

Risk Assessment



Event	City of Cambridge Rowing Club (CCRC) Races on River Cam	Date:	Nov-17
Author	Events Rowing Safety Advisor (I.Wellwood)	Rev:	Nov-18

No:	Hazard	Reduce probability a Hazard causing a Hazardous Event		Hazardous Event	Reduce the Severity of Harm		Harm	Severity (1-5) [1]	Probability (A-E) [2]	Level of Risk (L/M/S/I)	Action Owners					
		Barriers	Action to maintain barriers		Controls	Action to maintain controls					Event Committee	Event RSA	Umpires & Marshalls	Control Commissions	other	
Water																
1	Boats on water for practice	Coaches and crews must have read the Safety Briefing and circulation plan before going afloat for practise or racing.	Prepare and provide safety briefing and inform coaches and crews that they must read it.	Capsize or sinking during practice	Safety plan and instructions available to competitors	Send Safety plans to clubs and instruct them to inform their crews. Display safety plan on CCRC website.	Cold water immersion leading to mild hypothermia	2	C	Low	X	X				
2					Coxes' life jackets checked by Umpires prior to going afloat to race. Particular attention paid to "front loader" boats (unlikely to be many of these at this regatta).	Ensure that Umpires checking equipment have instructions							X	X		
4	Boats on water for racing	Coaches and crews must have read the Safety Briefing and circulation plan before going afloat for practise or racing.	Prepare and provide safety briefing and inform coaches and crews that they must read it.	Capsize or sinking during a race	Every race will be monitored by marshals.	Ensure marshals are appropriately briefed.	Cold water immersion leading to mild hypothermia	2	C	Low	X	X	X			
5					Marschals are fully equipped with throwbag, radio, mobile phone, HiViz vest and megaphone.	Ensure that there is sufficient safety cover. Check equipment prior to use.					X	X	X	X		
6					Coxes' life jackets checked by Umpires prior to going afloat to race.	Ensure that Umpires checking equipment have instructions and a checklist							X	X	X	
Weather																
1	Sudden bad weather causing un-rowable and/or dangerous conditions	Any umpire or other key race official will stop racing. Any crews on the water will be moved into the most sheltered area and shepherded back to the landing stages by umpire launches and rescue boats.		Boats capsize or are swamped	Fully equipped marshals are in 2-way radio contact at all times.	Ensure that there is sufficient safety cover. Check equipment prior to use.	Cold water immersion leading to mild hypothermia	3	C	Moderate	X	X	X			
2					Coxes' life jackets checked by Umpires prior to going afloat to race.	Ensure that Umpires checking equipment have instructions.							X	X	X	
3	Possibility of electrical storm	Provisions laid down in the document "Developing an action plan for risk from lightning" available from British Rowing to be followed:-	Ensure that Marshals, Umpires, Coaches and crews are adequately briefed.	Rower or official struck by lightning	Provisions for first aid, medical treatment, and casualty evacuation to hospital.	Ensure that first aiders, etc., are competent and properly equipped with access to CCRC First Aid kits.	Electrical burns, shock	3	B	Low	X	X	X			

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4		*Suspension and resumption of racing should follow the 30/30 rule: racing should stop when the flash-to-bang count is 30 seconds, and should not resume until 30 minutes after the last lightning.*	Any variation from 30/30 rule to be agreed unanimously by Event Chairman, Safety Adviser, Starter, Race Committee Chairman and all members of Race Committee.								X	X	X			
5		All crews to leave the water immediately, instructions from Safety Adviser or Race Committee Chairman using radios. Move rowers from the bank to areas of safety.	Ensure that Marshals, Umpires, Coaches and crews are adequately briefed.		Briefing for all officials and marshals and identification of places of safety along race course.						X	X	X			
Other water users																
1	Many Boats on the water	Marshals with megaphones and 2-way radios located at key points of the course to be vigilant for potential collisions and to take actions to minimise any collisions.	Ensure that Marshala are properly equipped and briefed	Collision	Bow balls, heel restraints and buoyancy compartment aids may be inspected by Umpires prior to going afloat to race.	Include in briefing for Control Commission		2	C	Low	X		X			
2		Warming up or practice starts are not allowed when there is congestion and risk of icollision.	Ensure that this is included in the information and briefing to coaches and crews.		Competitors and coaches are responsible for ensuring that their boats are safe and are prepared to the required standards at all times including practice.	Include in information to Clubs					X	X				
3		During the specified race times, no crews are allowed on to the race lanes unless for a race itself.	Ensure that this is included in the information and briefing to coaches and crews.								X	X	X			
4		Prior notice is given to other river users of the event - requesting craft to travel at very slow speed.	Ensure that notice is provided.		Vigilance from course marshals	Radio communication between marshals and Race Control informing of other vessels on the course					X	X	X			
5	Racing	In accordance with British Rowing's rules of racing.	Include this fact in information for competitors	Collision between 2 racing crews during a race	If a clash becomes serious and is likely to damage equipment or athletes, the umpire should stop the race.	Ensure that Umpires are properly equipped and briefed		3	B	Low	X	X	X		X	
6		For side- by- side racing - Umpires and marshals monitor each race and instruct the crews to move apart (or for one out-of-station crew to move into their own water).	Remind Umpires & marshals		Crews briefed	Crews to act on instructions from Umpires / marshals					X	X	X			

