

# Raft Building Risk Management Plan



School: \_\_\_\_\_ Year: \_\_\_\_\_ Dates: \_\_\_\_\_

Program: \_\_\_\_\_ Supervising Staff: \_\_\_\_\_

## Activity Context

The rock climbing wall at Lutanda Yarramundi is located on the side of the Activity tower facing the road. Rock climbing is a fun way to challenge participants in their confidence, teamwork and trust. Participants belay each other as they attempt to climb as high up the wall as possible.

### Leader to Participant Ratios

1 **Activity Facilitator** to 17 participants

For all groups with participants under 18yo:  
Group is required to have a **Supervising Adult/Teacher**, provided by the group, present

Variations to ratio requirements may occur on a group by group basis.

### Participation Requirements

Minimum Age: 8 years of age

Variations to participant requirement may occur on an individual client assessment.

### Equipment

Participants are required to wear/have the following:

- Appropriate environmental protection (ie. Hat, sunglasses, t-shirts, raincoat, warm clothing)
- Enclosed footwear
- Adequate water
- Any personal medication required (ie, asthma, epipen etc.)

The following personal protective equipment is provided and must be worn by participants using the course:

- Personal Flotation Device (PFD)

### Activity Facilitators

Activity Facilitators are Lutanda Activity Staff or equivalent.

Activity Facilitators are trained and signed off as competent to run activity by qualified permanent Lutanda staff member.

Activity Facilitators hold current first aid and CPR certificates.

Note: Where it is not specified the management of risk is expected to be undertaken by the Activity Facilitator.

### Emergency

Activity Facilitators have small First Aid Kit and Comms available throughout each session.

Large First Aid Kit available in First Aid/ PA room in main dining hall.

For minor incidents, Activity Facilitator communicates with Activity Manager or Site Manager and fills out Incident Report Form.

For major Incidents/ fatality, Activity Facilitator manages scene, performs initial First Aid and calls **000** when Activity Manager or Site Manager is not available. Activity Facilitator fills out Incident Report Form.

Yarramundi site is less than 1 hour from ambulance care. First Aid is performed in this context.

## Risk Management Plan

| Hazard / Risk Description  | Existing Control Measures   | Risk Rating |              |             |
|--|---|-------------|--------------|-------------|
|  |   | Likelihood  | Consequence  | Risk Rating |
| <b>Activity Specific</b> – Risk factors specifically associated with activity at Lutanda Mt Yarramundi |   |             |              |             |
| <b>Drowning</b>  | <ul style="list-style-type: none"> <li>Participants are required to wear Level 50 PFDs at all times while on the water and testing rafts that are correctly fitted and checked by activity instructor</li> <li>Activity Facilitator is assessing and mitigating risks of drowning by monitoring participants on the water and monitoring participants behaviour and well being on the water.</li> <li>Activity Facilitator instructs participants to stay within 50 m of land and has paddle, PFD or throw rope ready to perform rescues.</li> <li>Activity operates on flat water, easy grade.</li> <li>Swimming ability of all participants is acquired and 'weak' swimmers to be monitored more closely</li> </ul> | Rare        | Catastrophic | Medium      |

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V?: month, year.

