ECOFINDER KENYA PROGRESS REPORT FOR YALA WETLAND 2007-2009

Project Title:

Community Based Biodiversity Monitoring and Conservation for Yala Wetland, Kenya

Submitted to:



The Rufford Small Grants Foundation 5th Floor Babmaes House 2 Babmaes Street London SW1Y 6HD Fax: +44 (0)20 7925 2583 Email: jane@rufford.org.

Compiled and Prepared by: Leonard Omondi Akwany P.O Box 179-40123 Kisumu, Kenya Tel: + 254 726 701042 E-mail: <u>ecofinder@yahoo.com</u>

Grant Recipient Details	
Your name	Leonard Omondi Akwany, Ecofinder Kenya
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INTRODUCTION

This progress report is the product of "Community Based Biodiversity Monitoring and Conservation for Yala Wetland, Kenya" project generously funded by Rufford Small Grants Foundation and implemented by Ecofinder Kenya which is a membership, grassroots and volunteers' based organization working towards the conservation of Lake Victoria wetlands through local partnerships.

Yala wetland complex, which is the largest papyrus wetland in Kenya, is known for its specialists and endemic birds described as **birds paradise**, rare semi aquatic antelope, the Sitatunga (*Tragelaphus spekei*), Vervet monkey (*Cercopithecus aethiopicus*), Hippopotamus (*Hippopotamus amphibius*), African python (*Python sebae*), Spotted-necked Otter (*Lutra maculicollis*) and satellite lakes; Kanyaboli, Sare and Namboyo, serving as repository or living museum of endemic fish species that long disappeared in Lake Victoria itself such as non-cichlids, cichlids and threatened and endemic *Oreochromis esculentus and Oreochromis variabilis*. The papyrus specialists' birds include;

- *i.* Papyrus Yellow Warbler-Chloroptera gracilinostris
- *ii.* Papyrus Gonolek-Laniarius mufumbiri
- *iii.* White Winged Warbler-Bradypteus carpalis
- iv. Papyrus Canary- Serinus koliensis
- v. Caruthers's Cisticola-Cisticola carruthersi
- vi. Northern-brown Throated Weaver-ploceus castanops

Birdlife International lists Papyrus Yellow Warbler and Papyrus Gonolek as globally threatened bird species, which require urgent conservation action (Birdlife International, IBAs Status Reports, 2004).

The riparian community, unique birds and other flora and fauna rely on these wetland for survival. Thus imperative in the provision of ecosystem goods and services crucial for wetlands and Lake Victoria biodiversity and socio-economic life of riparian villages. However, these ecosystem goods and services are under anthropogenic threats such as papyrus clearing as epitomized by wetland reclamation or unsustainable agriculture/cultivation and livestock grazing, over harvesting of papyrus for crafts and thatching, settlement, burning, sand harvesting, pollution, eutrophication, siltation, invasive species infestation, poaching of Sitatunga and persecution of hippos and otters-leading to high incidences of human-wildlife conflicts involving Hippos, Otters, Sitatunga and Birds. These have resulted to widespread externalities in the Lake and its outflow. These threaten its existence and linked ecosystem services key to biodiversity conservation and grassroots livelihoods security. Moreover, culminated into prevailing food insecurity and general poverty in the area and consequent unsustainable livelihoods or land uses. The scenario is exacerbated by retrogressive peoples' behaviour, attitudes, ignorance and fewer case studies to learn from.

This project was to enable conservation of Yala wetland through grassroots mobilisation and partnerships to deliver on habitat survey on the current ecosystem status in the face of ongoing threats, establish consistent grassroots detailed monitoring scheme for the wetland, habitat restoration, showcase nature-based enterprises to alleviate human pressure from the wetland, training of site conservation group and conservation education and public awareness for attitudinal and behaviour change for wetland conservation. The project mandate is captured in its goal and objectives:

Project Aim

To facilitate grassroots-based detailed monitoring and conservation of Yala Wetland.

Specific project objectives

- a. To undertake basic diagnostic habitat survey for Yala wetland ecosystem status under the prevailing human threats.
- b. To establish sustainable community-based detailed monitoring scheme for Yala wetland.
- c. To undertake training, conservation education and public awareness for attitudinal and behaviour change towards wetland conservation among Yala Wetland community.
- d. To show case sustainable alternative livelihoods for community households adoption to eliminate human pressure on the wetland.

