

C R A G G Y R A N G E
 ——— VINEYARDS LTD ———

HAZARD REGISTER AND RISK MANAGEMENT - LOCATION: MARTINBOROUGH VINEYARD

Reviewed by: Jeffery Farrell		Review Date: 04 th May 2016		Next Review: May 2017	
Hazards Identified	Harm that could occur	Is this hazard significant?	Eliminate? Isolate? Minimise?	Controls - Actions to Reduce Risk	
Chemical Poisoning through contact with toxic pesticides via dermal, oral, inhalation ingestion or through cuts & abrasions.	Potential for serious long term respiratory/digestive damage through inhalation or absorption of chemicals. Skin irritations.	yes	Isolate Minimise	All persons handling & applying chemicals must have Growsafe accreditation Refer to SOP on general chemical handling which outlines safe chemical handling procedures MSDS on file for all chemicals used on vineyard All persons must use specified PPE when handling and applying chemicals	
Poisoning injury resulting in use of chemical mixing units	Chemical poisoning causing nausea, dizziness, vomiting/diarrhea, fatigue, loss of balance, sweating, convulsions respiratory failure, coma or death.	yes	Isolate Minimise	Refer to SOP which outlines the safe operating procedures applicable to the chemical mixing unit Use PPE specified in SOP	
General injuries due to accidental shooting while bird shooting Burn injuries due to improper storage of ammunition. Risk of shot falling on neighbouring houses	Gun shot injuries resulting in damage to limbs, vital organs and head. Burns to skin, hair and organs. Loud noise on roof impact, Discomfort from falling shot	yes	Isolate Minimise	All persons using guns on the vineyard must have a current gun licence Refer to SOP which outlines the safe operating procedures applicable to the use of guns on the vineyard	
Noise induced hearing loss from firing of gas gun in close proximity	Potential for long-term hearing loss.	yes	Isolate Minimise	All persons working on vineyard while gas guns in operation are notified of the hazards associated with their operation Refer to SOP which outlines the safe operating procedures applicable to the use of gas guns on the vineyard	
Burn injuries resulting from use of gas cutter	Burns to skin, hair and organs.	yes	Isolate Minimise	Refer to SOP which outlines the safe operating procedures applicable to the gas cutting equipment All persons must use PPE as specified in SOP	

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Burn or electrocution injuries resulting from use of MIG welder	Burns to skin, hair and organs causing physical burn injuries and possibly death.	yes	Isolate Minimise	Refer to SOP which outlines the safe operating procedures applicable to the MIG welder All persons must use PPE as specified in SOP	
Burn or electrocution injuries resulting from use of portable electric welder	Burns to skin, hair and organs causing physical burn injuries and possibly death.	yes	Isolate Minimise	Refer to SOP which outlines the safe operating procedures applicable to the portable welder All persons must use PPE as specified in SOP	
General injuries resulting from use of bench grinder	Cuts, abrasions and general tissue or muscle damage.	yes	Minimise	Refer to SOP which outlines the safe operating procedures applicable to the bench grinder All persons must use PPE as specified in SOP	
General injuries resulting from use of hand held grinder	Cuts, abrasions and general tissue or muscle damage.	no	Minimise	Refer to SOP which outlines the safe operating procedures applicable to the hand held grinder All persons must use PPE as specified in SOP	
General injuries resulting from use of hand held electric drill	Cuts, abrasions and general tissue or muscle damage. Also strained, sprained or broken fingers.	yes	Minimise	Refer to SOP which outlines the safe operating procedures applicable to the hand held electric drill All persons must use PPE as specified in SOP Ensure care is taken when drilling large holes as the bit can grab causing the drill to spin out of your hand with the possibility of breaking a finger.	
General injuries resulting from use of fixed drill press	Cuts, abrasions and general tissue or muscle damage.	yes	Isolate Minimise	Refer to SOP which outlines the safe operating procedures applicable to the fixed drill press All persons must use PPE as specified in SOP	

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 ——— V I N E Y A R D S L T D ———

