

Priority Actions for Spaans Lagoen

November 2017

A Vision for Spaans Lagoen

The biodiversity, landscape and cultural heritage of Spaans Lagoen will be maintained, restored, enhanced and managed now and in the future for the benefit of the communities of Aruba and for the broader international environment. Spaans Lagoen will provide a regional and national example for the conservation, management and restoration of an internationally important wetland area.





Priority Actions: A Short Term Action Plan for Spaans Lagoen

Critical, short-term priority issues for Spaans Lagoen

This short term action plan is based on the comprehensive management plan for Spaans Lagoen that was developed as a two-day participative management planning process by Dr. Lawrence Jones-Walters of Wageningen Environmental Research (Alterra), staff of the Arikok National Park and invited stakeholders held at the University of Aruba in April 2017. It is a prioritised list of actions that need to be completed in the short term (6-24 months) and is based on a combination of Park, stakeholder and expert views, experience and knowledge of the key issues in and around the Spaans Lagoen and their potential solutions. Spaans Lagoen is a Ramsar site Ramsar Site and became an extension to the Park in February 2017. The delivery of these actions is a critical element in the future protection, management and restoration of the site as one of the key elements within the natural heritage of Aruba.

1. Habitat and species management and restoration

Issue	Impact	Action	When	Who
Mangrove	The impact of mangrove management should	1) The planting of mangroves within	Towards the end of	Appropriate NGO
management	be either positive for ecosystem and its	the restored area by local	the next dry season	in Association
and restoration	associated wildlife. The creation of new	schoolchildren/ community groups.	when safe access to	with Arikok
	watercourses and/or areas of open water will		the site is possible for	National Park
	provide habitat diversity, increased potential		community groups	
	for the movement of fish and other wildlife	2) The ongoing maintenance of the	Following the planting	Arikok National
	through the site.	restored area, e.g. to replace any	exercise.	Park
		failed mangrove shoots, to take any		
		remedial action that might be required		
		as a result of unexpected events (e.g.		
		extreme weather, etc)		

2. Specific/Alien invasive species management

Issue	Impact	Action	When	Who
Boa	Decline, loss and/or	1) Regular removal and destruction	Weekly during wet season (when	Snake expert on contract
Constrictor	eradication of native	of snakes from the lagoon by experts.	snakes are most active); regular	to Arikok National Park
	species high cultural and		visits at other times to assess and	
	nature conservation value		remove snakes if necessary.	
		2) Restart/ give fresh momentum to	Combine with stakeholder meetings	Park manager and board
		the wider Government initiative/	at government level (see	chairman
		campaign for the removal and	communication actions)	



		destruction of snakes from Aruba as a whole.		
Mozambique	Decline, loss and/or	1) Trial of electrofishing to remove	As soon as possible. Then link to	Directie Natuur en
tilapia	eradication of native	adults from the population (use	monitoring effort	Milieu in association
	species high commercial,	opportunity to monitor lion fish and		with Arikok National
	and nature conservation	remove if necessary)		Park
	value	2) Introduce 'targeted fishing' event	Within six months. Link to	Appropriate NGO and
		for fishermen and other local	programme of community events	Fishing groups in
		community members to attempt to	(see communication actions)	collaboration with Arikok
		fish out as many tilapia as possible.		National Park

3. Public access and recreation (and physical infrastructure)

Issue	Impact	Action	When	Who
Casual	Disturbance, in particular to feeding,	Provide signage to inform people of the interest of	As soon	Arikok National Park
recreation	roosting and breeding birds.	the site at the key entrance points and advise them of	as	
		the appropriate behaviour (link to communications	possible	
		actions).		
Off-roading	Disturbance to birds and direct damage	1) The signage referred to above should also contain	As soon	Arikok National Park
	to, for example, the breeding burrows	messages for potential off-roaders. Signage should	as	
	of the Aruban Burrowing Owl; impacts	also be placed to be visible from obvious access	possible	
	on vegetation including the potential to	points to the site (together with the boulders).		
	damage the regenerating mangrove.	2) Boulders should be placed in all sensitive areas in	As soon	D0W
		order to discourage off-roaders from entering the	as	
		site. Any boulders that have been removed should be	possible	
		replaced.		
		3) Discuss with local police the potential, through	In next six	Arikok National Park
		policing activities by Park and other official	months	and Aruban police
		authorities, the possibility of catching off roaders in		force
		the act. Once apprehended perforce prosecution and		
		ensure media coverage (link to general issues of legal		
		implementation)		