| Hazard / Risk Description   | Existing Control Measures  | Risk Rating |             |             |
|---|--|-------------|-------------|-------------|
|   |  | Likelihood  | Consequence | Risk Rating |
| <b>Entanglement</b> from ropes while on the water.  | <ul style="list-style-type: none"> <li>Activity Facilitator ensures all rope is securely tied and there are no loose ends or slack in the ropes before testing the raft on the water.</li> </ul>   | Unlikely    | Minor       | Low         |
| <b>Entrapment</b> in raft while on water.   | <ul style="list-style-type: none"> <li>Activity Facilitator ensures all parts of raft is 'secure' (ie. Planks of wood are not moving around to cause an entrapment hazard)</li> <li>Activity Facilitator has rescue aids (PFD, paddle, throw rope) ready to assist participants if required.</li> </ul>  | Unlikely    | Moderate    | Medium      |
| <b>Impact</b> from participants carrying planks of wood and hitting other participants.                         | <ul style="list-style-type: none"> <li>Participants briefed on safe way to lift and carry planks of wood – 2 people carrying planks on each end to prevent 1 person carrying it in the middle and having ends swing and hit others.</li> <li>Activity Facilitator monitors that planks of wood are carried correctly.</li> </ul>   | Unlikely    | Minor       | Low         |
| <b>Moving/ Lifting of heavy object (planks of wood, buoyant drums)</b>  | <ul style="list-style-type: none"> <li>Correct lifting methods for handling heavy objects used – bend knees, straight back.</li> <li>Drums rolled as much as possible instead of lifting where possible.</li> <li>2 participants required to lift planks of wood.</li> </ul>   | Rare        | Moderate    | Low         |
| <b>Submerged objects</b> in the water (ie. Broken glass, logs, other objects)                                   | <ul style="list-style-type: none"> <li>Participants to wear enclosed, sturdy and protective footwear for the duration of the activity (including when in the water testing raft).</li> <li>Activity Facilitator to inspect area where the rafts will be tested and remove (remove rubbish, not use area of high risk in the river) or warn of any risks (make participants aware of fallen log)</li> </ul>   | Unlikely    | Minor       | Low         |
| <b>Slipping/Tripping/ Fall/</b><br>From uneven surfaces, equipment, trip hazards, obstacles in the environment. | <ul style="list-style-type: none"> <li>Area inspected by Activity Facilitator prior to activity and any hazards removed or mitigated eg. Sticks &amp; rocks on the ground removed.</li> <li>Equipment in activity area set up in an organised manner to reduce trip hazards</li> <li>Ropes untied from raft, untangled and coiled after each session and stored in crate.</li> <li>Raft adequately secured before participants test in water to prevent impact from falling/ hitting of raft objects.</li> </ul> | Unlikely    | Minor       | Low         |

| Hazard / Risk Description   | Existing Control Measures   | Risk Rating |             |             |
|---|---|-------------|-------------|-------------|
|   |   | Likelihood  | Consequence | Risk Rating |
| <b>People – Risk factors associated with the people using the activity</b>  |   |             |             |             |
| <b>Participant Behaviour</b><br>Inability or decision to not follow directions or cooperate   | <ul style="list-style-type: none"> <li>• Clear behaviour expectations set at start of activity sessions</li> <li>• Encouraging supportive environment</li> <li>• Activity Instructor collaborates with Adult Supervisor/ teacher to maintaining adequate supervision of all participants throughout the session.</li> <li>• Outline consequences of inappropriate behaviour</li> <li>• Removal of individual from activity or cancellation of whole activity if safety procedures and instructions are not being followed.</li> </ul>                                   | Unlikely    | Major       | Medium      |
| <b>Participant Ability</b><br>Unable to complete activity due to: <ul style="list-style-type: none"> <li>• Fear / Anxiety</li> <li>• Complacency / Overconfidence</li> <li>• Physical Ability</li> </ul>  | <ul style="list-style-type: none"> <li>• Activity Instructor promotes a supportive environment</li> <li>• Participants briefed according to age, ability, experience</li> <li>• Participation is based on meeting requirements</li> <li>• Demonstration of understanding and/or skills must be shown prior to undertaking activity</li> <li>• Participants are guided through activity supportively by Activity Facilitator</li> <li>• Activities are challenge by choice - participants are positively challenged but not forced to participate in activity</li> </ul> | Possible    | Moderate    | Medium      |
| <b>Activity Facilitator</b><br>Unsafe practices leading to an injury to a participant caused by: <ul style="list-style-type: none"> <li>• Poor supervision and instruction by Activity Facilitator</li> <li>• Incompetence of Instructing activity</li> </ul> | <ul style="list-style-type: none"> <li>• Activity Facilitators must follow Standard Operating Procedures at all times</li> <li>• Activity Facilitators are trained and signed off as competent to run activity by qualified permanent Lutanda staff member.</li> <li>• Formal qualifications in Outdoor Recreation and instructing activity area desired.</li> <li>• Communication equipment available readily at activity sessions</li> <li>• Vigilant supervision required by Activity Facilitator at all times</li> </ul>  | Unlikely    | Major       | Medium      |

