

Kazile Island Lodge EMP Monitoring submitted by Jo Tagg in March 2019
Planning Phase

Objective	Management Measure	Monitoring Action & Method	Responsibility	Findings
Environmental Clearance	Apply for environmental clearance	File clearance	Operator	Yes, EC was obtained prior to construction.
Adhering to EMP requirements	EMP should be shared and discussed prior to layout of building.	Site plan to ensure that layout of buildings reduces visual impact as per the Scoping Report	Operator	Yes, visual impact has been reduced to within acceptable levels.
	Organise an awareness meeting with all building staff to ensure awareness and the need for compliance with EMP	Complete EMP awareness training	Contractor	No indications to suggest that there was non-compliance during construction.
Socio-economic benefits	Develop contract monitoring tool to manage & monitor JV contract	Hold inception meeting with conservancy	JV support staff. Need to share with MET	JV agreement approved by MET.
Conserve existing vegetation	Layout & design should incorporate the existing trees& shrubs	Layout & design complies with proposed mitigation. Large specimen trees must not be removed	Contractor	This was done.
Minimise land degradation & erosion	Design landing area for boats that minimises impact of waves caused by boats	Boat drivers need to receive training to ensure that they understand the impacts of wakes on exposed banks as well the approaches to the island to reduce their possible impact.	Operator	Yes, landing area has a walkway that is aligned with changing river levels.
To preserve scenic quality & maintain "sense of place"	Site tents as far as possible to "nestle" in existing vegetation	Compliance with plans	Contractor	Sense of place is maintained.
	Place service areas out of	Compliance with site plan	Contractor	Services well concealed.

	sight of guest areas and position installations/services using the existing vegetation			
	Materials colour should blend in with the site	Discussions between operator and suppliers	Contractor	Complied
Minimise impact on energy resources	Design energy systems which use, as far as possible, renewable energy	Cost benefit analysis of most appropriate systems BUT which excludes the use of wood for heating (gas entirely acceptable)	Operator Electrician	Gas used for heating water, generator used for other power requirements. Solar energy a challenge as area dominated by riparian forest.
Minimise impact on water resources	Use water-saving devices in toilets and low-flow shower heads	Specified in details	Contractor	Compliance
	Specify water meters to monitor water consumption	Specified in details	Contractor	Not fitted - lodge owners shall fit
	Place sewerage systems to ensure such that potential for contamination of ground water is minimised	Septic tanks to be positioned out of floodplain waterlogged zone and French drains located in well-drained soils.	Contractor	Done
	Grey waste water disposal system to be built as should not be piped to septic tanks	French drains to be positioned in well-drained soil. MET (or agent to approve lay-out)	MET (or agent to approve lay-out)	Done
	Fat traps to be installed at scullery/kitchen	Ensure that specified in details	Operator	Not fitted - lodge owners have undertaken to have fitted.

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Operational Phase

Objective	Management Measure	Monitoring Action & Method	Responsibility	Findings
To ensure that EMP and the Scoping Report understood by management & staff	EMP & Scoping Report incorporated into contract of Lodge Manager	Contract which aligns EMP & Scoping Report	Operator	Recently appointed manager aware of EMP.
	Staff receive training and understand the implications and reasons for the EMP	Training held & roles and responsibilities of various staff members clearly spelt out and included in job descriptions	Lodge Manager	1. This is on-going and lodge management couple are incorporating training into everyday operations of staff. 2. Night watchman removes solid waste everyday and this is sent to site outside of the park. 3. Senior staff member responsible for maintenance and there is close monitoring of any area of operations that may have an environmental impact - solid waste, oil spillages, septic tanks etc.
To ensure that the agreed socio-economic benefits of the JV contract are achieved	Implement contract monitoring tool	Ensure that reviewed and acted upon at JMC meetings between operator and conservancy	Operator Lodge Manager Conservancy MET	1. African Monarch attends JV meetings with Mashi Conservancy. 2. Benefits paid as per contract. 3. 19 local people employed out of a staff compliment of 23.
Minimise impacts on vegetation	Existing vegetation in lodge area is not removed except where it is a hindrance to lodge operations	Conduct regular inspections and keep staff informed	Lodge Manager	No evidence of removal of vegetation beyond what was absolutely necessary for lodge operations.
	Introduced ornamental plants must only be indigenous to the area and PRIOR to purchase and planting the species must be approved by MET	Approval from MET	Lodge Manager	No ornamental plants introduced. Management couple are both committed to sound management and were active members of Botanical Society while living in Windhoek.

