were insufficient with the increase in bather load. Subsequently, CSS contacted Ozone1 to help improve both water quality and bather comfort. Within hours astounding results were achieved with chloramines dropping from 2.5ppm to 0.3ppm!

## OUTCOME

Only hours after commissioning Ozone1's "Total Solution", the water clarity and odour improved dramatically, Primary Disinfection levels stabilised and combined chlorine decreased by 2.2ppm.

	Pre Ozone1	Post Ozone1
Combined Chlorine	2.5 ppm	0.3 ppm
Free Chlorine	3.5 ppm	2.0 ppm
Total Chlorine	6.0 ppm	2.3 ppm
pH	7.4	7.2

## METHOD OF SOLUTION

**Secondary Disinfection:** Ozone1's Proprietary System Calculation was utilised along with our unique Advanced Oxidation Process (AOP) as a secondary disinfection system, which was suitable to combating CSS's combined chlorine and in particular the monochloramines issues.

**Primary Disinfection:** Ozone1's Hydroguard -302 Blue I DPD1 & DPD3 controller was utilised to ensure consistent levels of Primary Sanitation (Free Chlorine & pH).

The Hydroguard Blue I controllers uses a colorimetric DPD method to determine the Free Chlorine & Total Chlorine measurements as opposed to relying on traditional ORP or Free Chlorine sensors. As a result, the outcome is extremely consistent sanitation (Chlorine & pH) levels. The 'Blue I' conducts a DPD1 & DPD3 test every ten minutes, and each and every test is uploaded via our "Remote Monitoring" to the Cloud and is stored for 2 years, which serves as valuable evidence to satisfy a possible complaint. The remote monitoring also allows CSS to access and view their water quality at all times and if set points aren't met, alerts are sent to the appropriate personnel via text message or email.





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Crawchy's Swim School Info Pre Ozone 1	
Pool Category	Indoor Learn to Swim School
Pool Volume	53 (KL)
Primary Disinfection	RolaChem 9 – Automatic Acid (pH) & Chlorine (ORP)
Secondary Disinfection	None
Temperature	32 degrees Celsius
Bather load	650 per week

## CRAWCHY'S EXPERIENCE: TESTIMONIAL

Ever since the doors first opened at Crawchy's Swim School in May 2012 our clientele has steadily increased. From a business owners perspective this is fantastic, however it was becoming increasingly obvious that we were outgrowing the original sanitation system designed for the pool consisting of acid and chlorine.

Figures of 7.0 free chlorine and 2.5 combined were not uncommon. It wasn't surprising to learn that some of our instructors were experiencing skin irritation and loss of body hair.

We contacted a family friend, Stuart Crane of Maytronics about our concerns and he suggested we contact Ozone 1 for a solution.

After speaking with David Brauer from Ozone 1, a site visit was arranged and an upgraded sanitation system was promptly designed consisting of the Blue I controller, Ozone 1 AOP System and Stenner dosing pumps.

Once we agreed it was only a matter of weeks before the Ozone 1 team were onsite commencing work. In fact it took less than 24 hours to install in a very efficient, methodical and courteous manner, to the point where learn to swim lessons were not affected in any way.

We are now getting figures of 0.3 combined and using about 25% of the chlorine we used previously. Our instructors now have body hair growing back and no one has spoken of skin irritations giving us piece of mind knowing we are doing the best we can for our instructors and clients.

The ongoing support from Ozone 1 is fantastic with any minor hiccups being sorted quickly. It is without hesitation that we highly recommend Ozone 1.