| Hazard / Risk Description   | Existing Control Measures  | Risk Rating |             |             |
|---|--|-------------|-------------|-------------|
|   |  | Likelihood  | Consequence | Risk Rating |
|   | <ul style="list-style-type: none"> <li>Leader personal protective equipment and rescue equipment available at activity at all activity sessions</li> </ul>   |             |             |             |
| <b>Supervising Adult</b><br>Unsafe practices including: <ul style="list-style-type: none"> <li>Poor supervision by group leaders</li> </ul>       | <ul style="list-style-type: none"> <li>Groups briefed on requirement to provide Supervising Adult for groups with participants under 18 years old, prior to camp and activities.</li> <li>Activity Facilitator will stop or cancel activity without adequate supervision from Group Leader</li> </ul>  | Unlikely    | Major       | Medium      |
| <b>Observers</b><br>Injury to...<br>Guests or others observing activity while it is running   | <ul style="list-style-type: none"> <li>Observers not allowed to participate in activity without activity briefing</li> <li>Observers briefed on safe areas to view the activity and monitored by Activity Instructor.</li> </ul>   | Unlikely    | Major       | Medium      |
| <b>Unsupervised Users</b><br>Injury to...<br>Guests on site when activity is not running;<br>Members of public accessing camp land (unauthorised) | <ul style="list-style-type: none"> <li>Groups briefed on not using facilitated activities without Activity Instructor</li> <li>Gates giving access to heights locked when not in use.</li> <li>Activity equipment packed and locked away after use.</li> <li>Signage at low ropes instructing Unsupervised users to keep off.</li> </ul>   | Unlikely    | Major       | Medium      |
| <b>Equipment – Risk factors associated with the equipment used for the activity</b>   |  |             |             |             |
| <b>Equipment Failure</b><br>Due to improper use, faulty / damaged equipment, wear and tear.   | <ul style="list-style-type: none"> <li>Activity Facilitators trained in selection, use, inspection, care &amp; maintenance of activity equipment</li> <li>Activity Facilitators inspect equipment prior to use by the participant each time and not used if there is an issue with the equipment – equipment reported to Activity Manager.</li> <li>Participants briefed on proper use and care of equipment eg avoid standing on equipment and store in designated area when not in use.</li> <li>All equipment clearly stored and labelled for intended activity.</li> <li>Equipment regularly inspected and maintained</li> </ul> | Rare        | Major       | Low         |