Paddle	Disturbance, in particular to feeding,	Direct contact with the tour operators and hotels in	In the	Arikok National Park
boarding and	roosting and breeding birds.	order to discuss best practice with them.	next 18	in cooperation with
other organised			months	hotels and tour
recreation				operators
Fishing	Disturbance to feeding, roosting and	Involvement of the stakeholders (fishermen) in joint	In the	Arikok National Park
	breeding birds. Disruption of breeding	problem-solving with a view to managing the current	next 18	in cooperation with
	and other activities by fish and	activities to reduce the impact to a minimum (link to	months	fishing groups/
	(potentially) marine reptiles, e.g.	communications actions).		individual fishermen
	turtles.			

4. Legal protection and enforcement

Issue	Impact	Action	When	Who
General enforcement/	If activities are not regulated there is a	A programme of education and training for	In the	Arikok National Park
implementation of	danger of direct and indirect damage to	key government officials, stakeholders and	next 18	in collaboration with
nature protection	the nature and other cultural heritage	the island police about the content of the	months	government
regulations	within the site.	regulations would raise their profile as		departments and
		instruments for use and implementation.		Aruban police force
		(Note communication actions included in		
		the relevant section)		
New buildings	Impacts include direct damage and	Agree protocol (and link to training above)	In the	Arikok National Park
	removal of habitat, disturbance to and	for consultation on planning applications	next 18	in cooperation with
	destruction of species, impeding of water	with the Park in order that the planning	months	DOW and other
	courses and the construction of associated	process avoid licensing any new		relevant government
	road and other infrastructure in order to	construction. Any illegal construction		departments
	service the new buildings/ properties.	should be penalised and removed.		
Clearance for	Impacts therefore include direct damage	Agree protocol (and link to training above)	In the	Arikok National Park
agricultural use	and removal of habitat, disturbance to and	so that any applications for changing land	next 18	in cooperation with
	destruction of species, impeding of and	use should be the subject of consultation	months	government
	changes to water courses that to gather	with the relevant Ministry department and		departments
	can create the potential for increased	the National Park authority. Unlicensed		
	erosion and siltation within the lagoon	agricultural clearance should be reversed.		
	habitats themselves.			



5. Research and monitoring

Issue	Impact	Action	When	Who
The availability of	Improved 1) selection and	1) A desk study to review and collate relevant	In the	Arikok National Park in
basic data and	prioritisation of management and	existing published and other information and to	next 18	cooperation with
information relating	other actions and 2) more effective	include a gap analysis in order to identify specific	months	Directie Natuur en
to the natural	and accurate decision-making in	areas for future research, data collection and		Milieu research
processes, species	relation to the delivery and	information provision. [Note: should include a		institutes
and habitats	implementation of policy and practical	review of the potential impacts of environmental		
	work on site	change on the site focusing specifically on the		
		impacts of climate change - this part could be a		
		separate study depending on resources]		
		2) Based on 1 above, the development of a	In the	Arikok National Park in
		research agenda to identify and prioritise	next 18	cooperation with
		specific areas within which research is required	months	Directie Natuur en
		in order to support better decision-making in		Milieu research
		relation to the protection and management of		institutes/ local and
		specific species and habitats, the control of the		international experts
		identified alien invasive species and the		
		management of activities such as fishing and		
		tourist-based recreation.		
Monitoring	Improved 1) selection and	1) Monitoring of the recently completed	As soon	Arikok National Park in
	prioritisation of future management	restoration work; specifically use of the area by	as	cooperation with
	and other actions and 2) decision-	birds and fish and the appearance of	possible	Directie Natuur en
	making in relation to maintaining or	regenerating mangrove.		Milieu research
	changing the delivery and	2) Monitoring (leading to specific controlling		institutes/ local and
	implementation of policy and practical	actions) of alien invasive species: boa		international experts
	work on site and 3) funding potential	constrictor, and lion fish.		
		3) Bird monitoring; breeding, migrating and	In the	
		feeding bird species and numbers	next 24	
		4) Fish monitoring; presence-absence recording,	months	
		breeding/ spawning		