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General injuries resulting from use of hand push mowers	Deep tissue or muscle damage or potentially amputation.	yes	Isolate Minimise	Refer to SOP on hand push mower which details safe operating procedures applicable to the mower. Mower will be operated in accordance with manufacturers recommendations All persons must use PPE as specified in SOP
General injuries resulting from use of high pressure water blaster	Damage to eyes resulting in partial or complete vision loss. Physical damage to skin from high pressure water.	yes	Minimise	Refer to SOP which outlines the safe operating procedures applicable to the water blaster Use PPE specified in SOP
General injuries resulting from use of chainsaw	Potential for long term noise induced hearing loss. Potential for occupational overuse syndrome. Physical injury causing tissue or muscle damage as a result of saw kickback. Burns to skin, tissue and muscles from muffler or fuel igniting.	yes	Minimise	All persons operating chainsaw must complete an approved chainsaw operator course and operate chainsaw in accordance with manufacturers recommendations. Refer to SOP which outlines the safe operating procedures applicable to the chainsaw Use PPE as specified in SOP Refer to SOP outlining safe work practices outdoors
General injuries caused by use of weed eaters	Cuts and abrasive injuries caused by revolving blade or cord.	yes	Minimise	Refer to SOP which outlines the safe operating procedures applicable to the weed eaters. Weed eaters must be operated in accordance with manufacturers recommendations. Use PPE as specified in SOP Refer to SOP outlining safe work practices outdoors
General injuries due to Tractor Roll-Over or Collision	Potential for serious physical injury due to vehicles rolling.	yes	Minimise	All persons operating tractors must be trained in their safe use by completing a formal induction on the tractor by a senior staff member. Refer to SOP on specific tractor which details safe operating procedures applicable to the tractor

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				Tractors will be operated in accordance with manufacturers recommendations	
General injuries due to ATV Roll-Over or Collision	Potential for serious possibly fatal injuries	yes	Minimise	All persons operating ATV's must be trained in their safe use by completing a formal induction on the ATV by a senior staff member Refer to SOP on ATV which outlines the safe operating procedures applicable to the ATV ATV's must be operated in accordance with manufacturers recommendations	
General injuries caused by use of tractor mounted bird netting machine	Potential for serious possibly fatal injuries	yes	Isolate Minimise	All persons operating tractor and netting machine must be trained in its safe use by completing a formal induction on the tractor & net machine a senior staff member Refer to SOP on tractor mounted net machine which details safe operating procedures applicable to the machine. Tractor & net machine will be operated in accordance with manufacturers recommendations	
General injuries caused by use of ATV towed netting machine	Potential for serious possibly fatal injuries	yes	Isolate Minimise	All persons operating ATV and netting machine must be trained in its safe use by completing a formal induction on the ATV & net machine by a senior staff member Refer to SOP on ATV mounted net machine which details safe operating procedures applicable to the machine. ATV & net machine will be operated in accordance with manufacturers recommendations	

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General injuries resulting from use of tractor mounted post rammer	Potential for serious possibly fatal injuries	yes	Isolate Minimise	All persons operating tractor and post rammer must be trained in its safe use by completing a formal induction on the tractor & post rammer by a senior staff member Refer to SOP on tractor mounted post rammer which details safe operating procedures applicable to the post rammer. Tractor & post rammer will be operated in accordance with manufacturers recommendations
General injuries resulting from use of tractor mounted mowers	Potential for serious possibly fatal injuries	yes	Isolate Minimise	All persons operating tractor and mower must be trained in its safe use by completing a formal induction on the tractor & mower a senior staff member Refer to SOP on tractor mounted mower which details safe operating procedures applicable to the mower. Tractor & mower will be operated in accordance with manufacturers recommendations
Injury while operating Pellenc mechanical harvester	Potential for serious possibly fatal injuries	yes	Isolate Minimise	All persons operating Pellenc harvester must be trained in its safe use by completing a formal induction on the tractor by a senior staff member Refer to SOP on Pellenc tractor which details safe operating procedures applicable to the tractor Tractor will be operated in accordance with manufacturers recommendations
General injuries resulting from use of tractor mounted Pellenc trimmer	Potential for serious possibly fatal injuries	yes	Isolate Minimise	All persons operating Pellenc trimmer must be trained in its safe use by completing a formal induction on the trimmer by a senior staff member Refer to SOP on Pellenc tractor which details safe operating procedures applicable to the tractor

