

Event		HIR 2023 Beach Sprints							Date		30-Aug-23	
Author		C Harding			Reviewed		S English, A Richards			Rev	v1	
No:	Hazard	Who may be harmed	Hazardous Event	Harm	Severity (1-5)	Uncontrolled Probability (A-E)	Controls to Reduce probability of a Hazardous Event		Controlled Probability (A-E)	Controls to reduce probability of Harm being fully realised		Controlled Level of Risk (L/M/S/I)
							Barriers	Action to maintain barriers		Controls	Action to maintain controls	
Water												
1	Water	Competitors, Boat Handlers, Event personnel	Competitors / Event personnel entering the water, unable to self rescue	drowning, hypothermia	5	B	Rowing conditions to be continually assessed during lead up and period of racing. Racing to be suspended if conditions deemed unsafe to race. Crews competence to be assessed during racing and crews showing incompetence in handling the prevailing conditions instructed to return to shore. Team Managers required to undertake risk assessment of crews prior to going afloat and prevent crews with insufficient competence going afloat.	Health and Safety Officer and Match Director will monitor conditions. Feedback from on water safety personnel and race umpires will be sought and taken into account	A	Support from Safety boats / Life Guards in a timely manner, reducing time spent in the water. Lifejackets for all crew must be onboard and easily accessible. Where event Safety boat crews are unable to effectively respond to an incident support will be sought from professional emergency services (RNLI or SAR aircraft via Coastguard)	Health and Safety Officer to ensure that there are sufficient safety resources afloat and ensure sufficient beach lifeguards are on station. Health and Safety Officer to order suspension of racing if safety resources become committed to rescue and are no longer available to support others. This will depend on the nature of the incident, number of safety boats engaged, performance of other racing crews and weather. Health and Safety Officer to inform Coast Guard of Event schedule, commencement and closure of racing on a daily basis.	Moderate
2	Surf zone - breaking waves (Beach start)	Competitors, Boat Handlers	Competitors struck by equipment / sea bed during capsizing by breaking waves in shallow water Competitors entering the water, unable to self rescue (see entry 1)	Personal injury, Head injury (concussion)	3	D	Courses set perpendicular to breaking wave pattern to minimise side on situations. Two boat handlers used to support launching during the beach start. Additional boat handlers will be allowed (subject to OC discretion) to support crews if required. Team Managers have responsibility to select competent boat handlers who have had opportunity to practice Racing to be suspended if conditions deemed unsafe to race.	Health and Safety Officer and Match Director will monitor conditions.	C	Support from beach life guards in a timely manner, reducing time spent in the water. Where water depth is sufficient and wave pattern allows safety boats to assist.	Health and Safety Officer to ensure sufficient beach lifeguards are on station. Health and Safety Officer to order suspension of racing if safety resources become committed to rescue and are no longer available to support others. This will depend on the nature of the incident, number of life guards engaged, performance of other racing crews and weather.	Moderate
3	Surf zone - breaking waves (Beach finish)	Competitors, Boat Handlers	Competitors struck by equipment / sea bed during capsizing by breaking waves in shallow water Competitors entering the water, unable to self rescue (see entry 1)	Personal injury, Head injury (concussion)	3	D	Courses set perpendicular to breaking wave pattern to minimise side on situations. Two boat handlers to be used to support recovery of boats (no limit on number after competitor has disembarked). Team Managers have responsibility to select competent boat handlers who have had opportunity to practice and are aware not to put themselves in the path of the returning boat. Racing to be suspended if conditions deemed unsafe to race.	Health and Safety Officer and Match Director will monitor conditions.	C	Support from beach life guards in a timely manner, reducing time spent in the water. Where water depth is sufficient and wave pattern allows safety boats to assist.	Health and Safety Officer to ensure sufficient beach lifeguards are on station. Health and Safety Officer to order suspension of racing if safety resources become committed to rescue and are no longer available to support others. This will depend on the nature of the incident, number of life guards engaged, performance of other racing crews and weather.	Moderate
