

RISK ANALYSIS AND MANAGEMENT SYSTEM

FOR: CAVING

LAST UPDATED: 8/02/2017 BWR operations supervisor

ANALYSIS

DESCRIPTION

UNDESIRE EVENTS	OUTSIDE-CAVE				
	Accident on way to cave				Leaving equipment behind
	Late start to activity				
	Stolen property				
	IN CAVE				
	Severe Cold or Hypothermia				Light failure
	Drowning				Injury from equipment failure
	Psychological distress				Caught in flood
	Claustrophobia				Overdue
	Damage to equipment				Trapped in squeeze
	Damage to environment				Injury from tripping or falling
	Party member lost or whole of party lost				Medical emergency/allergic reaction
	Injury from falling person or object				Party fatigue
Stuck on ladder/abseil					

CAUSAL FACTOR	PEOPLE		EQUIPMENT		ENVIRONMENT	
	OUTSIDE-CAVE		OUTSIDE-CAVE		OUTSIDE-CAVE	
	Unskilled drivers		Poor vehicle maintenance		Busy rural roads	
	Overseas drivers		Incorrect equipment for cave		Multiple hazards on road	
	Lack of adequate planing		No equipment check sheet		Wet or hazardous conditions	
	Poor cave match for group				on road	
	IN CAVE		IN CAVE		IN CAVE	
	Unfit people in the group		Unsuitable group equipment		Cold	
	Peer pressure		Lack of food/hot drinks		Wet	
	Poor communication		Poorly maintained equipment		Slippery surfaces	
	Pre-existing medical conditions		Lack of emergency equipment		Loose rocks	
	Poor understanding of activity				Confined spaces	
	Poor risk management practise				Heavy Rainfall	
	Untrained staff				Darkness	
	Lack of site knowledge				Deep Water	

RISK MANAGEMENT STRATEGIES	NORMAL OPERATIONS					
	OUTSIDE-CAVE		OUTSIDE-CAVE		OUTSIDE-CAVE	
	Guides to have correct license for vehicle they are using		Ensure vehicle maintenance is done and vehicle is checked before use		Drive for the conditions at the time, slow down in the wet	
	Drive defensively		Pack correct equipment for cave (see appropriate folder)		Check weather before using cave	
	Plan appropriate trip for group		Ensure First Aid Kit in vehicle			
	Obtain group information before hand		Equipment cleaned and serviced between trips		IN CAVE	
	IN CAVE		Equipment logged after trips		Choose safest route	
	Experienced staff with site training		IN CAVE		Protect areas of high risk from damage	
	Analysis of accident/incidents for staff training and site management		Carry First Aid Kit at all times		Protect clients if exposed to any areas of high risk	
	Disclose activity risk		Clients issued with any specialised clothing or equipment required for cave		Check water gauges	
	Active management of group safety during activity		Checks of rigging or other equipment during use			
	EMERGENCY					
			First aid kit to be carried on all trips		Communication with base either via cell phone or land line	
			Hot drink and food to be available on all trips			

RELEVANT INDUSTRY	Land Transport Safety Authority vehicle licensing regulations				
	Land Transport Safety Authority driver regulations				
	Occupational Safety and Health Act				
	NZ Outdoor Instructors Association cave svllabus				