	Staff do not fell trees or damage vegetation	Inform staff of policy as well as the repercussions should there be non-compliance. Include in code of conduct for staff	Lodge Manager	No trees felled. Wood purchased from community forest.
Minimise impact on wildlife	Ensure that guests are aware of the potential danger of wild animals entering lodge	Guides to be trained in responding to elephant, hippo and predators as well as handling of harmful snakes (appropriate handling equipment should be available at camp)	Lodge Manager	1. Guides have received training in elephant behaviour. 2. Plans in place to provide training on handling dangerous snakes.
	Staff do not have an impact on wildlife	Staff to be aware of the legal implications and company policy in catching, trapping or killing wild animals	Operator Lodge Manager	Staff are aware of the implications of transgressing park regulations.
Capitalise on presence of lodge for biodiversity management	Complete wildlife monitoring forms on all game drives as requested by MET	Submit summary to conservancy once per month	Lodge Manager with assistance from MET/NGOs	Summaries of wildlife sightings provided.
	Provide reports on species of special interest as required	Share records with MET (or their appointed partners) as required	Lodge Manager Guides	Lodge provides wildlife data to MET for approved research projects.
	Maintain integrity of the area	Report any suspicious behaviour to MET and conservancy	Lodge Manager Guides	Lodge owners and managers are aware of their responsibility of reporting suspicious behaviour.
Minimise land degradation & erosion	Rainfall run-off at lodge site does not cause undue erosion	Regular inspections and if required remedial contouring or drainage	Lodge Manager	Nothing noted.
	Minimise impacts of boat activities on river banks	Training provided to boat guides on the impacts of boat wakes on exposed river banks and methods to reduce impacts	Lodge Manager Guides	There is on-going guidance for river guides.
To preserve	Mitigation measures	Regular inspections of	Lodge Manager	Well within acceptable standards.

scenic quality & “sense of place”	implemented during construction phase are maintained	screens etc. hiding services & installations are functional and if required repair		
Minimise impact on water resources	Staff are aware of the need to not use water wastefully	Undertake staff training	Lodge Manager	Water meter not yet installed. Lodge manager has undertaken to fit one.
	Water usage & consumption is within the “best practice guidelines”	Monitor water usage on a monthly basis and calculate usage per guest and for staff members and compare against targets	Lodge Manager	Will be monitored once meter installed.
	There is no leakage from water systems	Undertake regular inspections of all water pipes	Lodge Manager	One minor leak detected during inspection but maintenance manager was busy repairing.
Minimise soil & water pollution	Spillages of potentially harmful substances must be cleared immediately and disposed of at an appropriate site	Inspection and follow-up clean-ups if required. Spillages and the resultant clean-ups must be documented and supported by photographs and reported at JMC meetings	Lodge Manager	1. Old oils removed from site. 2. Fuel stored in lock up room with cement floor.
	Functional septic tanks	Undertake regular inspections and, if required, de-sludge	Lodge Manager	Regular inspections undertaken. No odours detected.
	Functional fat traps	Inspect & clean on a regular basis and store matter in sealed containers	Lodge Manager	Not fitted - lodge manager has committed to fitting and shall provide proof that this has been done.
	Functional soak-aways	Inspect on a regular basis	Lodge Manager	Soak-aways functional
	Functional and leak-free waste water pipes	Inspect on a regular basis on repair if required	Lodge Manager	Regular inspections undertaken.
	Use of environment-friendly soaps & detergents	Ensure that procurement specifies this need	Lodge Manager	Yes
	No contamination of soil or water by fuels or oil	Ensure that all fuels stored and managed to reduce risk of spillages	Lodge Manager	Fuels securely stored.