4	Unable to make way - wind or tidal push	Competitors	Crews unable to return to safe landing area.	Exposure, hypothermia	4	C	Rowing conditions to be continually assessed during lead up and period of racing. Racing to be suspended if conditions deemed unsafe to race. Team Managers required within the rules to undertake risk assessment of crews prior to going afloat. Crews competence to be assessed during racing and crews showing incompetence in handling the prevailing conditions instructed to return to shore.	Health and Safety Officer and Match Director will monitor conditions. Feedback from on water safety personnel and race umpires will be sought and taken into account	A	Safety boats capable of towing rowing boats to shore if conditions allow or a safe on water location where rowing craft can be released to make a controlled approach to shore or be stored (anchored off) and their crews ferried ashore. Team Managers to make Boat handlers available to assist recovery of crew and craft, as directed by Safety team (life guards / safety boat crew / shore based event safety team).	Health and Safety Officer to ensure that there are sufficient safety resources afloat If practicable, dependant on wind and wave patterns, Health and Safety Officer to designate a safe landing area where approach to beach is easiest in prevailing conditions. This information is to be passed to Safety boat crews for use if a direct recovery to the beach within the racing area is felt to be hazardous by the safety boat crews.	Low
5	MOB	Competitors	Competitor in crew boat overboard - self rescue / crew rescue Solo competitor overboard - self rescue Competitor entering the water - unable to self rescue (see entry 1)	Exposure, hypothermia, personal injury	4	B	Crews to have practiced MOB and capsizing procedures as per world rowing guidelines. Team Managers required within the rules to undertake risk assessment of crews prior to going afloat. Rowing conditions, especially in surf zone where risk of a person being ejected from boat is highest, to be continually assessed during lead up and period of racing. Racing to be suspended if conditions deemed unsafe to race. Crews competence to be assessed during racing and crews showing incompetence in handling the prevailing conditions instructed to return to shore.	Health and Safety Officer and Match Director will monitor conditions. Feedback from on water safety personnel and race umpires will be sought and taken into account	A	If unable to self rescue, support from Safety boats / lifeguards in a timely manner, reducing time spent in the water. Lifejackets for all crew must be onboard and easily accessible.	Health and Safety Officer to ensure that there are sufficient safety resources afloat and ensure sufficient beach lifeguards are on station. Health and Safety Officer to order suspension of racing if safety resources become committed to rescue and are no longer available to support others. This will depend on the nature of the incident, number of safety boats engaged, performance of other racing crews and weather.	Low

6	Capsizing	Competitors	Capsize, possible separation from boat Competitor entering the water - unable to self rescue (see entry 1)	Exposure, hypothermia, personal injury	4	C	Crews to have practiced MOB and capsize procedures as per world rowing guidelines. Team Managers required within the rules to undertake risk assessment of crews prior to going afloat. Rowing conditions, especially in surf zone where risk of capsize is highest, to be continually assessed during lead up and period of racing. Racing to be suspended if conditions deemed unsafe to race. Crews competence to be assessed during racing and crews showing incompetence in handling the prevailing conditions instructed to return to shore.	Health and Safety Officer and Match Director will monitor conditions. Feedback from on water safety personnel and race umpires will be sought and taken into account	B	If unable to self rescue, support from Safety boats in a timely manner, reducing time spent in the water. Lifejackets for all crew to be onboard and easily accessible. To be checked by event control prior to going afloat	Health and Safety Officer to ensure that there are sufficient safety resources afloat and ensure sufficient beach lifeguards are on station. Health and Safety Officer to order suspension of racing if safety resources become committed to rescue and are no longer available to support others. This will depend on the nature of the incident, number of safety boats engaged, performance of other racing crews and weather.	Moderate
Medical Issue												
7	Response to injury during racing (racing competitors or event personnel)	Competitors, Boat Handlers, Event personnel	Injury by any means to competitor or event personnel sustained during racing activities	cuts, broken bones, concussions (head injury), muscle strains, fatigue related unconsciousness. Also see water section re Drowning and weather section for exposure related incidents.	4	C	Event control to inspect equipment for obvious defects that could lead to injury (sharp edges associated with damage etc), unsuitable equipment will not be allowed to be used. Crews to avoid contact with other crews whilst racing, as per rules of racing. Team Managers to ensure their crews are "Fit to race" before going afloat.	Event control briefed on how to inspect boats and other equipment. Team Managers briefing to highlight rules of racing and over riding principal of avoid collisions. Team managers to ensure their crews are aware and "fit to Race".	B	Support from Safety boats / beach life guards in a timely manner. Priority will be given to only the essential first aid (as appropriate to injury) required to make casualty safe to return to shore. Shore based first aiders will be deployed to meet casualty. Once ashore casualty will be discharged into their care. Health and Safety Officer will take advice from first aiders on the need to engage the Emergency Services.	