# Common Hazards/Risks for typical restoration projects

*This risk register identifies some common risks for restoration projects. Please incorporate any that are relevant to your project into your own risk register.*

*You are welcome to use this format in developing your own site specific risk register.* ***Please do not copy it word for word. Be aware that this list is not exhaustive and there may be other risks involved in your project that you need to consider.***

Project Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date risk register updated: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Assessed by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

| **Risk I.D.** | **Activity** | **Hazards** | **Maximum Credible Impact (likely outcome of an incident)** | **Risk Assessment without Controls** | **Risk Controls** | **Current Risk Assessment** **(Residual Risk)** | **Comments**  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Consequence (C) | Likelihood (L) | Risk Ranking (C x L) | Consequence (C) | Likelihood (L) | Risk Ranking (C x L) |
| 1 | Working Near Water | * Stagnant water infections to exposed cuts/mosquito or other insect bits
* Drowning
* Current – being swept away
* Trapped due to snags from trees and other debris
* Sudden change in water levels
 | Death/medical treatment | 5 | 4 | 20 | * Induct all personnel to site and identify site specific hazard associated with working around water
* Provide insect repellent
* Appropriate clothing – long sleeves, and trousers, or waders
* Have first aid kits on site – clean all cuts and cover
* Wear life jackets or similar when working on or in the water
* Complete a risk review to determine strength of current – use of safety line, working downstream of snags.
* Check weather forecast before and during working in or near waterways
* Implement an emergency response plan
 | 5 | 3 | 15 |  |
| 2 | Working near fences | * Electric fence/electrocution
* Barbed wire cuts/laceration
* Trips or falls
 | Medical treatment | 2 | 3 | 6 | * Use gates or stiles where possible instead of climbing fences
* Climb fences close as possible to a fence post
* Ask land owner to switch off electric fences if possible
 | 2 | 2 | 4 |  |
| 3 | Fauna and Flora | * Insect or animal bites or stings
* Being crushed or struck by animals/livestock
* Allergies/anaphylactic shock
* Cuts from barbs or branches
* Trips and falls
 | Medical treatment | 2 | 3 | 6 | * Complete an induction – identify any personnel that may require assistance if stung or suffer allergic reaction
* Use insect repellent
* Ask land owner to move livestock from work area
* Carry first aid kits and other first aid items if required (Inhalers, Epi pens)
* Have first aid kits on site – clean all cuts and cover
* Use designated paths or walkways
 | 2 | 2 | 4 |  |
| 4 | Use of hand tools (Shovels, pruning saws, machetes.)  | * Cuts, blisters and scraps
* Sprains or strains
 | First aid/medical treatment | 2 | 3 | 6 | * Induction on safe use of tool or equipment
* Use of appropriate PPE (Gloves, boots or covered shoes)
* Stretch and warm up before use of tools and equipment
* Rest, hydrate and eat regularly
 | 2 | 2 | 4 |  |
| 5 | Accessing site in varied topography | * Ground conditions- slips trips and falls
* Site accessibility – require 4wd, hilly, embankments or bluffs
 | First aid/medical treatment | 2 | 3 | 6 | * Get a briefing on area where work in to be undertaken
* Use appropriate vehicle to access site (Do you need a 4WD?)
* Wear appropriate footwear
* Check weather forecast before going to site, will it have an impact on site access?
 | 2 | 2 | 4 |  |
| 6 | Working alone | * Injured and unable to communicate
* Loose bearings/lost
* Vehicle or other transport breaks down
 | Medical treatment | 4 | 3 | 12 | * Complete a risk assessment – Is it safe to work alone
* Implement a communication plan – Is there cell phone coverage if not how will you maintain communications
* Implement an emergency management plan
* Confirm planned route to site
 | 4 | 2 | 8 |  |
| 7 | Driving | * Use of incorrect vehicle to access site
* Other drivers on the road
* Weather/environmental
* Fatigue/hours worked
* Unskilled drivers/operators
* Time of day (early morning/driving at night)
* Distractions
 | Medical treatment or death | 5 | 3 | 15 | * Use appropriate vehicle to access site
