NGĀI TAHU Tourism

RISK REGISTER RISK CONTROLS AND ASSESSMENT

- Step 1: Identify the Risks as Risk Statements
- Step 2: Describe the existing Risk Mitigation Controls
- Step 3: Evaluate the Risk and the Risk Controls using the table below
- Step 4: Do we accept the Risk? Is the current Risk Control as effective as it could be?
- Step 5: If the answer is no to either question then complete the "Further Action Column"
- Step 6: Decide who is responsible for the Further Action.
- Step 7: Report on this activity in the monthly Business/Region Review and review the Risk Register each three months.

	Risk Mitigation Team for Rair	nbow Springs & Kiwi E	ncounter: A	April 2018				
David Hennigan	Steve Tregilgas	Mark Paters	on		Em	Emma Bean		
RISK SCORING CHART			Impact					
Catastrophic Multiple deaths, operational disaster, Profit impact >\$2M in any one year, \$	and/or 7.0M asset impact which would prove term	inal for the company	100	50	100	300	600	1000
Major Death/extensive injuries, loss of oper Profit impact \$500K to \$2M in any one			40	20	40	120	240	400
Moderate Any serious harm or injury (but not re Profit impact \$100K - \$500K, Asset im	esulting in permanent disability), and/or apact \$250K to \$1.5M		15	7.5	15	45	90	150
Minor First aid treatment, some asset or pro Profit impact \$25K to \$100K in any on	operty damage, and/or ne year, assets impact from 75K to \$250K		7	3.5	7	21	42	70
Insignificant No injuries and/or Up to \$25K profit impact, \$75K asset i	impact		1	0.5	1	3	6	10
			Probability	0.5 Very unlikely 20 Years	1 Unlikely 10 Years	3 Moderate likely 5 Years	6 Very likely Yearly	10 Almost certain Monthly

Identified Risks		/sis & lation	Existing controls de evaluated		&	Further Actions
Risk Description List the EVENT and the EFFECT(s) as a Risk Statements(s), "There is a risk that <insert event=""> will <insert IMPACT> in/to/on/for/of <insert VULNERABLE ENTITY>.</insert </insert </insert>	New Rating		What we do now to manage this risk	Risk Accepted & Current Control effective?		What we will do to reduce/manage/control this riskAssigned ginedWhat Opportunities exist for improvementsTo
New to market competitor.	7.5	terr spe inte	ntinue to advance the park in ns of presentation, offering, ecies, guided experience and eractive opportunities for our tors	Yes	•	Have a voice in the business MM, BM, SM community and through the local chamber of commerce and RTO relationships keep abreast of developments proposed or otherwise in the community.
Significant changes to the Amusement Devices Act leading to a change in facilities, operation or design, safety or otherwise on the Big Splash Ride	15	safe des	actively asses ride design and ety features annually with ride signers and manufacturers ether with third party engineer.	Yes	•	Continue open communications with independent engineers with a view to understanding any change proposals within MBIE and Worksafe. Ascertain membership to and attend annual conference of the AALARA.
Increases pollutants/nitrates in ponds, streams and lakes leaching into streams feeding lakes	1	taki stre Spl kee dov	ter catchment agreement ing water from the Waiwhero eam to flush through the Big ash and associated ponds to ep nitrate and faecal counts vn. gular testing of water to indicate v potential pollutants.	Yes	•	Systematic washing of all pools to ensure any nitrate build up is minimal and within accepted release levels.
Severe Storm Damage e.g. Redwoods down	45	ArbPro	orist reports every three years. cedures in place to close park and after severe weather	Yes	•	Utilise the anemometer measuring wind BM/OPS speeds and a visual of the tree tops as per SOP to assess and manage areas of park closure as required
There is risk of an earthquake affecting the park. This could result in loss of spring, demolition of building, toppling of	90	• Reo stat	gular emergency evacuation for ff	Yes	•	Porta loos could be sourced. After any earthquake, underwater viewer would need to be thoroughly inspected.

