

Nigeria Erosion and Watershed Management Project (P124905)

AFRICA | Nigeria | Environment & Natural Resources Global Practice | IBRD/IDA | Investment Project Financing | FY 2012 | Seq No: 13 | ARCHIVED on 13-May-2019 | ISR36805 |

Implementing Agencies: Federal Ministry of Finance

Key Dates

Key Project Dates

Bank Approval Date: 08-May-2012 Planned Mid Term Review Date: 25-Jan-2016 Original Closing Date: 30-Jun-2020 Effectiveness Date: 16-Sep-2013 Actual Mid-Term Review Date: 25-Jan-2016 Revised Closing Date: 30-Jun-2021

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

To reduce vulnerability to soil erosion in targeted sub-watersheds.

Has the Project Development Objective been changed since Board Approval of the Project Objective? No

Components

Name

Component 1: Erosion and Watershed Management Infrastructure Investments:(Cost \$659.20 M) Component 2: Erosion and Watershed Management Institutions and Information Services:(Cost \$74.99 M) Component 3: Climate Change Response:(Cost \$50.38 M) Component 4: Project Management:(Cost \$124.02 M)

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	 Satisfactory 	 Satisfactory
Overall Implementation Progress (IP)	 Satisfactory 	 Satisfactory
Overall Risk Rating	●High	●High

Implementation Status and Key Decisions

Project implementation has improved greatly since the last review. States continue to collaborate with respective MDAs and Local Government Authorities (LGAs) to deliver activities and ensure sustainability of the project. Additional Financing (AF) of USD 400 million (USD 300 million from IDA 18 and USD 100 million from IDA 18 Scale-up Facility) was approved by the World Bank's Board of Executive Directors on June 27th, 2018. Good progress has been achieved towards the effectiveness of the AF. During the period under review, both the Financial Agreement and Legal Opinion were signed by the Federal Government of Nigeria.



The World Bank Nigeria Erosion and Watershed Management Project (P124905)

Significant achievements since the last review period include:

- 1. Average physical progress within the 21 old sites is 92% with over 1,558.62 hectares of degraded land reclaimed.
- 2. Storm Water Master Plan developed for Onitsha in Anambra State.
- 3. 15 participatory sub-watershed management plans developed under the project in the States of Cross-River (5), Abia (5) Anambra (4) and Enugu(1).
- 4. 13 improved erosion risk maps developed in Abia, Anambra, Cross River, Edo, Enugu, Ebonyi, Akwa Ibom, Delta, Kogi, Plateau, Kano and Sokoto States.
- 5. The project's original ambition of restoring 30 gullies has been exceeded. Currently, 55 sites specific designs are ready for implementation.
- By providing technical, advisory, financial and global knowledge, the project supported the issuance of Africa's First Sovereign Green Bonds: In December 2017, Nigeria issued Africa's first sovereign Green Bond with a capital value of US\$30 million. The is also providing continuous support to the issuance of the second Green Bond.
- 7. 9, 318.00 households are benefitting from livelihood enhancement activities such as gabion box welding, cement sales, block molding, aquaculture, tailoring, horticulture (plant nurseries, vegetable farming, planting of fruits etc.), renting of chairs and canopy (done by the physically challenged), cassava processing, palm oil production and processing etc.
- 8. Erosion and Watershed Management Agency has been established in Enugu State by, His Excellency, Rt. Hon. Ifeanyi Ugwuanyi, Executive Governor.
- According to the client's progress report of March 2019, NEWMAP has supported the installation of 61 Hydrological and Meteorological Stations across Anambra-Imo River Basin Development Authority and Cross-River Basin Development Authority. Also, 10 Automated Early Flood Warning Systems (AFEWS) have been installed. The stations are providing data/for flood outlook and rainfall prediction.

Risks

Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance		 Substantial 	Substantial
Macroeconomic		High	High
Sector Strategies and Policies		Moderate	Moderate
Technical Design of Project or Program		Moderate	Moderate
Institutional Capacity for Implementation and Sustainability		 Substantial 	Moderate
Fiduciary		High	 Substantial
Environment and Social		High	High
Stakeholders		 Substantial 	Substantial
Other			
Overall		High	High

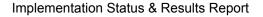
Results

PDO Indicators by Objectives / Outcomes

To reduce vulnerability to soil erosion in targeted sub-watersheds.