| Hazard / Risk Description   | Existing Control Measures  | Risk Rating |              |             |
|---|--|-------------|--------------|-------------|
|   |  | Likelihood  | Consequence  | Risk Rating |
|   | <ul style="list-style-type: none"> <li>Equipment stored, maintained and retired according to manufacturer instructions and retired early if showing significant signs of wear and tear.</li> <li>All equipment rated and certified for its use and used according to manufacturer guidelines.</li> </ul>                                 |             |              |             |
| <b>Environment</b> – Risk factors associated with the environment including weather |  |             |              |             |
| <b>Exposure to UV rays</b><br>Causing sunburn                                       | <ul style="list-style-type: none"> <li>Sun smart strategies are encouraged</li> </ul>  | Possible    | Minor        | Low         |
| <b>Exposure to Heat</b><br>Causing dehydration, heat stroke etc.                    | <ul style="list-style-type: none"> <li>Sun smart strategies are encouraged</li> <li>Participants are encouraged to drink water, carry water bottles</li> <li>Guests are briefed on location of water filling facilities on arrival</li> <li>In extreme heat activities modified / cancelled and alternate activities arranged</li> </ul> | Unlikely    | Moderate     | Low         |
| <b>Cold / Wet Weather</b><br>Causing hypothermia etc.                               | <ul style="list-style-type: none"> <li>Weather conditions regularly monitored for adverse conditions</li> <li>Participants briefed on wearing suitable protective clothing</li> <li>Activities modified / cancelled if necessary or alternate activities arranged</li> </ul>   | Rare        | Moderate     | Low         |
| <b>Lightning Strike</b>   | <ul style="list-style-type: none"> <li>Weather conditions regularly monitored for adverse conditions</li> <li>Activities delayed / cancelled when thunder or lightning is present, participants are moved to safe area.</li> <li>Activities modified / cancelled if necessary or alternate activities arranged</li> </ul>                | Rare        | Catastrophic | Medium      |
| <b>Injury, bites or allergic reaction caused by organism</b>                        | <ul style="list-style-type: none"> <li>Groups briefed on arrival of appropriate actions for sighting/be bitten by snakes</li> <li>Area monitored for bees, snakes, spiders and if spotted participants notified of the hazard and managed accordingly.</li> </ul>  | Unlikely    | Major        | Medium      |

| Hazard / Risk Description                      | Existing Control Measures   | Risk Rating |              |              |
|--|---|-------------|--------------|--------------|
|  |   | Likelihood  | Consequence  | Risk Rating  |
|  | <ul style="list-style-type: none"> <li>• Prescribed medication readily available if participant is high risk eg EpiPen.</li> <li>• Small first aid kits and radio communication readily available at each activity area, and a more comprehensive first aid kit available in the first aid room if required. Activity Facilitator administers first aid accordingly.</li> <li>• Medical attention/ ambulance sought if required.</li> </ul> |             |              |              |
| <b>Tree or Tree branch falling on person/s</b> | <ul style="list-style-type: none"> <li>• Regular checks of activity area carried out and appropriate maintenance performed eg. Dead tree branches removed</li> <li>• Participants briefed on safe waiting areas and high risk areas to avoid.</li> <li>• In high winds participants removed from under or near trees deemed high risk eg eucalyptus.</li> </ul>   | Rare        | Catastrophic | Satisfactory |

## Risk Ratings

This risk assessment is measured according to the following risk ratings:

### Likelihood Ratings

Likelihood is the description of the probability and frequency. The likelihood of the risks occurring as outlined in Lutanda Yarramundi risk management plans is determined after the control measures have been implemented.

| Score | Description    | Broad description of frequency                                    | Time framed description of frequency |
|-------|----------------|---|--------------------------------------|
| 1     | Rare           | The event may occur, but only in highly exceptional circumstances | Not expected to occur for years      |
| 2     | Unlikely       | Could occur at some time  | Expected to occur at least annually  |
| 3     | Possible       | Might occur at some time  | Expected to occur at least monthly   |
| 4     | Likely         | Will probably occur in most circumstances                         | Expected to occur at least weekly    |
| 5     | Almost certain | Is expected to occur in most circumstances                        | Expected to occur at least daily     |

### Consequence Ratings

The outcome of an event or situation expressed qualitatively or quantitatively, being the human impact, damage to infrastructure, disruption to public or financial loss.