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7	Racing			Injury of athlete during a race (e.g., hit by blade as a result of a crab, hit by another boat in a collision, etc.)	Umpire contacts Race Control, who summons First Aid or Emergency Services by radio.	Ensure that Umpires and Race Control are properly equipped and briefed		3	B	Low	X	X	X								
Local Environment																					
1	Overhanging trees or other obstacles of the route to the start	Warn crews and scullers to avoid hazards.	Include in briefing to competitors and marshals	Crews or scullers collide with trees or obstacles.	Assistance from marshals on bank if required on the day. Use of prior knowledge of obstacles e.g. Plan to remove submerged shopping trolleys / bicycles from riverbed.	Ensure that there is sufficient safety cover. Check equipment prior to use.	Rowers make contact with trees / obstacles.	2	C	Low	X	X	X								
Going afloat and landing																					
1	Congestion in the boating area	Two upstream stages in the boating area to be used for embarkation only. Two downstream stages are to be used only for disembarkation.	Ensure that Marshalls, coaches and crews are adequately briefed	Collision in boating area	If rescue is required, this will be co-ordinated by Event Control (located in the boathouse)	Ensure that Marshalls are properly equipped (throw lines, thermal blankets, radios.) and adequately briefed.	Minor injury or Cold water immersion leading to mild hypothermia	2	C	Low	X	X	X								
handling boats on land																					
1	Boats being moved in the presence of pedestrians and cyclists	Cycling is discouraged when there is congestion in the spectators' area.	Include in briefing to competitors and marshals	Collision of boat or cyclist with pedestrian.	Marshall contacts Race Control, who summons alerts First Aid or Emergency Services by radio. Cox and crew to pay attention	Ensure that first aiders, etc., are competent and properly equipped. Check that radios work properly and that users are competent to use them.	Minor injury	2	C	Low	X	X	X							X	
Faulty, incorrectly set and poorly maintained equipment																					
1	Failure of Event Control equipment	Communications check pre-race and testing of systems.		Loss of communication across the course	Ensure alternative systems available e.g. mobile phone / e-mail to Race Control	Ensure that Umpires and marshals are appropriately briefed.		2	B	Low	X	X	X								
2					Umpires and marshals will inform of any loss of communication. Faulty equipment - labelled and repaired	Ensure that communications are effective.					X	X	X								

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Pre-existing health conditions and low levels of fitness																
1	Pre-existing health conditions			Collapse of athlete on landing stages (e.g., asthma attack or serious fall)	Umpire contacts Race Control, who summons lifeguards and safety boat to assist and alerts Medical Officer and First Aid by radio.	Ensure that Umpires are properly briefed and equipped and that there are competent, well equipped first aiders, etc.	Serious health implications for competitor	3	B	Low	X					
2	Pre-existing health conditions			Collapse of athlete during a race (e.g., asthma attack)	Umpire / marshal contacts Race Control, who summons First Aid and / or Emergency Services by radio.	Ensure that Umpires / marshals are properly briefed and equipped and that there are competent, well equipped first aiders, knowledge of vehicle access points along the river - maps with co-ordinates provided to marshals.	Serious health implications for competitor	3	C	Moderate	X	X	X			X
Other																
1	Use of balcony			Drinking glass / bottles dropped from balcony onto spectator	All refreshments served in the bar to be in plastic glasses. on event day.	Ensure that bar staff are adequately briefed	Minor injury and wetting	2	C	Low	X					
2	Use of towpath by cyclists and pedestrians	Cycling is not permitted in the spectators' area.	Ensure that Marshalls, coaches and crews are adequately briefed	Collision involving cyclists and pedestrians on the towpath	Provisions for first aid, medical treatment, and casualty evacuation to hospital.	Ensure that first aiders, etc., are competent and properly equipped. Check that radios work properly and that users are competent to use them.	Minor injury to spectators and cyclists	2	B	Low	X	X	X			

[1] 1 = Slight Injury or health effect that requires little or no treatment, and has no potential for time off rowing or training. OR Minor damage to equipment (<£100)

2 = Minor Injury or health effect that requires First Aid treatment or rest only and has a potential for a few days off rowing or training. OR Low damage repair costs (>£500)

3 = Moderate Injury or health effect that requires treatment beyond simple First Aid and potential for a week or so off rowing or training. OR High damage repair costs (>£1000)

4 = Major Injury or health effect that requires hospital treatment for more than one day and potential for a few weeks off rowing or training. OR Very high damage repair costs (loss of boat, 3rd party damage)

5 = Fatality or life threatening injury or health effect that could end a rowing career OR Major damage & major costs (loss of several boats, high 3rd party damage)

[2] A = Highly improbable (has not been known to happen in rowing)

B = Improbable (has been known to happen in rowing)

C = Possible (could happen to about 1% of the competitors each decade)

D = Probable (could happen to about 1% of the competitors each year)

E = Highly probable (could happen to about 10% of the competitors each year)