* Complete any driver training if required (4WD)
* Review the weather forecast - Will the weather have any impact on site access (fording rivers etc.)
* Share driving activities to reduce fatigue
* Remain vigilante of other road users, obey the road rule
* Use hand free sets for cell phone use or pull over when using a cell phone while driving
 | 5 | 2 | 10 |  |
| 8 | Working outdoors | * Exposed to the elements – Sun, rain, ice, snow
* Changing weather – sudden rise in water levels, decreased visibility
 | First aid or medical treatment | 1 | 3 | 3 | * Wear appropriate clothes for the task being completed – long sleeves, trousers, sun hat
* Use sun block
* Rehydrate and eat regularly
* Plan for the weather conditions you are likely to encounter – review weather forecast
 | 1 | 2 | 2 |  |
| 9 | Landowner or occupier engagement | * Aggressive behaviours
* Not provided site access/have to use alternate route resulting in changes to work methodology
 | First aid or medical treatment | 1 | 3 | 3 | * Notify land owner in advance of going to site
* Notify and liaise with any third parties (Iwi groups) prior to going to site
* Confirm site access and comply with landowners requirements around livestock etc.
* If you discover any site being used for illegal activities do not touch anything, leave the area and report to the Police
 | 1 | 1 | 1 |  |
| 10 | Operating plant and machinery | * Personnel injury or injury to third party
* Collision or roll over resulting in damage to plant or property
* Damage to the environment (Spill, fire)
 | Medical treatment or death | 5 | 3 | 15 | * Trained or competent operator only to operate plant or machinery
* Supervision by a competent operator to be provided if any operators of plant and machinery are undergoing training
* Inspect all plant and machinery before use to ensure it is fit for purpose
* Only use plant and machinery for the purpose it was designed
* Ensure all licences are current where a licence to operate is required
* Report all incidents or damage to plant and machinery
 | 5 | 2 | 10 |  |
| 11 | Operating power tools | * Personnel injury or injury to third party
* Tool or equipment malfunction
* Damage to the environment (Spill, fire)
 | Medical treatment | 3 | 3 | 9 | * Trained or competent operator only to operate power tools
* Supervision by a competent operator to be provided if any power tools and are undergoing training
* Inspect all tools before use to ensure it is fit for purpose
* Only use tools for the purpose it was designed
* Report all incidents or damage to tools and equipment
 | 3 | 2 | 6 |  |
| 12 | Manual Handling | * Personnel injury -Sprains, strains, slip, trips and falls – Placing fish nets into waterways, slippery under foot conditions, lifting heavy loads
 | Medical treatment | 2 | 3 | 6 | * Warm up before carrying out any manual handling tasks
* Can the task be completed using a machine or a specific tool
* Only lift items that are within your safe lifting capabilities
* Report any sprains, strains or niggles
 | 2 | 2 | 4 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Severity | Description of Severity | Likelihood | Description of Likelihood | Risk Rating |
| 5 | Death | 5 - Very Likely | Is expected to occur in most circumstances:Once a year or more frequently | H |
| 4 | Extensive injuries including permanent disability | 4 - Likely | Will probably occur in most circumstances:Once every three years  | H/M |
| 3 | Moderate injury or moderate health impact (medical treatment including LTI) | 3- Possible | Likely to occur at some time:Once every ten years | H/M/L |
| 2 | Minor injury or minor health impact (medical treatment) | 2- Unlikely | Has been known to occur somewhere at some time:Once every thirty years | M/L |
| 1 | First aid injury | 1- Very Unlikely | May occur only in exceptional circumstances:Less frequently than once every thirty years | M/L |

|  |  |
| --- | --- |
| **Probability (Likelihood)** | **Consequence** |
| **1 low** | **2 Minor** | **3 Moderate** | **4 Major** | **5 Critical** |
| **1 - Rare** | Low | Low | Moderate | Moderate | High |
| **2 - Unlikely** | Low | Low | Moderate | High | High |
| **3 - Possible** | Low | Moderate | High | High | Extreme |
| **4 - Likely** | Moderate | Moderate | High | Extreme | Extreme |
| **5 – Almost Certain** | Moderate | High | High | Extreme | Extreme |