Health and Safety Officer to ensure that there are sufficient safety resources afloat and ensure sufficient beach lifeguards are on station. Health and Safety Officer to order suspension of racing if safety resources become committed to rescue and are no longer available to support others. This will depend on the nature of the incident, number of safety boats engaged, performance of other racing crews and weather. Where possible safety boat teams will be assigned to spread any first aid capabilities through out the fleet. All safety boats to carry radios capable of raising Health and Safety Officer, to enable communication with shore based first aiders. First aid team to remain in contact with Health and Safety Officer to ensure they have sufficient capacity to respond to a racing incident.	Moderate
8	Pre existing Medical Condition	Competitors, Event personnel, Spectator	Problem occurs that requires medical attention, e.g. athlete collapses on beach with asthma.	Ill or injured person	4	B	Affected person may take prophylactic medicine, participants are advised not to take part if they have a medical condition or pre-existing injury that may manifest itself during the event and require medical support. Competitors and event safety staff asked to declare existing medical conditions.	Instructions to Team Managers and officials	A	Summon medical help by radio or phone. First aiders on site. For water based incidents timely support from safety boat / lifeguards in order to get casualty to first aid response.	Include response in Emergency plan and information for participants, especially location and procedure for getting first aid support. First aid team to be in contact with Match Director and Health and Safety Officer to ensure they continue to have sufficient capacity to respond to a racing incident. Racing suspended if first aid team fully committed.	Low
9	Medical requirements beyond first aid capability	Competitors, Event personnel, Spectator	Emergency services required	Delay to off-site medical treatment	4	A	Designated route for emergency service access briefed to event staff. Event staff to ensure clear access route to race area is maintained	Include in Safety Plan	A	First aid and medical services available on site	First aiders able to carry out casualty transfer to hospital if required. First aid team to be in contact with Match Director and Health and Safety Officer to ensure they continue to have sufficient capacity to respond to a racing incident. Racing suspended if first aid team fully committed.	Low
Weather												
10	High winds	Competitors, Event personnel	may lead to poor rowing conditions and events described in water section. High winds will increase swell and surf conditions. Easterly-southerly winds in lead up to the event will bring largest swell conditions, with offshore winds on race days increasing the risk in the surf zone of larger, breaking waves.	As per water section	n/a	n/a	see water section	see water section	n/a	see water section	see water section	Moderate

11	Poor visibility	Competitors, Event personnel	Crews unable to find turning points or unable to see land and thereby unable to navigate. Unable to safely return to land.	Crews lost at sea, risk of collision, Exposure due to increased time on water in race attire.	3	B	Do not start an activity unless visibility is greater than 400m. Consider suspending activity if visibility falls to <400m taking into account forecast, rate of loss of visible distance and fluctuations seen in preceding time period. As a minimum, ensure visibility is such that beach can be seen from all points on the race course. Where this is not achievable racing must be suspended until visibility improves.	Health and Safety Officer and Match Director will monitor conditions and take action as appropriate.	A	Support from Safety boats with navigation equipment (GPS and/or compass and chart etc.) notify Coastguard (VHF ch16) and request SAR (search and rescue) assistance	Health and Safety Officer to ensure that navigation equipment is carried on safety boats Health and Safety Officer to have means of contacting the coastguard.	Low
12	Prolonged bright sunshine	Competitors, Event personnel	Sun-burn	Discomfort and potential for skin damage	2	C	participants advised to keep covered up during high risk periods or use sun screen. Safety boat crews and other Event personnel to have access to sun screen during the event and advised to use it or keep covered up during high risk periods. On water event personnel may be particularly vulnerable given the length of time they are potentially exposed whilst supporting the event - a shift pattern to be used to reduce this exposure.	Include protection against the sun in the advice to participants and officials	C	Treat with after sun cream	Health and Safety Officer to ensure that first aiders are equipped with after sun cream.	Low
