



RATIOS:

Minimum 2 helpers but 3 recommended. 28 participants max

SUPERVISOR POSITION:

- One adult to spot on the boat. Min spotter age 14 years.
- One adult to check and prepare next participants
- One adult to assist with participant control and / or help on the rocket

SUPERVISOR ROLES:

Adults on the raft should check participant lifejackets and helmets before rides. Adults should

SAFETY ACTION PLAN

help loading the rocket for each ride and support participants. Adult on the boat should help with spotting.

EQUIPMENT SUPERVISOR:

Cell phone, Rocket hook

EQUIPMENT PARTICIPANT:

Togs or wet suit. Towel

PARTICIPANT REQUIREMENTS:

- a) Minimum age: 5 years or older
- b) Minimum level of competency: should have confidence to tread water and be in water over their heads

ACTIVITY: ROCKET

RESTRICTIONS:

People with neck, back, or head injuries.
People with water anxiety issues

ACTIVITY IN OPERATIONS:

Activity is instructed by FP staff.

Activity	The Rocket			Supervision category	FP Instructor required X
Area	Lake Karapiro, Zone 10, and 11			Date reviewed	July 2017
Hazard (what poses the threat)	Poss. Risk (injury outcomes)	Category (environment, people, equipment)	Risk Rate	Controls in place (What we do to either eliminate, minimise or isolate the hazard or risk)	Responsible (who is responsible for dealing with this hazard during activity)
Water	Drowning	envir	High	Participants wear lifejackets which are checked by the instructor and adult supervisors. Where needed supervising adults are put on the rocket to assist with participants who are non-confident swimmers. The vessel is equipped, according to Maritime NZ standards, with boat hook, and throw bag in case a panic situation might occur. Vessel skipper is trained according to the MNZ approved training framework and is always equipped with a cell phone to report back to base ASAP. On the raft whilst waiting for vessel to return, participants are supervised by adults, and instructed not to swim in the lake.	FP staff
Other participants colliding	(Head) injuries	people	High	All care is taken not to flip the Rocket on purpose or where possible to prevent the rocket from flipping when going in a straight line behind the tow boat. Collision occurs when two occupants collide and body parts come in contact with the head of one of the participants. Boat speed is kept to safe level and a boat spotter is always present on the boat. The vessel is manoeuvred in such a way as to minimise any collision. Care is taken not to place adults with children on the rocket for two reasons; 1 Adults raised centre of gravity is higher and therefore might tip rocket easier. 2 Adults might fall on top of smaller participants and injure them. If an adult has to accompany a child, the rocket ride will be of a slow nature. FP Skippers receive specific training to prevent any injury. Kayak helmets are worn by participants.	FP staff
Tow rope	Rope burn	equip	Medium	When returning the rocket to a group in the water and a semi-circle is performed the boat driver will always approach group at less than 5 knots. Boat will be in neutral when occupants are climbing back onto rocket. Participants are instructed to not wrap the rope handles around their hand or wrist, and to let go as soon as they feel the rocket starts to tip.	FP staff
Boat	Participant run over	people	High	The vessel is always occupied with a boat spotter so the driver can focus in front of boat. As soon as an occupant falls of rocket, boat is turned around and a semi-circle is formed around the occupant to protect them from other possible approaching boats. When more than one boat is used all care is taken never to follow the front boat in a straight line behind. And a distance of at least 80 meters is kept between the boats. Our skippers observe all navigational rules and by laws for Lake Karapiro, through extensive training and assessment by Finlay Park as approved by MNZ	FP staff
Submerged obstacles	Crash into submerged obstacle	envir	Medium	Where possible fallen trees in the lake are removed and towed away. Boats drivers will always stay clear of side of lake to at least 10 meters. A map with low and submerged objects is part of the driver training.	FP staff
weather	Hypothermia	envir	Medium	On cold and wet day's session might be cancelled or shortened (max time 1.5 hours) and participants are advised to wear wetsuits or other insulating materials. The raft is covered so participants can get changed and or store warm clothes or towels on their return. (ride time: 6 minutes per ride)	FP staff
weather	Sun burn	envir	Medium	Participant are advised to wear sun block at all times on exposed skin	Supervising adults and participants



SAFETY ACTION PLAN

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