David Whiteside

Melinda Whiteside

Owner/Operators Crawchy's Swim School





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Case Study:

# Swim for life

## PROJECT OVERVIEW

Swim For Life (SFL) is an indoor learn to swim centre based on the Gold Coast. The 17m x 6m pool was originally built in 1966 as an outdoor pool that was enclosed & plumbed retrospectively. In April 2004, new owners purchased the centre and struggled through many issues such as poor ventilation, extreme condensation, uncomfortable pool temperature, declining client numbers and maintaining comfortable water for staff and pupils. Staff skin issues were extreme and retention of staff was adversely affected. Following renovations to the venue, conditions improved and bather numbers increased and it became more difficult to maintain healthy water. Various solutions were implemented and proved to be steps in the right direction but never completely solved the ongoing issues. At the end of 2013, SFL contacted Ozone1 and upon installation, a decade of problems disappeared.

## OUTCOME

During the installation the entire pool water was drained due to high TDS (Total Dissolved Solids) and fresh water was added. Four months post installation enduring heavy bather loads, the water quality is maintaining fantastic results, the clarity and odour has improved dramatically and Combined Chlorine has stabilized to 0.3ppm and below.

	Pre Ozone1	Post Ozone1
Free Chlorine	2.5 ppm	1 ppm
Total Chlorine	6.0 ppm	1.3 ppm
Combined Chlorine	3.5 ppm	0.3 ppm
pH	7.6	7

## METHOD OF SOLUTION

**Secondary Disinfection: Ozone1's Proprietary System Calculation was utilised along with our unique Advanced Oxidation Process (AOP) as a secondary disinfection system, which was suitable to combating SFL's combined chloramines and in particular, the monochlorinamines issues.**

**Primary Disinfection: Ozone1's Hydroguard -302 Blue I DPD1 & DPD3 controller was utilised to ensure consistent levels of Primary Sanitation (Free Chlorine & pH).**

The Hydroguard Blue I controllers uses a colorimetric DPD method to determine the Free Chlorine & Total Chlorine measurements as opposed to relying on traditional ORP or Free Chlorine sensors. As a result, the outcome is extremely consistent sanitation (Chlorine & pH) levels. The 'Blue I' conducts a DPD1 & DPD3 test every ten minutes, and each and every test is uploaded via our "Remote Monitoring" to the Cloud and is stored for 2 years, which serves as valuable evidence to satisfy a possible complaint. The remote monitoring also allows SFL to access and view their water quality at all times and if set points aren't met, alerts are sent to the appropriate personnel via text message or email.





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	Swim for life Info Pre Ozone 1
Pool Category	Indoor Learn to Swim School
Pool Volume	130 (KL)
Primary Disinfection	2 x 40amp Salt Chlorinators
Secondary Disinfection	None
Temperature	32 degrees Celsius
Bather load	850 per week

## SWIM FOR LIFE: TESTIMONIAL

I have learnt that there are many pool supply operators who are happy to sell you more chemicals to rectify your problems, who do not really understand the demands of a 'learn to swim' school.

With increased numbers and extra bather load it became more difficult to maintain healthy water. As a result of the hours spent in the water, staff skin issues were extreme and a constant thorn in my side and retention of staff was adversely affected. At the end of 2013 it was decided that we would go with Ozone 1 Pty Ltd and install a Blue-I controller with remote monitoring, with Ozone1's Advanced Oxidation Process as a secondary disinfection system. Ever since the installation of the new system we have had no skin issues with staff and our water has been immaculate. The clarity has never faltered and it feels comfortably to teach in. The automated dosing and remote monitoring which gives us records of tests taken every ten minutes going back two years is reassuring if we are ever challenged by authorities or clients over our water quality. Gone are the smell of chloramines and the smell of chlorine on staff's skin and in the pool area. Chemical costs and chemical handling issues have been reduced and the reassurance of knowing that the water is consistently good is priceless.

Many small learn to swim operators have no doubt gone through or are going through similar issues to what we have encountered over the years. I can thoroughly recommend the team at Ozone 1 Pty Ltd. Many years of stress and anxiety would have been avoided had we been able to install the system earlier.

My thanks to the Team at Ozone 1 for their professionalism and support in helping us achieve pristine water and peace of mind.

Gary Brinkman  
 Swim For Life Australia