redwoods, damage to sewerage lines and water supply, loss of power, damage to aviaries resulting in loss of birds, compromise of underwater viewer. There is risk of Asian Bird Flu or World pandemic	15	 Rainbow Springs has procedures in place that cover all operations. Borders would very likely close. 	Yes	 Earth quake notices to be placed on H&S noticeboard. DoC will dictate procedures with all birds Separate bird flu pandemic plan 	
Sabotage	1	 Staff vigilance On site security staff (VR) Security alarms in place 	Yes	 completed Monitor integrity of security fence surrounding perimeter Regular staff training 	
Power outage	3	 Generator would be placed in Kiwi Encounter Husbandry. Procedures to evacuate and close retail areas. Have torches available for KE static and nocturnal house Automatic backup server batteries in place 	Yes	 Emergency back-up lights (two hour) for the night trading periods Hire generator Post refurbishment the hatchery facility will have solar and a Tesla battery to sustain incubation in the event of power failure. 	Senior Executive policy change to be reviewed
Fire: • Retail • Admin • Cafe • Park • KE facility	40	 Rainbow Springs buildings are a no smoking area. Fire alarms are linked to security monitoring company. Greater risk at night when fewer personnel are present. Fire hoses located within the park. Regular irrigation carried out in park. Fire hoses strategically placed. Fire hydrants available outside Café and in Fairy Springs Rd area Staff aware to keep area free of fronds, boxes etc. Fire alarms in place Check existing alarms Wormald holds alarm testing monthly 	Yes	 Fire dept. can draw from Rainbow Pool. On site pump available. Static fire hoses to be placed in various areas in park, in times of high risk. Irrigation installed in outside runs Monitor housekeeping practices Review insurance Continue to review safety and security. Remove all rubbish from surrounds Relocate flammable material Annual fire & extinguisher training conducted 	

Fire threat from Mount Ngongotaha	15	 Fire Extinguishers are located throughout the buildings, checked 6 monthly. Evacuation procedures held six monthly – five separate fire evac plans registered with Fire Service Hill boundary is sprayed 6 monthly as a fire break. Park would be closed. All areas would be thoroughly watered down 	Yes	
Terrorism Local World Terrorism resulting in loss of visitors to NZ	15	Monitor visitor arrivals and forecasts	Yes	To be reviewed regularly
Significant volatility within the Global Financial Environment causing significant negative impact on key market channels.	40	 Monitor visitor arrivals and forecasts and maintain close contact with key wholesale and inbound suppliers, TNZ and other Govt agencies. 	Yes	 Manage downturn through appropriate cost control mechanisms. Forge and build new domestic supply lines.
Zoonosis outbreak affecting staff	7	Maintain protocols for animal welfare and hygiene standards	Yes	 Monitor protocols with DOC Internal protocols & staff training
Disease resulting in loss of all kiwi, or quarantine of facility	45	 Rainbow Springs has procedures in place, which will cover all operations. Borders would very likely close. 	Yes	Consider placing the incubating eggs in two separate incubators
Loss of birds due to poor enclosure maintenance	3	Daily checks of aviaries		Enclosure repairs to be checked by RS personnel
Disease resulting in loss of animals and or birds in park	15	 Maintain protocols for animal welfare 	Yes	Monitor protocols with DOC
Loss of licences (DoC) for infraction of regulations by RS or KE	15	 Maintain licenses and achieve at least minimum protocols for animal welfare 	Yes	Monitor protocols with DOC
Loss of species through ZAA directive or animals rights campaign	7.5	 Maintain membership to ZAA and through positions on committees and boards keep abreast of sentiments and direction in the animal husbandry space. 	Yes	Monitor advisory directives and accepted husbandry directives from ZAA and other worldwide governing bodies through current affairs.
Negative Publicity	21	 BM & MKT M to manage media, no other staff to comment 	Yes	Monitor Social Media sites and newspapers for negative word of mouth: respond promptly

Drowning in Springs waterways. Risk to children is greater	20	 Signage present, open waterways. Children must be accompanied by an adult Greater risk at night when fewer personnel are present. 	Yes	 Staff need to be advised that comment may only be made by BM and Mkt M Need sufficient staff trained in CPR. Consider disclaimer on brochure in the future. Consider reviewing the upper fence at underwater viewer. Cameras in situ on Big Splash ride Identified open water edge protection
Major work-related injury to employee	15	 Training programmes. H & S plans and procedures. ACC programmes for early return to work. ACC certification. Full training for all equipment provided and signed off. 	Yes	 and landscaping underway April 2018. Monitor, promote safety awareness, reinforce safety culture Hazard registers updated OSH meetings conducted monthly Mock crisis conducted annually OSH training conducted annually
Personal attack on staff on late shift	15	 Security monitoring Night Manager now in place Security night lights. VR Security on site 	Yes	 Staff 'offender' training Monitor and review
Risk to staff or customers through incorrect storage of chemicals or fuel on site	7	 Safety notices. certificate. Safety Data Sheets available. Substances. No smoking area Ongoing training of staff using chemicals. 	Yes	Ongoing key accountability for Maintenance & Compliance Manager and KE Manager
Moderate to serious injury to coach passengers, pedestrians or employees	15	 Speed limit, speed bumps, stop signs and drive slowly signs on site. Public liability insurance. Staff using PPE when working in parking areas Installation of pedestrian crossings. 	Yes	 Advise coach drivers and supplier van drivers of limits. Have campervans park in bus area
Injury to visitors on site through negligence	15	 Health and Safety Committee walkabout inspections. Public liability insurance. H&S audits. 	.Yes	 Ongoing training and vigilance in HSE Gemba walks Hazard register
Significant misappropriation of funds or goods	7	 Internal control reviews. Regular security pin and safe combination changes 	Yes	Ongoing monitoring and audit.