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				Tractor & Trimmer will be operated in accordance with manufacturers recommendations
General injuries resulting from use of heavy roller	Potential for serious possibly fatal injuries	yes	Isolate Minimise	All persons operating tractor and roller must be trained in its safe use by completing a formal induction on the tractor & roller by a senior staff member Refer to SOP on heavy rolling which details safe operating procedures applicable to the roller. Tractor & roller will be operated in accordance with manufacturers recommendations
General injuries resulting from use of tractor mounted mulcher	Potential for serious possibly fatal injuries	yes	Isolate Minimise	All persons operating tractor and mulcher must be trained in its safe use by completing a formal induction on the tractor & mulcher by a senior staff member Refer to SOP on tractor & mulcher which details safe operating procedures applicable to the mulcher. Tractor & mulcher will be operated in accordance with manufacturers recommendations
General injuries resulting from use of tractor mounted sprayers	Potential for serious possibly fatal injuries	yes	Isolate Minimise	All persons operating tractor and sprayers must be trained in their safe use by completing a formal induction on the tractor & sprayer by a senior staff member Refer to SOP on tractor & sprayer which details safe operating procedures applicable to the sprayer. Tractor & sprayer will be operated in accordance with manufacturers recommendations
General Injuries resulting from use of ATV towed sprayers	Potential for serious possibly fatal injuries	yes	Isolate Minimise	All persons operating ATV & sprayer must be trained in its safe use by completing a formal induction on the ATV & sprayer by a senior staff member Refer to SOP on ATV & sprayer which details safe operating procedures applicable to the sprayer. ATV

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				& sprayer will be operated in accordance with manufacturers recommendations		
	General injuries resulting from use of tractor mounted forklift	Potential for serious possibly fatal injuries	yes	Minimise	All persons operating tractor and forklift must have a current forklift operators' licence and be trained in its safe use by completing a formal induction on the tractor & forklift by a senior staff member Refer to SOP on tractor mounted forklift which details safe operating procedures applicable to the forklift Tractor & forklift will be operated in accordance with manufacturers recommendations	
	General injuries resulting from use of forklift	Potential for serious possibly fatal injuries	yes	Isolate Minimise	All persons operating forklift must have a current forklift operators' licence and be trained in their safe use by completing a formal induction on the forklift by a senior staff member Refer to SOP on forklift which details safe operating procedures applicable to the forklift. Forklift will be operated in accordance with manufacturers recommendations	
	General injuries resulting from use of Seed drill	Potential for serious possibly fatal injuries	yes	Minimise	All persons operating tractor and seed drill must be trained in their safe use by completing a formal induction on the tractor & seed drill by a senior staff member Refer to SOP on tractor & seed drill which details safe operating procedures applicable to the seed drill. Tractor & seed drill will be operated in accordance with manufacturers recommendations	

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General injuries resulting from use of tractor mounted Fertiliser spreader	Potential for serious possibly fatal injuries	yes	Minimise	All persons operating tractor and fertiliser spreader must be trained in their safe use by completing a formal induction on the tractor & spreader by a senior staff member Refer to SOP on tractor & spreader which details safe operating procedures applicable to the spreader. Tractor & spreader will be operated in accordance with manufacturers recommendations
General injuries caused by use of Pellenc mechanical leaf plucker	Potential for serious possibly fatal injuries	yes	Minimise	All persons operating Pellenc tractor and leaf plucker must be trained in their safe use by completing a formal induction on the tractor & plucker by a senior staff member Refer to SOP on Pellenc tractor & plucker which details safe operating procedures applicable to the plucker. Tractor & plucker will be operated in accordance with manufacturers recommendations
General injuries caused by use of tractor mounted gondola	Potential for serious possibly fatal injuries	yes	Minimise	All persons operating tractor and gondola must be trained in their safe use by completing a formal induction on the tractor & gondola by a senior staff member delegated Refer to SOP on tractor & gondola which details safe operating procedures applicable to the gondola. Tractor & gondola will be operated in accordance with manufacturers recommendations
General injuries resulting from use of tractor mounted cultivators	Potential for serious possibly fatal injuries	yes	Minimise	All persons operating tractor and cultivators must be trained in their safe use by completing a formal induction on the tractor & cultivators by a senior staff member Refer to SOP on tractor & cultivators which details safe operating procedures applicable to the cultivators.