13	Prolonged high temperatures	Competitors, Event personnel	Dehydration, Hyperthermia, heat stroke and heat exhaustion	illness	3	B	Event timing (September) lowers risk of prolonged high temperatures. participants and officials reminded to keep themselves hydrated and out of the sun during higher risk periods. appropriate clothing to be used	Include protection against high temperatures in the advice to participants and officials	A	Provide a shaded, well ventilated rest area and drinking water. Seek advice from event First aid team. If deemed required evacuate to hospital.	Health and Safety Officer to ensure that plenty of drinking water is available, and competitors and event personnel have knowledge of how to access this. For on water event personnel, Match Director to ensure rest breaks are available in shift pattern and that hydration available on safety craft	Low
14	Darkness	Competitors, Event personnel	Crews lost at sea in the darkness	Crews lost at sea leading to risk of collision, etc.	3	B	Monitor and change program to fit day light hours. Move races to following day if unable to complete them in daylight. Event craft to maintain VHF contact and check in when going afloat and returning ashore.	Race officials are aware of sunset time and ensure that all rowing boats are ashore at least half an hour before sunset. Ensure sufficient time allocated to allow recovery of safety craft before sunset, once rowing crews are off the water. Where safety craft are being left afloat consider how crews are returning to shore (kayaks etc) and allocate time as necessary to achieve this before sunset.	B	Support from Safety boats with navigation equipment (GPS and/or compass and chart etc.) notify Coastguard (VHF ch16) and request SAR (search and rescue) assistance if required	Health and Safety Officer to ensure that navigation equipment is carried on safety boats Health and Safety Officer to have means of contacting the coastguard.	Low
15	Hypothermia (Severe cold & wet)	Competitors, Event personnel	participants and officials being cold during the event (without immersion)	Hypothermia	3	B	advise participants and officials to bring appropriate clothing and carry additional clothing to support their activities in an accessible dry bag (e.g. on beach, on event craft etc).	Include protection against low temperatures in the advice to participants and officials	B	Treat with first aid, provide a warm place to recover (e.g. Sailing Club) wear appropriate clothing, or take additional clothing in a drybag. Safety launches available to take severely affected individuals to designated First Aid point.	Health and safety Officer to ensure all Launches carry safety kits, including thermal blanket.	Low
16	very severe weather events	Competitors, Event personnel	Injury and damage caused by storm conditions	Injury to participants, spectators and staff	4	A	Weather to be continually assessed during lead up and period of racing. Racing to be suspended if conditions deemed unsafe to race / hold event.	Health and Safety Officer and Match Director will monitor weather in lead up to and during event.	A	First aid available	Health and Safety Officer and Match Director to suspend racing if Very Severe Weather is forecast.	Low
17	Poor weather (general)	Competitors, Event personnel	Crews and craft unable to cope safely in conditions.	Unsafe on water, injuries, equipment damage, etc.	3	C	Only Offshore Racing boats that meet the World Rowing standards for construction are allowed to race. Rowing conditions to be continually assessed during lead up and period of racing. Racing to be suspended if conditions deemed unsafe to race.	Health and Safety Officer and Match Director will monitor conditions. Include evacuation in emergency plan	C	Support from Safety boats / beach life guards in a timely manner. Safe release point for crews towed in by safety boats to be designated, which minimises risks for competitors returning to shore (i.e. sheltered).	Health and Safety Officer to ensure that there are sufficient safety resources afloat and ensure sufficient beach lifeguards are on station. Health and Safety Officer to order suspension of racing if safety resources become committed to rescue and are no longer available to support others. This will depend on the nature of the incident, number of safety boats engaged, performance of other racing crews and weather.	Moderate
18	Lightning	Competitors, Event personnel	Struck by lightning	Electrocution / Burns	5	B	Local forecast will be monitored If there is unexpected lightning prior to the race start crews will be told NOT to go afloat. if crews are already afloat (have started) racing will be allowed to reach its conclusion. The 30/30 rule will then be applied and competitors and event staff ordered to seek cover whilst waiting for the lightning to pass	Any variation from 30/30 rule to be agreed by Health and Safety Officer and Match Director.	A	Rescue with Safety Boat, first aid, evacuation to hospital	Health and Safety Officer to ensure that there are sufficient safety resources afloat	Moderate

Racing Hazards

19	Other racing crews and other event craft	Competitors, Event Personnel	Racing craft involved in collisions with other racing boats or Event craft	Damaged to equipment and/ or injury to person	3	C	Courses placed according to World rowing guidelines to ensure sufficient room for competitors to race in lane without obstructing each other. Designated circulation pattern detailing training and racing zones. No rowing in the dark, or where visibility is insufficient (as above). Clear guidance to Safety, Umpire and other event craft regarding placement of craft in relation to racing craft.	Brief all Marshals, Umpires in official briefing. Brief Team Managers, to cascade to Crews, in Team managers meeting.	B	Support from Safety boats in a timely manner.	Health and Safety Officer to ensure that there are sufficient safety resources afloat and ensure sufficient beach lifeguards are on station. Health and Safety Officer to order suspension of racing if safety resources become committed to rescue and are no longer available to support others. This will depend on the nature of the incident, number of safety boats engaged, performance of other racing crews and weather.	Low