Resignations of key personnel and or IP	21	 Staff retention review. Personal Development Plans. Career opportunities. 	Yes	• • •	Job satisfaction emphasis. Work/life balance. Focus on staff retention, Loss of company expertise. Succession planning and management in wildlife and maintenance through organisational structure.	BM
Big Splash Operation Malfunction of ride or animatronic components causing significant periods of 'down –time'.	21	 Establish clear guidelines for daily checks and routine maintenance. Preventative maintenance programme in operation, reviewed annually 	Yes	•	Employ regular service checks by key suppliers to ensure key componentry is maintained at the highest possible standard. Implementation of a Reliability Centred Maintenance Programme and Critical Parts register.	
Big Splash Operation Risk of injury to guests through improper use while on ride	45	 Ensure signage is in place which clearly identifies the safety requirements for the ride with Ride Operators ensuring all people are safely in position before each boat departs. 	Yes	•	Safety messages replaced in boats each year (as required)	
Big Splash Operation Risk of Mechanical Maintenance costs becoming too cost prohibitive to continue operation of ride	45	 Gain adequate understanding of costs of maintenance Reduce operational times (reduce ride work hours) 	Yes	•	Alternate plan/use for the ride (if costs become too prohibitive)	
Big Splash Operation Risk of injury to guest/s due to malfunction of animatronic component.	15	 Ensure fail safe mechanisms are in place and the maintenance schedules clearly outlined by the suppliers. 	Yes	•	Maintain a Malfunction Register to document every occurrence where a component has failed to operate as designed.	
Big Splash Operation Risk of serious injury or fatality due to the malfunction of a ride component.	50	 Establish clear guidelines for daily checks and routine maintenance. Establish a mitigation programme to address each issue. Establish position of full time Maintenance Manager to plan all R&M work. 	Yes	•	Ensure all manufacturer's requirements for the safe operation are known. Ensure that the manufacturer has supplied a maintenance manual and establish a process to confirm that all maintenance is carried out as specified at the required times and to the required standards. Employ regular service checks by key suppliers to ensure key componentry is maintained at the highest possible standard.	

	0.5		Mar		Implementation of a Reliability Centred Maintenance Programme and Critical Parts register.
Free Flight Bird Show. Risk of Campylobacter to Trainers and Handlers through general exposure (faeces).	0.5	 Risk has been assessed by a panel including Wildlife Manager and RS Vet on 21 Sept 2011 as being Not a Risk 	Yes		Keep dust down to ensure there are no dry aviaries.
Free Flight Bird Show. Risk of Salmonella to Trainers and Handlers general exposure (faeces).	0.5	 Risk has been assessed by a panel including Wildlife Manager and RS Vet on 21 Sept 2011 as being a Negligible Risk 	Yes	•	Employ basic hygiene processes
Free Flight Bird Show. Risk of Chlamydia to Trainers and Handlers through general exposure (airborne).	1	 Risk has been assessed by a panel including Wildlife Manager and RS Vet on 21 Sept 2011 as being a Nominal Risk – airborne spread. 	Yes	i	Employ basic animal husbandry skills to identify animals which are sick to enable personal protective measures to be employed.
Free Flight Bird Show. Risk of infection to Trainers and Handlers through trauma (bird bites)	1	 Risk has been assessed by a panel including Wildlife Manager and RS Vet on 21 Sept 2011 as being Low 	Yes	:	Apply basic hygiene processes – first- aid measures or if deemed appropriate seek medical attention due to apparent inflammation etc.
Free Flight Bird Show Risk of bird landing on a member of public and scratching or biting them	42	• Bird Show staff to immediately focus on the individual, assess extent of injury, reassure them and apply basic first-aid measures.	Yes		Provide visitor with some background information on what risk they may have been exposed to and advise them to seek further medical assistance if any symptoms present within 48 hours.
Free Flight bird Show Risk of Bird defecating on visitor/s.	3	 Bird Show staff to immediately focus on the individual, assess extent of impact, provide cloths and disinfectant to remove the faeces, reassure them. 	Yes		
Personnel issues arising from employment procedures, training, discrimination, harassment.	3	 Induction and training programmes refinement Training to be put in place to up skill, coach and monitor Ongoing training managers in Human Resources and general management. Ongoing advice and support from HR manager. 	Yes		Ensure HR Protocols are understood and employed by managers OCP available to staff