6. Communication

Issue	Impact	Action	When	Who
Stakeholder	The current impacts are direct and indirect and	Develop a programme to identify and	Next 6 months	Arikok National
involvement	in both cases result in the loss and/or	engage the key stakeholders in one on	(preparation in	Park with advice/
	deterioration of the wildlife interest of the site.	one and small-group/ focus group	coming 6 months,	assistance of key
		meetings with the specific purpose of	begin process in 6	experts
		providing them with:	months' time)	
		 increased awareness of the issues 		
		around the site		
		an opportunity to input their views		
		and opinions on the present and		
		future protection and management		
		of the site		
		• a common, agreed vision for the site,		
		ownership of the solutions and a		
		commitment to being part of their		
		delivery.		
Awareness	The impact of a lack of awareness are largely	1) Leaflets targeted specifically at	Next 6 months	Arikok National
raising	the same as those described above. With an	individual stakeholders/ stakeholder		Park and Aruba
	increased understanding and awareness of the	groups to raise their awareness of the		Tourism Authority
	issues and other factors surrounding the site,	issues and opportunities for them in		with advice/
	people are likely to change their behaviour in	becoming more engaged in the future		assistance of key
	order to reduce the impact of their activities.	protection and management of the site.		experts
	They continue to carry out those activities they	Specific, priority target groups could		
	can no longer claim that they were unaware	include:		
	making regulation and/or prosecution a more	Tour operators/ Hotels		
	straightforward process.	Government officials		
		Fishermen		
		Property owners within and just		
		outside the site boundaries		
		2) General leaflets explaining the interest	As soon as possible	Arikok National
		and importance of the site, giving advice		Park and Aruba
		on how to avoid damaging the site and		Tourism Authority



how to get the most out of a visit in		with advice/
terms of exploring the cultural and		assistance of key
natural interest.		experts
4) Organisation of a range of events on	As soon as possible	Arikok National
the site that could include:	(mangrove	Park in
 Community involvement in 	planting)	cooperation with
mangrove planting/ restoration		local NGOs
 Guided tours to see the cultural and 		
natural interest, targeted at the local		
community (but also worth		
considering for government officials		
and politicians, hotel and tour		
operators, fishermen, etc)		

7. Resources

Issue	Impact	Action	When	Who
Acquisition of	Insufficient resources will result in	1) The delivery of a prioritised, short term action	This plan –	Arikok National Park in
sufficient and	less, limited or no action for the	plan that can be the basis of a bidding document	action	cooperation with
sustainable	present and future protection and	for financial and other resources (see section 5,	completed	research institutes/
resources	management of the site (which may	also available as a separate document).		experts
	potentially threaten the international	2) The identification of key government	Beginning	Arikok National Park
	and national status).	stakeholders (via the communication actions listed	asap	
		above) in relation to engaging them within the		
		process and convincing them of the value for		
		providing funding for specific actions identified		
		within the short term action plan.		
		3) Together with key NGO/international partners	Beginning	Arikok National Park in
		find potential sources of external funding in order	asap	collaboration/
		to deliver specific projects for the protection and		partnership with
		management of the site, the engagement of local		research institutes/
		communities and stakeholders, etc.		experts