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				Tractor & cultivators will be operated in accordance with manufacturers recommendations	
General injuries resulting from use of tractor mounted grader blade	Potential for serious possibly fatal injuries	yes	Minimise	All persons operating tractor and grader blade must be trained in their safe use by completing a formal induction on the tractor & grader blade by a senior staff member Refer to SOP on tractor & grader blade which details safe operating procedures applicable to the grader blade. Tractor & grader blade will be operated in accordance with manufacturers recommendations	
General injuries resulting from use of trailers - general	Potential for serious possibly fatal injuries	yes	Minimise	Refer to SOP which outlines the safe operating procedures applicable to the trailer	
Burn injury &, noise induced hearing loss Injuries caused by use of CAT diesel frost motors	Burn injury & noise induced hearing loss	yes	Isolate Minimise	Refer to SOP which outlines the safe operating procedures applicable to the CAT diesel motors Use PPE specified in SOP	
General injuries incurred while using ATV & Trailer hand picking	Potential for serious possibly fatal injuries.	yes	Minimise	Refer to SOP which outlines safe work procedures for operating ATV and trailer during hand picking operations. ATV will be operated in accordance with manufacturers recommendations. Refer to SOP outlining safe work practices outdoors	
General injuries resulting from use of vineyard vehicles	Potential for serious possibly fatal injuries	no	Minimise	All vehicles must adhere to the site speed limit of 25 km/hr Extreme care should be exercised travelling on gravel roads. High hazard areas include sharp corner adjacent to block 4 and 11 and corner adjacent to block 17 and 25 All vehicles will be operated according to manufacturers' recommendations	

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General injuries resulting from the use of the tractor mounted trenching unit.	Potential for serious possibly fatal injuries	Yes	Minimise	All persons operating tractor and trencher must be trained in their safe use by completing a formal induction on the tractor & trencher by a senior staff member Refer to SOP on tractor & trencher which details safe operating procedures applicable to the cultivators.
General injuries while completing irrigation R & M	Potential for back/neck injuries Repetitive Strain Injury	no	Minimise	Refer to SOP which outlines safe work procedures for completing Irrigation R & M Refer to SOP outlining safe work practices outdoors
General injuries while completing general trellis R & M	Potential for back/neck injuries Repetitive Strain Injury	no	Minimise	Refer to SOP which outlines safe work procedures for completing trellis R & M Refer to SOP outlining safe work practices outdoors
General & OOS injuries associated with pruning	Potential for back/neck injuries Repetitive Strain Injury Cuts from pruning secateurs	yes	Minimise	Refer to SOP which outlines safe work procedures for pruning Refer to SOP outlining safe work practices outdoors Use PPE specified in SOP
General & OOS Injuries associated with shoot thinning	Potential for back/neck injuries Repetitive Strain Injury	no	Minimise	Refer to SOP which outlines safe work procedures for shoot thinning Refer to SOP outlining safe work practices outdoors Use PPE specified in SOP
General & OOS injuries associated with wire lifting & tucking	Potential for back/neck injuries Repetitive Strain Injury	no	Minimise	Refer to SOP which outlines safe work procedures for wire lifting and tucking Refer to SOP outlining safe work practices outdoors Use PPE specified in SOP
General & OOS injuries associated with manual leaf plucking	Potential for back/neck injuries Repetitive Strain Injury	no	Minimise	Refer to SOP which outlines safe work procedures for hand leaf plucking

