

Set out in accordance with Auckland Council Template:

On the Water Event Hazard Management Plan:

The sport of yacht racing is controlled by the Yachting New Zealand Safety Regulations and Prescriptions, the International Yachting Federation Racing Rules of Sailing, International Collision Rules, Maritime NZ Safety Rules, Harbour By-laws, and the rules of the event – the Sailing Instructions – as set out by the Organising Authority.

All sailors wear Buoyancy Aids while on the water in accordance with YNZ Safety Rules.

All boat crews wear or carry Buoyancy Aids in accordance with Maritime Safety Rules.

The responsibility for a boat's decision to race or continue racing is hers alone – RRS 4.

Environmental effects to consider						
Risks What could go wrong	Hazards What could cause it to go wrong	Risk Control What is in place to prevent it going wrong	Severity 1 – No Harm 2 Some Harm 3 Mod Harm 4 Sign. Harm 5 Extens. Harm	Likelihood 1- Unlikely 2- Possible 3- Even Chance 4- Likely 5- Almost certain	Who is Responsible	Treatment / Alleviation.
Weather	Sudden Climate change	Ongoing monitoring Consider Postponement	3	3	Event Organiser Race Officer Safety Officer	Postpone or abandon.
Temperature	Weather change to hot or cold	Wear or carry appropriate gear.	2	2	Sailors & Crews	Be prepared for changes
Sea Conditions In Course area	Weather & tide changes	Monitor boat handling skills	2	3	Race Officer Sailors & Crews	Be prepared to assist lesser experienced
Sea Conditions At launching area	Strong on-shore winds	Prior Briefing In the water assistance to launch & Retrieve	4	4	Race Officer Sailors & Crews	
Poor Visibility	Fog, Rain, Darkness	Monitor fleets, Advise Race Officer	3	1	Race officer Sailors & Crews	Postpone or abandon.
Navigational - Water hazards	Collision - grounding	Check charts & beacons	4	1	Skipper & Crew	Training, Information
Harbour Traffic	Collisions-damage	Know the Collision Rules	4	1	Skipper & Crew	Training, Information Display approp. Flags
Floods	Drift wood, Flotsam Strong currents		3	2	Race Officer Event Organiser	Briefing Postpone or abandon

On the Water Risks

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Collision between boats while Racing	Crews not keeping a lookout	Warn sailors at briefing	3	2	Yacht helmsman	Rescue boat to check for damage & injury
Collision between yacht & patrol boat	Working in high traffic area	Warn sailors to keep clear of mark layers, Patrol boat to fly "D" flag	4	2	Yacht Helmsman Patrol Boat driver Safety Officer	Second patrol boat to assist
Capsize	Wind gust, sail handling error.	Rescue boat crew to stand by & assist if necessary	1	3	Sailors Rescue boat crew	Rescue boat to check for damage & injury – assist if asked.
Gear Breakages	Wear, lack of preparation & maintenance	Prior preparation	1	2	Sailors & crews	Patrol boats to assist with tools or tow if asked
Shipping Lanes Harbour Traffic	Failure by yachts & patrol boats to observe Marine Law	Advise at Briefing, Patrol boats to monitor fleets near shipping lanes	4	1	Race Officer Safety Officer Sailors Patrol boat crews	Education Monitoring of fleets by patrol boats.
Insufficient Fuel	Lack of mobility. Cease to be able to perform duties	Check fuel supplies before leaving beach – carry spare	3	2	Race Officer Boat Skipper	Check & Carry spare
Man Overboard	Capsize Overbalance	Rescue boat on standby	3	3	Sailors Rescue Boat Crew	Rescue boat to assist if requested
Boat Grounding	Lack of information	Set Course to avoid risk area. Briefing	3	2	Race Officer Skipper	Patrol Boat, Coastguard to assist
Communications	VHF links can fail Radios can fail Aerials inefficient	Pre-testing of equipment. Availability of Alternate Channels	4	2	Organising Authority Boat Skippers	Maintenance Spare Radios Use of Mobile Phones
Ability of Crews	Unsuccessful Rescues, Damage to boats & gear	Crew training in <u>all</u> conditions.	3	2	Organising Authority	Check for proof of experience. Training.
Unsafe Boats	Increased risks to crew & other boats	Servicing, Boat Checks, Maintenance	3	1	Organising Authority Boat owner/ skipper	Boat checks of all vessels prior to the event
Propellers	Inattention, Capsize	Wear Kill switch	4	1	Skipper, Crew	Training, Maintenance

Mechanical Breakdowns	Loss of Rescue Efficiency	Maintenance & Servicing	3	1	Organising Authority Equipment Officer	Check maintenance Records
Accident & Health Emergencies						
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Cuts & Abrasions	Shore hazards, Boat fittings,	Protective Clothing Maintenance Stowage & Protection	3	3	Sailors Safety Officer Boat skippers	First Aid On the Water Ashore if serious
Strains	Weights & anchors Loading boats & gear	Caution- Seek assistance to handle equipment	3	2	Equipment Officer Patrol boat crews Owners & Skippers	First Aid Medical attention
Bruising, Crushing	Incorrect or inefficient Stowing	Check security & efficiency of stowing	4	2	Equipment Officer Patrol boat crews Owners & Skippers	First Aid Medical attention
Head wound Bruising or Laceration	Booms- Collisions	Education & Awareness Patrol boat assistance if requested	4	2	Sailor	First Aid Medical attention if any concerns
Hypothermia	Temperature change	Adequate clothing Patrol boat support	3	2	Sailor	First Aid Medical attention if serious
Hyperthermia (Overheating)	Waiting for start in fine, calm conditions	Patrol Boat awareness Ample fluids	3	2	Sailor, Rescue boat	First Aid Medical attention
Sea Sickness	Rough Waters	Medication Ample fluids	3	2	Sailor / Crew	Return to Shore Ensure ample fluids
Sunburn	Sun, High Cloud, Water reflection	Sunscreen & protective clothing	3	1	Sailor, Coach	First Aid Medical attention

Miscellaneous - Site specific Hazards, Communication Plan – Internal/External

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Slippery Ramps	Falls	Regular Cleaning	3	2	Council maintenance	Check prior to the event
Trailers & Beach Trolleys	Falls,	Efficient stowing – Wardens, Public Notices	3	1	Organising Authority	Ensure tidy stowing
Water Ski Lanes	Hazard to Swimmers	Notices & Briefing	3	1	Other marine users	Notices - Heed rules.
Injury to swimmers	Hit by boat	Briefings	3	1	Sailors, Skippers, Crews	Beware - Notices
Power Cables Overhead	Contact with Mast	Notices, Briefings	5	1	Organising Authority –	Notices & Briefings
Cables - Submerged	Fouled with anchor	Notices, Briefings	4	1	Organising Authority –	Notices & Briefings
Marine Pollution	Gear damage, Health Hazard	Public Notices	4	1	Local Authority – Warning if necessary	Race Officer – Cancel if advised
Jelly Fish	Health Hazard	Public Notices Patrol Boat Observations	3	1	Organising Authority	Race Officer – Cancel if advised
Toxic warnings	Health Hazard	Public Notices	4	1	Local Authority – Warning if necessary	Race Officer – Cancel if advised
Tsunami Warning	Human danger	Public Notices	4	1	Police – Organising Authority	Organising Authority Heed all warnings
Radio Interference	Loss of Communication	Regular Radio Checks Optional Channels	4	2	Organising Authority	