The project has been running from February 2008 and managed to achieve the following milestones:

ACTIVITIES

Yala wetland habitat survey and monitoring scheme establishment

Yala wetland survey was undertaken for five days (30th May-3rd June 2008) and biophysical and socio-economic data on Yala wetland collected by help of volunteers (Figures 1, 2 and Table 1). The full survey report is available. The survey resulted in baseline information on its flora and fauna focussing more on birds and few plants. The outcome indicates that Yala wetland still hosts rich biodiversity but it's under great pressures from anthropogenic activities such as farming, livestock grazing, burning and over-harvesting for craft industries.



Figure 1: Survey and Monitoring Volunteers in front of Kanyaboli Satellite Lake

The survey involved point sampling along earmarked transects on the lakeward and landward side. The recorded data included human activities, GPS points, papyrus and other flora identification and conditions and birds. Similarly, grassroots volunteers were involved in two tier monitoring approach during establishment of transect and field monitoring of Yala wetland. This involved domestication of wetland monitoring protocols developed for Important Birds Areas (IBAs) by Nature Kenya for Site Support Groups. Thus wetland was surveyed and monitored through:

- First Tier-Basic Monitoring
- Second Tier-Detailed monitoring



Figure 2: Volunteers Surveying and Monitoring Yala Wetland, Hawinga Side.

The first tier (basic) monitoring is based on a regular review from the field. It forms an accepted, predictable and sustainable system. The same set of indicators will be

measured across Yala swamp in consequent surveys and monitoring. The second tier (detailed) monitoring was aimed at assessing the biophysical conditions as manifestation of threats that need to be tracked, that is, the papyrus vegetation, papyrus endemic birds and the water quality. These are normally not captured in the basic monitoring. The surveys produced baseline information on Yala wetland such as checklist of birds, plants and flowers.

NO.	NAME	INSTITUTION				
1	Risper Otieno	Friends of Yala				
2	Richard Juma	Friends of Yala				
3	Lucy Lumutu	Friends of Yala				
4	David Oloo	Friends of Yala				
5	Ibrahim Onyango	Friends of Yala				
6	Peter Otieno	Friends of Yala				
7	Julius Opondo	Friends of Yala				
8	Zachary Okoro	Friends of Yala				
9 Fran	cis Omungo	Ecofinder				
10 Mi	chae 1 Owiti	Ecofinder				
11 Jac	ktone Hamisi	Ecofinder				
12 Veronica Atieno		Ecofinder				
13 Juc	y Juma	Ecofinder				
14 Eri	ck Owira	Ecofinder				
15 Da	vid Owaga	Ecofinder				

Table 1: List of Volunteers during Yala Wetland Survey and Monitoring

Emerging Issues

The survey provided reasonable baseline information on biophysical and socioeconomic aspects of Yala Wetland to kick start conservation action, however, the following emerging issues will be addressed:

- i. The survey concentrated on Hawinga side of the wetland and there is need for additional survey for the entire wetland.
- ii. The produced checklist of birds, plants and flowers of Yala Wetlands was not exhaustive and there is need for improvement in future survey, monitoring or census.
- iii. There is need for multiple flora and fauna species survey for the entire wetland, that is incorporation of other species such as amphibians, reptiles, insects and fishes amongst others.
- iv. There is need for valuation of wetlands ecosystem goods and services to enable mainstreaming of the same into local and national planning.

Community training, conservation education and public awareness

Training through participatory workshop was undertaken in Hawinga primerary school from 30th May -1st June 2008, for eighteen patrons of nast ture clubs (T able 2) from ten respective primary schools. The participants' expectation included:

- i. How to be environmentally conscious.
- ii. More information about wetland and environment.
- iii. How to care for the wetland and general environment.
- iv. Learn on sustainable ways of living.
- v. Get equipped with knowledge and skills on environmental management.
- vi. How to improve the environment within the schools.
- vii. Learn how to co-exist with the environment and protect it.
- viii. Learn more about the ecological sanitation toilet (Ecosan toilet).
- ix. How to develop proposals so as to start up environmental activities within school.
- x. Understand the concept of eco-school.
- xi. Get to know one another and learn from them.

