COMMERCIAL AQUATICS AUSTRALIA Aquatic Solutions Nationwide

Specialising in the design, construction, renovation and service & maintenance of commercial pools for aquatic centres, hotel and resort developments, schools, aquatic play attractions, remote communities and minesites.

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AQUATIC CENTRES HOTELS & RESORTS HYDROTHERAPY POOLS RETIREMENT COMMUNITIES REMOTE COMMUNITIES SCHOOLS COMPETITION POOLS WATER PLAY PARKS WATERSLIDES



CAPABILITIES



Capability Statement



- DESIGN & ENGINEERING
 - CONSTRUCTION
 - •MYRTHA TECHNOLOGY
- FILTRATION & WATER TREATMENT
 - SERVICE & MAINTENANCE
- SPLASH PARKS & WATER PLAY PARKS

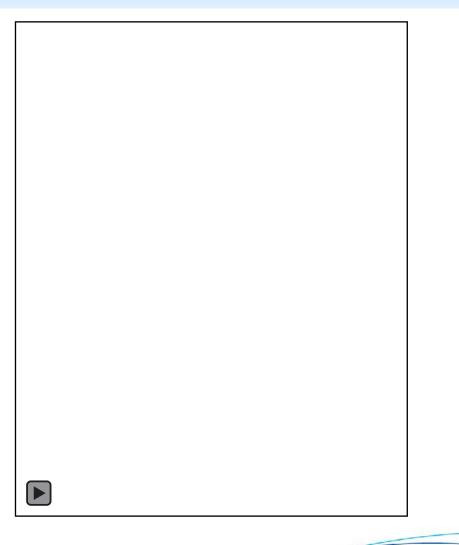


WATER PLAY & SPLASH PARKS



WATER PLAY & SPLASH PARKS





WHAT'S THE ATTRACTION?



- Minimal Capital Cost
- Minimal Build Time
- Limited Supervision
- Highly Interactive
- Accesses All Abilities
- Low Maintenance Costs

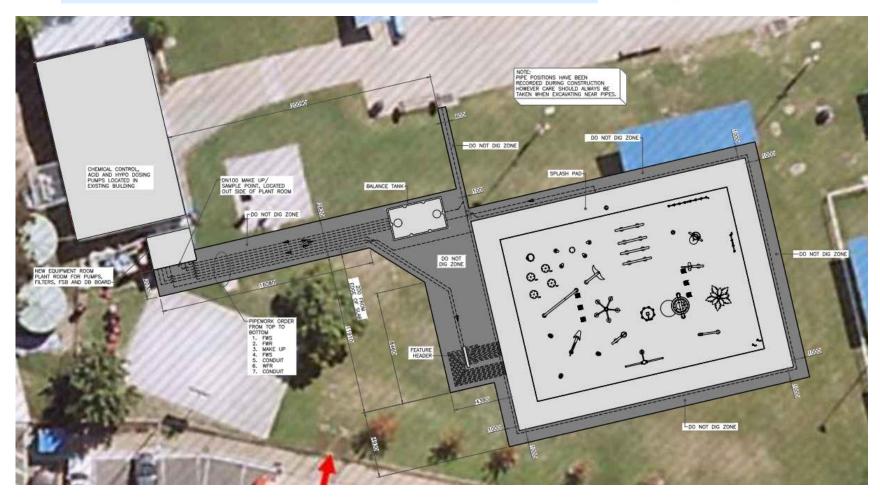
KEY ASPECTS OF WATER PLAY



- System Hydraulics
- Water Filtration
- Chemistry Management
- Staff Training & Operating
- System Operating & Testing

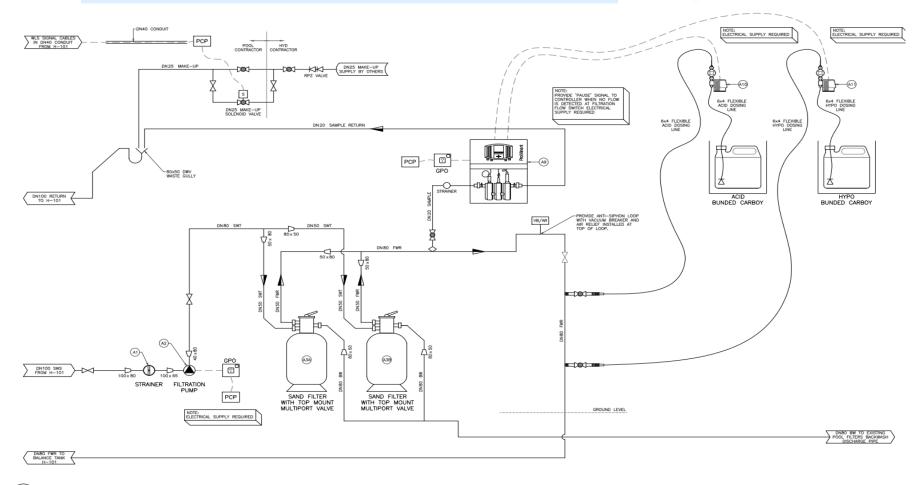


SYSTEM HYDRAULICS





WATER FILTRATION

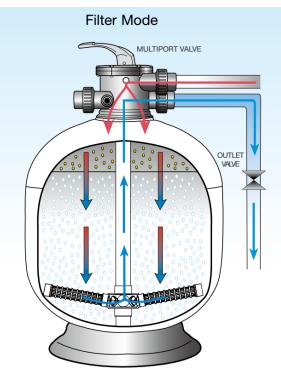


1 PAID SPLASH PLAY FILTRATION AND PUMPING



WATER FILTRATION





System turnover in Victoria is not specified for Splash Parks. CAA have adopted the WA standard of 30 mins





Free Chlorine Vs ORP

- ORP Can be difficult to understand and convert to a free chlorine reading. It is a representation of the Chlorine level. It also requires a higher level of water balance
- Free Chlorine is a direct result which is referenced in Vic Health Regulations. Overall much simpler for Operators





What Chemicals Do We Use?