20	Poor steering & general incompetence in crews	Competitors, Event Personnel	Crews inability to cope with conditions safely and follow instructions	Damaged to equipment and/ or injury to person	2	B	Inexperienced crews are not encouraged to enter event, a degree of competence will be assumed given the qualifying criteria crews will need to meet to enter the event. Crews competence to be assessed during racing and crews showing incompetence in handling the prevailing conditions instructed to return to shore.	Health and Safety Officer and Match Director will monitor performance of crews and identify any crews who's behaviour may cause risk to others. Feedback from on water safety personnel and race umpires will be sought and taken into account	B	Support from Safety boats in a timely manner. Including taking action to reduce risk to other competitors, such as marshalling crews deemed incompetent.	Health and Safety Officer to ensure that there are sufficient safety resources afloat and ensure sufficient beach lifeguards are on station. Health and Safety Officer to order suspension of racing if safety resources become committed to rescue and are no longer available to support others. This will depend on the nature of the incident, number of safety boats engaged, performance of other racing crews and weather.	Low
Other water users												
21	General marine traffic	Competitors, Event Personnel, Members of the public	Race or official craft involved in collision with general marine traffic Persons entering the water, unable to self rescue (see entry 1)	Damaged to equipment and/ or injury to person	4	B	All race craft are required to follow the International Rules for Prevention of collision at sea (Col Regs) and the local marine traffic regulations. Local marine agencies informed of racing area. Safety Boats have authority to ask racing boats to change course if current heading will bring race craft into close proximity to other water users.	Brief all Safety boat crews. Brief Team Managers in the Team managers meeting of the requirement for crews to respect Col Regs and local marine traffic rules. Team Managers to cascade to Crews, Alert Local Harbour Authority to Race schedule and traffic pattern.	A	Support from Safety boats in a timely manner. Including highlighting racing craft to other water users. Racing craft to be kept in designated race / training areas. Other water users requested to stay out of racing area.	Include in the emergency action plan	Low
22	Harbour entrance	Competitors, Event Personnel, Members of the public	Race or official craft involved in collision with harbour traffic Persons entering the water, unable to self rescue (see entry 1)	Damaged to equipment and/ or injury to person	4	B	Limit the number of craft using main harbour approach and harbour slip way access Adhere to speed limits within harbour and approach Establish link to harbour authority, so as to be aware of significant traffic movements	Team Managers briefed regarding who may use the harbour slip and under what circumstance. Safety boat crews briefed re local marine traffic and harbour rules.	A	Support from Safety boats in a timely manner. Safety boats to maintain a watch on harbour movements. During accessible times one safety boat to maintain position to screen harbour traffic from the race area.	Include in the emergency action plan	Low
23	Other water users (jet skis, paddle boarders, kayaks etc.,)	Competitors, Event Personnel, Members of the public	Collision with other water user Persons entering the water, unable to self rescue (see entry 1)	capsize of participant and/or injury to other water user	4	C	Crew competence, situational awareness and compliance with circulation pattern Course placement to take into account public launch areas Race control and/or safety launches, marshalling or umpires boats to request any members of the public clear the course area	Brief all Marshals, Umpires and Safety boat crews on public interactions. Brief Team Managers on expectation that racing is secondary to public safety. Team managers to cascade to crews. Include in Safety Plan	B	Support from Safety boats in a timely manner. Safety boats to be conscious of other users and minimise risk to them through their own operation (no high speed approaches, minimum wake etc)	Include in the emergency action plan	Moderate
24	Swimmers	Competitors, Event Personnel, Members of the public	impact of a boat or launch with a swimmer Persons entering the water, unable to self rescue (see entry 1)	physical injury	4	B	Crew competence and awareness All event staff to watch for swimmers (not easily seen in rough waters) and inform safety boats of location and heading Beach Marshals to check start area prior to each race start, and warn swimmers / request they clear course.	Include in briefing notes for marshals and participants Ensure sufficient beach marshals in place to monitor whole start line with method of signalling start is safe / not safe	B	Support from Safety boats in a timely manner.	Include in the emergency action plan	Moderate