Table 2: List of Nature Club Patrons Trained During the Workshop

Names	School				
1. David Ochieng	Rasugu Primary School				
2. Erick Ouma Rasugu	Primary School				
3. Daviid Akong'o	Uwasi Primary School				
4. Charles Onyango	Uwasi Primary School				
5. Michael Omondi Ambogo	Uhembo Primary School				
6. Abel Ochieng	Uhembo Primary School				
7. George Ogangra	Nyandheho Primary School				
8. Musa Ahoo	Nyandheho Primary School				
9. Erick Omondi Ha	winga Primary School				
10. Julius Oloo	Mahero Primary School				
11. Julius Ogalo	Mahero Primary School				
12. Tom Okanda	Gangu Primary School				
13. John Todo	Nyakado Primary School				
14. Calisto Lumutu	Dibuoro Primary School				
15. Abisalom Mbolwa	Misori Primary School				
16. Nancy Ouma	Misori Primary School				
17. John Odinga	Hawinga Primary School				
18. Rosemary Otieno	Hawinga Primary School				

The training captu red the f ollowing them atic are as to e nable we tland conservation education and outdoor activities in those schools:

- a) Environmental education and action: environmental imperative s, wetlands conservation and action approaches, m ainstreaming approaches of wetlands conservation in curriculum and co-curriculum activities.
- b) Schools self-sufficiency concept: ag ricultural education, education for sustainability, eco-schools and school enterprises.

The represented schools finally developed work plan that included projects such as thematic outdoor excursions to the wetlands , poultry keeping, organic far ming and tree nursery enterprise to show case wetlands friendly activities and enterprises.

The training and survey was facilitated by practitioners listed in Table 3.

NO.	FACILITATOR	INSTITUTION				
1.	Beatrice Onoka	Ecofinder Kenya				
2.	Isaac Rayola Ondigo	Site Conservation Officer, Nature Kenya				
3.	Moses Odhiambo	Lake Victoria Sunset Birders				
4.	Michael Wairoma	Lake Victoria Sunset Birders				
5.	Elijah Obadha	Msc Aquatic Science Student, Maseno University				
6.	Martha Nzisa	Intern, Birdlife International, Africa				

 Table 3: Facilitators for the Training, Survey and Monitoring

On-site training was undertaken for Friend of Yala and Ecofi nder Kenya volunteers (Table 4) on basic and detailed wetland m onitoring. Similarly, Yala wetlands monitoring data sheet for bi-annual m onitoring was developed throug h dom estication of Nature Kenya IBAs monitoring protocols.

Table 4: List of volunteers framed on wettand Survey and Monitoring						
NO.	NAME	INSTITUTION				
1	Risper Otieno	Friends of Yala				
2	Richard Juma	Friends of Yala				
3	Lucy Lumutu	Friends of Yala				
4	David Oloo	Friends of Yala				
5	Ibrahim Onyango	Friends of Yala				
6	Peter Otieno	Friends of Yala				
7	Julius Opondo	Friends of Yala				
8	Zachary Okoro	Friends of Yala				
9 Fran	cis Omungo	Ecofinder				
10 Mi	chae 1 Owiti	Ecofinder				
11 Jac	ktone Hamisi	Ecofinder				
12 Ve	ronica Atieno	Ecofinder				
13 Juc	y Juma	Ecofinder				
14 Eri	ck Owira	Ecofinder				
15 Da	vid Owaga	Ecofinder				

 Table 4: List of Volunteers Trained on Wetland Survey and Monitoring



Figure 3: Survey and Monitoring Volunteers Learning how to Use GPS



Figure 4: Volunteer Measuring Water pH at Yala wetland

Conservation Education and Public Awarene ss (CEPA) through m obile education unit: talks, vid eo shows, theatre and pu ppetry outreaches in schools and strategic social networks such as beaches, m arkets and churches were undertaken. The approach involved pre-presentation or pe rformance interaction to establish presenters-audience rapport, presentation or perform ance and finally facilitated discussion on captured wetland conservation plus issues. 24 outreaches were held and each outreach had audience of approxim ately 380 (m inimum) and 1200 (m aximum). The audience segm entation percentage in terms of children, youth, wo men and men were 20%, 25%, 40% and 15% in that order.

The theatrical reperto ires covered them es such as comm unity-based wetlands management, entrepreneurship, wetland wise -use concept, tragedy of commons a nd imperative of leadersh ip, comm unity respon sibility and participation in wetlands management. The integral discussions with audience during theatrical outreaches brought out vividly ignorance, negativ e attitude and behaviour tow ards wetland: inexhaustible resource for all, failure to link their degradin g activities to decline in fisheries resources and water -borne diseases and concentr ation on consumptive as opposed to non-consumptive utilization of wetland friendly enterpri ses such as ecotour ism. The discuss ions enabled sharing on wetland friendly enterpri ses such as ecotourism , zoning and edge agriculture, organic farm ing a nd value add ition and a lternative raw m aterials such as bamboo for crafts.