| Score | Description   | Injury or impact details   |
|-------|---------------|--|
| 1     | Insignificant | Little or no injury requiring no medical attention; Minimal impact on environment; Insignificant adjustments to program; Insignificant damage to property, normal wear; Some difficulty in retaining competent staff; Expected running costs incurred  |
| 2     | Minor         | Minor injuries requiring first aid / some medical attention; Minor impact to plants / animals, no disruption to ecosystems; Rescheduling / replacement of program activities to client satisfaction; Damage requiring small repairs, low cost; Some difficulty in attracting, developing, resourcing and retaining competent staff; Minor costs incurred (<\$250)                |
| 3     | Moderate      | Serious injuries requiring hospitalisation / ongoing medical attention; Ecosystem / landscape self repairs within 12mo; Significant disruption / cancellation of program events; Damage requiring moderate repairs or replacement, moderate cost; Significant difficulty in attracting, developing, resourcing and retaining competent staff; Moderate costs incurred (<\$1,000) |
| 4     | Major         | Injuries that are life threatening or causing long term disability; Ecosystem / landscape self repairs within 36mo; Program disruption causing loss of program; Damage requiring high cost/projects for repair/replacement; Guest experience and program is majorly affected by lack of competent staff; Major costs incurred (<\$15,000)  |
| 5     | Catastrophic  | Fatality; Irrecoverable loss of ecosystem / landscape; Program disruption causing broad loss of reputation; Massive damage, significant replacement of infrastructure required; Programs unable to be fulfilled due to lack of competent staff; Massive costs incurred (>\$15,000)   |

The consequence of an incident occurring may vary greatly depending on the individual circumstances of each incident.

Example – A student trips and falls – a detailed analysis of falls might show that although falls occur weekly, more serious injuries from falls only occur once or twice a year. In the main most of the other falls have relatively minor outcomes. Therefore the incident could be scored either according to the severity of the actual outcome, or according to the most likely or typical outcome for that type of incident.

Both approaches are valid, however to ensure consistency Lutanda Yarramundi has adopted an approach to record the most likely or typical outcome for all incidents.

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V?: month, year.



### Risk Rating Matrix

All identified risks are recorded in the following risk matrix according to likelihood and consequence. The purpose of this matrix is to provide a snapshot of all identified risks and establish the level of risk to determine if further treatment is required.

| Likelihood         | Consequences      |   |                                     |   |  |
|--------------------|-------------------|---|-------------------------------------|---|--|
|                    | 1 - Insignificant | 2 - Minor   | 3 - Moderate                        | 4 - Major   | 5 - Catastrophic   |
| 1 - Rare           | 1                 | 2   | 3<br>Exposure to cold               | 4<br>Harness trauma, equipment failure  | 5<br>Fall from height, lightning strike, structure failure |
| 2 - Unlikely       | 2                 | 4<br>Falling object, injury from environment, chafing                 | 6<br>Entanglement, exposure to heat | 8<br>Injury to observers, unsupervised persons, participant behavior, unsafe activity facilitator, participant ability, group leader, allergic reaction | 10   |
| 3 - Possible       | 3                 | 6<br>Slipping, cuts, impact injury, rope burn, inverting, UV exposure | 9                                   | 12  | 15   |
| 4 - Likely         | 4                 | 8   | 12                                  | 16  | 20   |
| 5 - Almost certain | 5                 | 10  | 15                                  | 20  | 25   |

### Risk Treatment

#### 1-4 Low Risk

- Risk does not generally need to be managed any further (current controls are adequate), however the risk needs to be monitored for changes in circumstances and current control effectiveness.
- Risk generally may be accepted.

#### 5-9 Medium Risk

- Risk needs to be regularly monitored for any changes and control/treatment effectiveness.
- Risk may be accepted after consideration.

#### 10-14 High Risk

- Risk is unacceptable, risks must be further treated or removed to bring rating to medium
- Risks are to be re-assessed by Activities Manager

#### 15+ Extreme Risk

- Unacceptable risk, urgent attention is required to treat or remove risks
- Management to consider elimination of activity

Original Risk Assessment Conducted by: *Amanda Bennett, Activities Co-ordinator, Yarramundi* Date: 11/02/2019

Reviewed:

V1: month, year by: name, position, centre

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