Going afloat and landing - Racing Vessels												
25	handling boats on land	Competitors, Boat handlers, Event Personnel, Members of public	Physical injury when carrying boats Interaction with other race competitors, event personnel, members of public	Physical injury (manual handling / bumps)	3	C	Unloading of boats from trailers to be carried out in a segregated area, Marshals to check sufficient people are present for any lift and interject if required. Manual handling of boats to be minimised, Trolleys to be available to bring boats to and from storage locations to beach. Marshals present around boat park and beach to spot poor handling and interject. Establish Beach traffic pattern - routes to the beach and barriered areas for boat storage on beach in preparation for start, where possible and practicable segregate these routes from members of the public.	Marshals to ensure any segregation is effective, where segregation is not possible manage competitor and public interaction (e.g. slipways or foot path crossings) Marshals given authority to direct competitors to ensure compliance with beach traffic pattern. Beach traffic pattern provided to crews in information pack and briefed at Team Managers briefing.	B	First aid provision on site	First aid team to be in contact with Match Director and Health and Safety Officer to ensure they have sufficient capacity to respond to a racing incident.	Low

26	boat handlers (start & finish)	boat handlers	Physical injury when supporting a beach start / recovery after racing. Loss of control of body temp due to exposure (entry into water or Sun/Heat) Boat handler entering the water - unable to self rescue . E.g. concussion (see entry 1)	Physical injury from impact with out of control boat / oars, strains during movement of boats	3	C	2 boat handlers to be present for each racing boat during a race start and finish, boat handlers to be competent (i.e. physically able to support boat and aware of where to place themselves - e.g. never put boat between themselves and a wave) Start area monitored by marshals to ensure sufficient boat handlers used and no obvious hazards present (rocks, debris) / coordinate their removal (obstructions recovered to beach or in short term moved to lane boundary). Marshals in attendance to direct movement of craft that have finished out of the finish area to a recovery area away from shore for being stripped down, to keep shore clear. Volunteers available to support boat movement and provision of trolleys.	Brief all Marshals in official briefing and Team Managers in Capitan meeting. Include in instructions to marshals.	C	First aid provision on site	First aid team to be in contact with Match Director and Health and Safety Officer to ensure they have sufficient capacity to respond to a racing incident.	Moderate
Event Vessels												
27	Launch and recovery of Event vessels	Event personnel	Injury during launch or recovery of event craft Weather making launch, transfer to, or recovery of event craft dangerous.	impact, crush, strain	4	C	Competent Coxswain for each vessel (min RYA Level 2 Power boat) to direct launch / recovery and ensure conditions permit a safe launch. Numbers of craft launching to be controlled to ensure sufficient space available to manoeuvre vessels on trailers. Area to be marshal controlled or barriered if practicable (i.e. not blocking a public right of way)	Health and Safety Officer to ensure crews designated meet competence requirements. Marshals to be briefed. Health and Safety Officer and Match Director will monitor conditions, if conditions become unsafe to launch / recover racing to be suspended / cancelled.	B	First aid provision on site	First aid team to be in contact with Match Director and Health and Safety Officer to ensure they have sufficient capacity to respond to a racing incident.	Moderate
28	Operation of Powered Craft	Event personnel	Use in heavy seas Person Overboard	Injury musculoskeletal (impacts over waves) Hypothermia	4	C	Competent Coxswain for each vessel (min RYA Level 2 Power boat) to take charge of vessel operations. Vessels acting as designated Safety Craft to have 2 people aboard at all times. Boat speed to be kept within speed limits and as low as reasonably practicable (unless a designated safety boat is responding to an emergency)	Health and Safety Officer to ensure crews designated meet to competence requirements. Health and Safety Officer and Match Director will monitor conditions, if conditions become unsafe to operate powered craft, racing to be suspended / cancelled.	B	Life Jackets to be worn. VHF radio carried on board Spare kill cord to be carried Procedure for response to Person overboard First aid provision on site	Health and Safety Officer to monitor controls detailed and ensure they are being enacted. First aid team to be in contact with Match Director and Health and Safety Officer to ensure they have sufficient capacity to respond to a racing incident.	Moderate