Emerging Issues

There is need for follow-up scheme for involved schools in terms of resources support and technical backstopping to enable implementation of work plan and transformation into eco-school.

There is need of follow-up scheme to enab le bi-annual monitoring of Yala wetland in terms of monitoring gears, data storage and an alysis PC or laptop, first aid kit, resources for refresher training, volunteers lunches, coordination and mobility.

There is need for exchange programmes a nd local partnerships to enhance wetland conservation education and awareness in schools and community.

Demonstration of sustainable alternative livelihoods

The project only m anaged to organize for tr aining and talks on ecological sanitation, organic farming and tree nursery enterprises for its members and friends of Yala wetland through its partnerships. This was purely due to inadequate resour ces to facilitate establishment of demonstration projects on ecological sanitation (ecosan toilets), organic farming and tree nurseries enterprises for they were not factored into the current budget. Endeavours are being m ade to mobilis e reso urces for the sam e for they will provide alternatives to unsustainable activities and livelihoods impacting on Yala wetland such as farming, pollution from households in the form of human faeces and enable restoration of wetland. Moreover provide learning hub for r schools and user-groups on ecological sanitation, organic farming and tree nursery enterprises.

Emerging Issues

The conservation g roups, schools and user groups are willing to adopt eco logical sanitation, organic fa rming and tree-nurseries enterpri ses. This was exhib ited during training, talks and exchange programmes organized for them by Ecofinder Kenya through its partners. Hence need for consideration of the same in our future resource mobilization and project design.

Community Involvement and Partnerships

The project involved grass-r oot groups and user-groups in project planning and implementation. Friends of Yala, Yala Vi llage Environment Committees, Togo W omen Group and Yala village schools were involved in community mobilization, habitat survey and CEPA outreaches.



Figure 5: Ecofinder Project Team and Togo Women Group after Village meeting

Partnerships were for med with organizations s uch as Lake Victoria Sunset Bird ers, Provincial adm inistration (local chiefs), loca 1 a uthorities (a rea coun cillor) in terms of training, community mobilization and political goodwill and support.

The Coordinator of Ecofinder Kenya was invited by Friends of Yala for advance training of Nature Clubs Patrons under Nile Basin Ini tiative and by Lake Victoria Sunset Birders for training of Dunga wetland counts and l eaders on application of EMCA Act, 1999 for Dunga wetland conservation under Rufford Small Grants Foundation funded project.

Project Equipment

The following lists of equipm ent and materials were successfully purchased during this project and greatly en hanced delivery and ef fectiveness of this project and will be instrumental in our future Yala wetland conservation activities:

NO	Equipment/Material	No	Purpose
1.	Public Address System (PA)	1	Conservation education and public awareness
2.	Video System (VS)	1	Conservation education and public awareness
3. D	igital Camera	1	Documentation
4.	Global Positioning	1 \	Wetland Monitoring
	System (GPS)		
5. B	inoculars	2	Wetland Monitoring
6. B	ird Guide Books	2	Wetland Monitoring
7. P	lant Guide Books	2	Wetland Monitoring
8. G	um boots	12	Wetland Monitoring
9. W	Vaders	4	Wetland Monitoring
10.	Life jackets	8	Wetland Monitoring

11.	Bicycles	2	Field mobility
12.	Generator	1	Energy conversion for VS and PA



Figure 6: Moses Odhiambo with PA system speakers for community wetland education and mobilization after final touches.

The remaining project activities

The project is yet to acc omplish the following activities and will endeav our to do so in the months of January-February 2009.

- a) Four conservation education and public awareness outreaches.
- b) Two radio programmes on wetland conservation education and approaches.
- c) Evaluation of the project impact for improvement.

CONCLUSION AND RECOMMENDATION

The project m anaged to undertak e survey of Yala wetland (H awinga section), establish Yala wetland monitoring protocol, train eighteen nature club patrons and mobilise grass-roots schools and households in term s of wetland conservation education and public awareness towards the conservation of Yala wetland. The following recommendation will suffice:

Landscape or entire Yala ecosystem survey to cover entire wetland and provide baseline information on its status. Ecofinder Kenya is mobilising resources to fill this gap.

Mobilization of resources to facilitate bi-annual monitoring of Yala wetland for appraisal of conservation endeavours and timely conservation action. Ecofinder Kenya has embarked on this need.

