

Reference	Assessment Status	Location	Approved Date	Assessment Description			SSW No.
Proteus 04	Approved	Orton Mere	November 13th 2023			Canoe/ Kayak WWR- Orton Mere Slalom	
PPE Approved helmet, Personal Floatation Device, Suitable footwear		Assessment Team M Stegeman, P Atkinson					
Hazard	Risk(s) From Hazard(s)	Persons Exposed To The Risk(s)	Existing Controls	LI	SE	FRR	Additional Controls
Slips Trips Falls - river/ course access/ egress	Bruising, Broken Bones,	Competitors	River entry via purpose built low level access point, accessed via tarmac path.	1	2	2	Paddlers advised to wear suitable footwear SUP Briefing
Impact with bridge supports	Bruising, Graze	Competitors	Course design allows for suitable distance from fixed obstacles. Single return marker located suitable distance from structures. PPE - Helmet, bouyancy aid (personal floatation device).	1	2	2	Daily course review in case of change to water levels
Impact with structure of sluice resulting from capsiz upstream close to the shelf	Bruising, Graze, Concussion	Competitors	Course design to ensure adequate distance from sluice, flow away from structures Review of course prior to start to ensure no requirement to cross the tow back if the level causes this to be present PPE - Helmet, PFD First Aid available on site. Rescue craft to assist in safe egress.	1	3	3	Daily course review in case of change to water levels
Impact with river bed, submerged objects	Cuts, Lacerations, Punctures	Competitors	Significant percentage of the course remains deep enough to greatly reduce the likelihood of contact with the bottom. Area close to the finish is shallow enough to stand and consists of shelving gravel bottom, shelving created by submerged hull. Of river boat. Egress point is on the opposite side of the river - low platform designed for portage egress. PPE- Helmet, PFD, Suitable footwear. Rescue craft to assist in safe egress First Aid available on site.	2	2	4	Briefing
Impact with slalom gates	Minor bruises, graze	Competitors	Gate poles of lightweight, weighted plastic design, no sharp edges., Suspended design allows movement away from point of impact dissipating impact energy PPE: Helmet, Arm covering. Course design will allow a route away from gates greatly reducing likelihood of impact	1	1	1	First Aiders in attendance
Dangerously high river levels	Drowning	Competitors	Course design to ensure adequate distance from sluice, flow away from structures Review of course prior to start to ensure no requirement to cross the tow back if the level causes this to be present PPE - Helmet, PFD First Aid available on site. Ra	1	5	5	Course review
Other River users - collision between other craft and competitors	bruising, impact wounds, abrasions, head injuries	Competitors	Course design allows for clear passage to and from the lock with significant flat water margin away from the route taken by approaching and leaving craft. Lock is a single craft design with dwell time sufficiently long to provide many minutes between passing craft. Location provides ample short term mooring to allow craft to tie up or turn without encroaching the access point or course Signage in place for other river users. Briefing to paddlers to cross to the access/ egress point only when sufficient gap between craft is presented. Contact in advance with Peterborough Yacht Club to make members aware	1	4	4	Briefing
Capsiz and competitor caught in boat	Drowning	Competitors	Numerous other canoists on the water with rescue brief, club members trained on rescue. Short distance with drift towards rescue craft. Close proximity to banks, accessible from both sides Throw lines and life belt strategically placed on both banks.	1	4	4	
Capsiz, time in cold water	Hypothermia	Competitors	Weather and time of year dependent. Sheltered location. Numerous other canoists on the water with rescue brief, club members trained on rescue. Short distance with drift towards rescue craft. Close proximity to banks, accessible from both sides Throw lines and life belt strategically placed on both banks. Egress points on each side of the river- immersion time likely to be short. Proximity to club house to provide warmth and shelter for recovery.	1	4	4	First Aiders in attendance

Risk Evaluation Criteria
Each assessment step will be evaluated and will quantify an overall risk score based on a 5 x 5 matrix as follows:

Likelihood	Severity				
	1	2	3	4	5
	2	4	6	8	10
	3	6	9	12	15
	4	8	12	16	20
5	10	15	20	25	

Risk scoring can be determined using the following matrix of Likelihood & Severity:

Likelihood (L)

- Rare** - less than 1% chance of occurrence during a person's working lifetime; 1 in 1,000,000 or less often
- Possible** - event expected to occur once during a working lifetime on a daily activity; 1 in 10,000 to 1 in 100,000
- Probable** - event expected to occur once every 25 years on a daily activity; 1 in 5000
- Likely** - event expected to occur every 5 years on a daily activity; 1 in 1000
- Almost Certain** - event expected to occur once every 6 months on a daily activity; 1 in 100 or more often

Severity (SE)

- Minor** - First Aid or less; Exceedance of an internal permit to discharge; Non-reportable spill; or Property damage with 1 day business interruption or <\$250,000 cost
- Significant** - Medical treatment; Permit exceedance; Reportable spill remaining on facility; or Property damage between 3 and 5 days business interruption or \$25,000 - \$50,000
- Serious** - Medical treatment or DAFW; Permit exceedance; Non-Reportable spill leaving the facility; or Property damage between 1 and 7 days business interruption or \$51,000 - \$250,000
- Severe** - Permanent disabling injury; Multiple permit exceedances; Reportable spill leaving the facility; Property damage >7 days business interruption and costs or \$251,000 - \$1 million
- Major** - Fatality; Exceedance that results in impact to the community or environment causing interruption in public service; Property damage > 1 month business interruption and costs exceeding \$1 million

Final Risk Rating (FRR)

1-6	Acceptable Risk; continue to review as normal
7-15	Medium Risk; take precautions when completing process and task; search for better controls
16-25	High Risk; STOP process task with immediate effect; develop improved controls