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				Refer to SOP outlining safe work practices outdoors Use PPE specified in SOP	
General & OOS injuries associated with crop and colour thinning	Potential for back/neck injuries Repetitive Strain Injury Cuts from snips	no	Minimise	Refer to SOP which outlines safe work procedures for crop and colour thinning Refer to SOP outlining safe work practices outdoors Use PPE specified in SOP	
General & OOS injuries associated with vine de-budding	Potential for back/neck injuries Repetitive Strain Injury	no	Minimise	Refer to SOP which outlines safe work procedures for de-budding Refer to SOP outlining safe work practices outdoors Use PPE specified in SOP	
General & OOS injuries associated with hand picking	Potential for back/neck injuries Repetitive Strain Injury Cuts from snips	no	Minimise	Refer to SOP which outlines safe work procedures for hand picking Refer to SOP outlining safe work practices outdoors Use PPE specified in SOP	
General & OOS injuries associated with hand planting	Potential for back/neck injuries Repetitive Strain Injury	yes	Minimise	Refer to SOP which outlines safe work procedures for hand planting Refer to SOP outlining safe work practices outdoors Use PPE specified in SOP	
General & OOS injuries associated with bird net clipping	Potential for back/neck injuries Repetitive Strain Injury	yes	Minimise	Refer to SOP which outlines safe work procedures for net clipping Refer to SOP outlining safe work practices outdoors Use PPE specified in SOP	
General injuries associated with carrying out technical data collection	Potential for back/neck injuries Eye strain Repetitive Strain Injury	yes	Minimise	Refer to SOP relating to the specific data collection task which outlines safe work procedures Refer to SOP outlining safe work practices outdoors	

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Drowning Injuries - Specific to the Te Muna vineyard - Dam and River	Potential for drowning	yes	Isolate	All personnel advised during site induction to avoid dam area at all times. No swimming allowed. Ropes are located at selected locations around the dam in the event someone accidentally slips in If access is required into the dam area person must always be accompanied by another person If the water meter reading is required the person taking the reading must wear an approved life vest In the event of flooding avoid lower terrace	
Burn Injuries caused by working in close proximity to flammable goods	Serious burn injuries or fatal injuries	yes	Eliminate	Refer to SOP detailing safe work practices in workshop	
General injuries associated with working outdoors	Sun burn, dehydration or exposure.	no	Minimise	Refer to SOP outlining safe work practices outdoors	
General & Fall injuries caused by open drainage trenches between blocks 33 & 35	Risk of strains, sprains or fractures	no	Minimise	Extreme care should be exercised operating ATV's, Tractors and vineyard vehicles in the vicinity of the drainage trench. Slow down when travelling in this area and approach the area slowly to avoid accidental contact with the drain	
Secondary road access between top and bottom terrace from block 27 down to block 36	Risk of serious injuries from driving/sliding over the edge of the track leading to strains, sprains, and broken bones	Yes	Minimise Isolate	Extreme care should be exercised operating ATV's on this track. All other vineyard traffic such as vehicles, tractors, harvesters are restricted to the main access track and should never use this track as a means to access either terrace. Do not use this track after rain due to slipping hazard.	
Burn injuries due to grass fires	Burn injuries	no	Minimise	If a fire is identified in the immediate vicinity of the vineyard report to Vineyard Manager or Supervisor. Do not attempt to	

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				fight the fire unless other people are with you and applicable fire fighting equipment is available.	
Physical injuries due to general fatigue	General physic injuries such as back or muscle strain, cuts and abrasions.	no	Minimise	Ensure regular breaks are taken to reduce fatigue. Lunch and morning tea/afternoon tea breaks must be taken at all times.	
Fall injuries caused by accidental falls from ladders or working at height	Risk of strains, sprains or fractures	no	Isolate Minimise	Ladders should be inspected regularly for faults Refer to SOP on use of step ladders and ladders/working at height	
Heavy lifting injuries - general	Musculoskeletal problems, eg back pain from handling heavy and/or awkward objects.	no	Minimise	Always follow safe lifting practices as outlined in safe lifting SOP	
General & OOS injuries associated with office/administration work	Back/neck injuries Eye strain Repetitive Strain Injury	no	Minimise	Refer to SOP outlining safe work practices undertaking office & administration work	
General injuries associated with general workshop duties	Musculoskeletal problems, eg back pain from handling heavy and/or awkward objects.	yes	Isolate Minimise	Refer to SOP which outlines the safe operating procedures applicable to performing general workshop duties	
Working Alone	Possibility for an injury to occur, and then not having anyone in the vicinity to help.	no	Isolate Minimise	Refer to the working alone policy on the Craggy Range intranet. When working alone on the vineyard ensure that you always carry a 2-way radio.	

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