29	Putting out and retrieving turn buoys	Event personnel	Swamping of boat if too much weight in the boat Falling in the sea when dropping weight Entangled when dropping weight over the side.	Back injury Rope burns cold & wet Entry into water	3	C	Mark systems designed with weight in mind, Mark systems to be stowed aboard in individual tubs to facilitate keeping decks clear and free of entanglement hazards. Crew training conducted to ensure safe practices used. Crews to have sufficient Strength and manual handling competence / Lift with legs (not back) Aware of vessel capabilities (e.g. weight capacity) - no overloading. 2 people aboard any event vessel undertaking this task.	Health and Safety Officer to observe activities to ensure barriers detailed are in place. Also to seek feedback from Crews regarding issues / improvements.	B	First aid provision on site, wear lifejacket, Wear gloves	First aid team to be in contact with Match Director and Health and Safety Officer to ensure they have sufficient capacity to respond to a racing incident.	Low
30	Manual Handling during rescue	Event personnel	Injury to rescuer when pulling people from water	physical injury	3	C	Safety boat crews aware of how to recover people from water and how in practice to do this on the vessel they are using at least risk to themselves. Plan in place for Casualties returning to shore in flat or rough conditions. Volunteers available to support such activities. Casualty movements to be made in areas with minimal impact from waves and where lifting up and lowering of casualties is minimised.	Safety launch Crew training Health and Safety Officer in communication with Safety team and aware of any casualties returning to shore. Able to coordinate volunteer support.	C	First aid provision on site, wear lifejacket,	First aid team to be in contact with Match Director and Health and Safety Officer to ensure they have sufficient capacity to respond to a racing incident.	Moderate
31	Event vessel faults	Competitors, Event personnel	Failure of safety boat vessel during provision of rescue cover	Inability to be used as a control method for any incident highlighted in this assessment.	5	B	Event vessels to be checked prior to use for damage, fuel levels. Any operational issues to be highlighted to Health and Safety Officer and log kept. Equipment to be withdrawn from service if suspect operability is compromised until a repair may be carried out. If practicable, spare safety vessel to be available.	Damage / Issues log to be kept	A	If vessel operability compromised during duty, crew to inform Health and Safety Officer / Match Director. Other event vessel to addend and provided assistance / tow to shore. Match Director and Health and Safety Officer to assess impact to safety cover and decide if racing neds to be postponed / cancelled. At least 1 safety boat must be operational and afloat for racing to continue	Include in the emergency action plan	Moderate
Hazards in the Environment												
32	Temporary Beach structures	Competitors, Event personnel	Temporary structure falls, blown over etc	Physical injury (lacerations, broken bones etc)	3	C	Ensure all structures are sufficiently anchored down and robust enough to handle prevailing weather conditions.	Health and Safety Officer to check structure condition and anchoring after set up and around mid point of the day. Match Director and Health and Safety Officer to monitor weather conditions and advise on use of structures given forecast.	B	First aid provision on site	First aid team to be in contact with Match Director and Health and Safety Officer to ensure they have sufficient capacity to respond to a racing incident.	Low

		People	Probability				
			A	B	C	D	E
			Highly improbable (has not been known to happen in rowing)	Improbable (has been known to happen in rowing)	Possible (1 in 10 year event)	Probable (1 per year event)	Highly probable (>1 per year event)
Severity	1	Slight injury or health effect <i>(Requires little or no treatment)</i>	Low	Low	Low	Low	Moderate
	2	Minor injury or health effect <i>(Requires First Aid or rest)</i>	Low	Low	Low	Moderate	Substantial
	3	Moderate injury or health effect <i>(Requires treatment beyond simple First Aid)</i>	Low	Low	Moderate	Substantial	Intolerable
	4	Major injury or health effect <i>(Requires hospital treatment for more than one day)</i>	Low	Moderate	Substantial	Intolerable	Intolerable
	5	Fatality or Life Threatening Injury or Health Effect	Moderate	Substantial	Intolerable	Intolerable	Intolerable

Low	<p>An acceptable level of risk. No additional barriers/controls are required. Start or continue the activity but check that the current barriers/controls remain effective.</p>
Moderate	<p>An acceptable level of risk that should be reviewed. Implement additional barriers/controls to reduce the risk if the opportunity arises. Start or continue the activity with care.</p>
Substantial	<p>An unacceptable level of risk. Improve the barriers/controls and allocate resources to reduce the risk. Do not start or continue the activity until the risk has been reduced.</p>
Intolerable	<p>An unacceptable level of risk. Improve the barriers/controls and allocate resources to reduce the risk. Do not start or continue the activity until the risk has been reduced. Prohibit the activity if it is not possible to reduce the risk.</p>