Liquid Chlorine

- Cost effective
- Effective for oxidization
- No bulk storage needed
- Readily available
- High level of training required

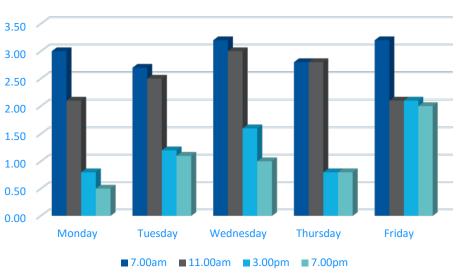
Liquid Hydrochloric Acid

- Cost Effective
- Effective in lowering pH
- No bulk storage need
- High level of training required



Cyanuric Acid (Chlorine Sunscreen)

- UV Exposure will breakdown chlorine in water
- Systems which hold a body of water will require Cyanuric Acid to be used
- Some chemical management systems do not tolerate the use of Cyanuric Acid
- Not using Cyanuric Acid will cause high levels of fluctuation in available Free Chlorine

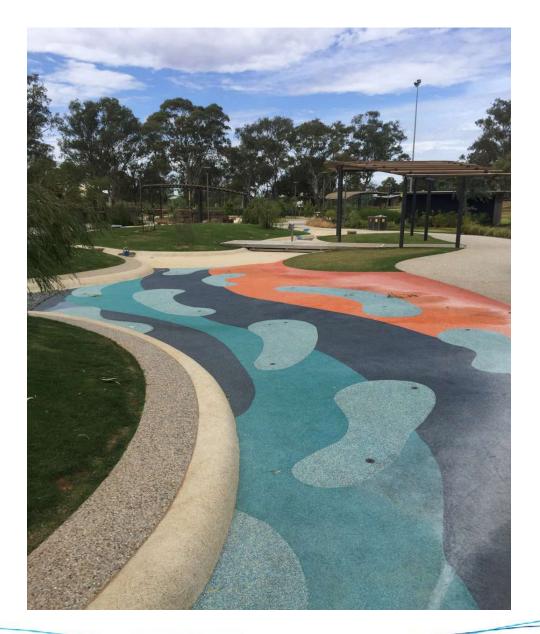


Free Chlorine Levels



What has the greatest impact on water chemistry?

- Debris, Waste & Grass
- Park Usage (Bather load)
- Poor Maintenance
- Poor Supervision & Operational Maintenance
- Poor Design
- Poor Construction





What Could Impact Water Chemistry At This Site?

STAFF OPERATIONS & TRAINING



RACV ANNUAL SITE TRAINING SCHEDULE – CITY CLUB



TRAINING REGISTER

This section should be used to record the training of each personnel

Trainee Name

Trainer Name

Item	Date	Result Pass / Fail / NA			
Return to Pools					
Balance Tanks					
Pump Operations					
Filters					
Heating					
Chemical Systems					
Dosing Pumps					
Injectors					
Chemical Controllers					
Jet Pumps					
Water Testing Equipment					
Chemical Charts					
Electrical Switchboard					
UV Units					
Backwash Pump Set					
Pool Cleaning					
Defect Liability Sheet					
Required Maintenance					
Simple Repairs					

SYSTEM OPERATING & TESTING



RA	C	V

RACV Cape Schanck Resort Daily Pool Test Results



Date:			-	Operator:				-							
7:30 AM	Free Cl	Total Cl	<u>Manu</u> ClCmb	<mark>al Tests</mark> pH	ΤΑ	Calcium	pН	Cl	Auto Readings						
25m/Spa															
11:00 AM	Free Cl	Total Cl	<u>Manu</u> CICmb	<mark>al Tests</mark> pH	ΤΑ	Calcium	pН	Cl	Auto Readings			Free Cl	Health Regu <u>All Pools</u> 1 - 10ppm	lations <u>Spa</u> 3 - 10ppm	
25m/Spa												Total Cl	1 - 10ppm	3 - 10ppm	
3:00 PM	Free Cl	Total Cl	<u>Manu</u> ClCmb	<mark>al Tests</mark> pH	ΤΑ	Calcium	pН	Cl	Auto Readings	adings		ClCmb pH TA Calcium	< 1ppm 7.2 - 7.8 Min 80 ppm Mis 80ppm		
25m/Spa												TDS	Be	low 1000	
6:30 PM	Free Cl	Total Cl	<u>Manu</u> ClCmb	al Tests pH	ΤΑ	Calcium	pН	Cl	Auto Readings			BA	RACV Recommended Readings		
25m/Spa													All Pools	Spa	
Pool	Time			Reason	<u>Chemi</u>	cal Additions	Chemical Added	Amount	Pool Closed	Retest Done?	Closure Duration	Free Cl Total Cl ClCmb	2.0 - 2.5ppm < 10ppm	3.5 - 4.0ppm < 10 ppm < 1ppm	
												pH TA Calcium TDS	1	45 - 7.55 20 ppm - 130 ppm	
								1	1						



QUESTIONS?

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