Incorporation of upstream , m idstream and upstream villages in the conserv ation programme so that downstream or wetland level conservation efforts are not rendered self defeating by upstream and midstream degrading activities or livelihoods.Ecofinder Kenya

intend to fill this gap through alliance build in midstream like-minded organizations.

ing and partnerships with upstream and

Preparation of Yala wetland m anagement pl an. This is m ulti-stakeholder process and Ecofinder Kenya aim s to deliver on this through for ming Yala wetland stakeholder forum.

Networking with like-m inded partners and a dvocacy for transformation of Yala wetland into community conservation area as provided for by Environm ental Management and Coordination (EMCA), Act, 1999 or ramsar site by Ramsar convention

Establishment of wetland wise-use or eco- cultural village for training and showcasing wetlands wise use concept as provided for by Ramsar convention.

ANNEX

The Project Budget

The Project Dudget						
RUFFORD Small Grants for Nature	Conservation					
I GENERAL INFORMATION						
Project Proposal Name	Community Based Biodiv	ersity Monitor	ing and Cor	servation	of Yala We	tland, Kenya
Lead Organization Name	Ecofinder Kenya					
Country	Kenya					
Project Duration	Twelve Months					
Amount requested in Sterling Pounds	5000					
Local currency	Kenyan Shillings (Kshs)					
Amount requested in local currency	634029					
Rate Sterling Pound/local currency	0.0075758 (1:126.8058) Ce	entral Bank of K	enya Exchar	nge Rates a	s at 18/12/	2007
Ecofinder Contribution	The group and community	will contribute ir	n-kind and m	eet the bud	get deficit.	
II BUDGET BREAKDOWN						
			Budget forn	nula		
BUDGET ITEMS	Description	Unit	# of Units	Unit Rate	Amount i	Amount in
					local curr	UK Pounds
1. Project Costs						
a.Conservation Education	Facilitators Transport and F	Per outreach	28	1000	28000	221
	Video system for Mobile Ec		1	29000	29000	
	Public Address System	Per set	1	44000	44000	347
	Theatre Shows (Drama and		12	5000	60000	473
	Radio Programs or Drama		2	8000		126
	Eco-billboard and Construct		1	20000	20000	158
	Sub-total	- 5. 5	1	_0000	197,000	1,554
					137,000	1,004
b.Training						
(Site Conservation Group 5 days/15)	Writing pade and pape	Per person	35	100	3500	28
(Schools Nature Club Patrons 3 days		Per roll	12	400		
Controls Nature Club Fations 5 days	Felt pens	Per pen	22	200		
		Per roll			960	
	Masking tapes		8			
	Certificates production	Per cert	35 35			
	Transport reimbursement -	Per person				
	Meals	Per person	40			
	Facilitators Fee	Per person	3			331
	Hire of Hall	Per day	/	3000		
	Sub-total				134,410	1,060
- Lish ited Original A Missile e d Marsile et	Habitat survey and	D		50	100	
c.Habitat Survey & Wetland Monitorir		Per copy	2	50	100	1
	production	_				
	GPS	Per one	1	45000		
	Birds Guide Book	Per copy	2		7000	
	Plants Guide Book	Per copy	2		7000	
	Waders	Per one	4	8000	32000	252
	Gumboots	Per one	12	300	3600	28
	Binoculars	Per one	2	7500	15000	118
	Life jackets	Per one	8			
	Boat and Generator Fuel	Lumpsum	Project life	12000	12000	95
	Lunch for Volunteers	Lumpsum	Project life	28000	28000	
	Subtotal				156,900	
d. Transport	Field Mobility: Bicycles	Per Bike	2		6000	
e. Communications	Reporting, Coordination Ca		12		24000	
f. Field Allowance	Project Team Leader	Per Month	12	4000		
	Project Assistants (2 Perso	Per Month	9	4000	36000	
	Subtotal				114,000	
A. Sub-total Project Costs	a+b+c+d+e+f				602,310	4,750
2. Institutional Costs						
g. Office expenses	Stationery and Miscellaneo		12	1000	12000	95
	Digital Camera (Documenta		1			
h. Evaluation	Data Collectors 3 days	Per person	4		12000	95
	Facilitators 3 days	Per person	2	6000	12000	95
	Subtotal				54,000	426
B. Sub-total Institutional Costs	g + h					
					656,310	5,176
Sub-total	A + B					
Sub-total i. 5% Unforeseen	A + B Contigency	Project Life			32815.5	