 Targeted gully comp (Number, Custom) 	lexes and other erosion site	s treated with 100% of plan	ned measures for targete	ed sub-watersheds		
	Baseline	Actual (Previous)	Actual (Current)	End Target		
/alue	0.00	20.00	21.00	55.00		
Date	08-May-2012	28-Sep-2018	23-Apr-2019	30-Jun-2021		
Comments:	Abia State and Ebor the initial 21 gully sit	eased from 20 to 21 sites as a nyi State (Ebia River and Odun es in the seven Tier 1 States. C en started on fifteen of these site	ukwe Nkaliki). Works have Currently 56 new sites have	largely been completed or		
 Targeted gully comp 	lexes and other erosion site	s with reduced severity leve	el after treatment (Numbe	er, Custom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target		
Value	0.00	20.00	26.00	55.00		
Date	08-May-2012	28-Sep-2018	23-Apr-2019	30-Jul-2021		
Area under bio-reme	ediation in targeted sub-wate	ersheds (Hectare(Ha), Custo	om)			
	Baseline	Actual (Previous)	Actual (Current)	End Target		
Value	0.00	947.87	1,093.32	400.00		
Date	08-May-2012	28-Sep-2018	23-Apr-2019	30-Jun-2021		
Comments:	project achieving do engineering done wh	Bio-engineering is a major focus in the Project and is embedded in all designs and this has resulted to the project achieving double of the end target. Activities cut across the Northern States, in addition to bio- engineering done when sites have been completed in Southern States. There has been increase in hectares from 947.87 to 1,093.32, majorly from activities in Gombe and reforestation activities in Kogi				
►Land area under sus	stainable landscape manage	ement practices (Hectare(Ha	a), Corporate)			
	Baseline	Actual (Previous)	Actual (Current)	End Target		
Value	0.00	1,408.80	1,558.62	400.00		
Date	08-May-2012	28-Sep-2018	23-Apr-2019	30-Jun-2021		
Comments:	hectares increase is	Inder sustainable landscape ma as a result of reclaimed degra and Ebonyi (civil works at Ebia	ded land in the States of G	iombe (120 hectares),		
►Net Greenhouse Em	issions (tones CO2 annually	y) (Tones/year, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target		
Value	0.00	0.00	0.00	-2,411.00		
Date	08-May-2012	28-Sep-2018	23-Apr-2019	30-Jun-2021		
Comments:	The indicator has be	en added as this is an applicat	le corporate results indicate	or. Greenhouse gas (GHG)		





bioeremediation in targeted subwatersheds (1093.32 ha). The ToR for this activity has received Bank's no objection.

Intermediate Results Indicators by Components

Component 4: Project Management

▶ Reports produced on project progress at federal and state levels (Number, C	Custom)
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	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	16.00	18.00	18.00
Date	08-May-2012	28-Sep-2018	23-Apr-2019	30-Jun-2021
Comments:		a, Cross River, Ebonyi, Edo, E o, Katsina, Nasarawa and Nig		

Component 1: Erosion and Watershed Management Infrastructure Investments

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1,409.00	1,558.62	20,000.00
Date	08-May-2012	28-Sep-2018	23-Apr-2019	30-Jun-2021

► Participatory sub-watershed Management plans developed under the project for targeted erosion affected sub-watersheds (Number, Custom)

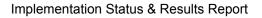
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	14.00	15.00	38.00
Date	08-May-2012	28-Sep-2018	23-Apr-2019	30-Jun-2021

15 participatory sub-watershed management plans developed under the project in the States of Cross-River (5), Abia (5) Anambra (4) and Enugu(1).

Comments:

► People receiving project-supported advisory support services in integrated land/water management practices, planning, and/or monitoring under the Project (of which 40% female) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	5,159.00	5,866.00	90,000.00
Date	08-May-2012	28-Sep-2018	23-Apr-2019	30-Jun-2021
Comments:	practices, planning, and r	nefitted from advisory suppor nonitoring during the sensiti T's 2019 Sectional Rainfall Pi	zation and awareness on	





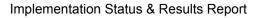
Note: NEWMAP is currently supporting NIMET through the installation of 61 hydromet stations for flood outlook and rainfall prediction.

 Households benefi 	tting from livelihoods enhance	ement activities under the Pr	oject (of which 40% fem	ale) (Number, Custom)
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	9,318.00	9,318.00	12,000.00
Date	08-May-2012	28-Sep-2018	23-Apr-2019	30-Jun-2021
	cement sales, block planting of fruits etc. processing, palm oil ailed design for treatment of g		horticulture (plant nurserie (done by the physically cha sites in targeted subwat	s, vegetable farming, illenged), cassava
the project that have	e received WBG No-Objection	but not financed by NEWM	AP (Number, Custom)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Baseline 0.00	Actual (Previous) 0.00	Actual (Current) 0.00	End Target 30.00
Value Date		· · · · · ·	, , ,	0

Component 3: Climate Change Response

► Technical reports/ guidelines on promoting low carbon development or enhancing climate resilience completed (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	6.00	6.00	7.00
Date	08-May-2012	28-Sep-2018	23-Apr-2019	30-Jun-2021
Comments:	developed under NE Climate Change); ii) Report; iv) Baseline	s/ guidelines on promoting low of WMAP include: i) NAMAS Rep Off-Grid Solar Power Feasibilit Survey of Clean Cook Stoves;) LPG as a Low Carbon alterna	oort (National Appropriate N y Study Report; iii) Climate y) Report for installation of	Iitigation Actions on e data Management Syster Low Carbon Bakery in
Climate adaptation	Now earbon domenstration n	rejects completed (Number	Custom)	
►Climate adaptation	/low carbon demonstration p	• • • •		
►Climate adaptation	/low carbon demonstration p Baseline	rojects completed (Number, Actual (Previous)	Custom) Actual (Current)	End Target
		• • • •		End Target 10.00
►Climate adaptation Value Date	Baseline	Actual (Previous)	Actual (Current)	





Value	Baseline 0.00	Actual (Previous) 1.00	Actual (Current) 1.00	End Target 1.00
Date	27-Jun-2018	28-Sep-2018	23-Apr-2019	30-Jun-2021
Comments:	Africa's First Sovere Bond with a capital	cal, advisory, financial and globa eign Green Bonds: In December value of US\$30 million. The proj Green Bond will enable canital.rs	r 2017, Nigeria issued Afric	a's first sovereign Green the issuance of the second

	Baseline	Actual (Previous)	Actual (Current)	End Target			
Value	0.00	1.00	1.00	4.00			
Date	08-May-2012	28-Sep-2018	23-Apr-2019	30-Jun-2021			
	5	Through the China-World Bank Partnership Facility Trust Fund, the Bank is supporting the Federal Covernment of Nigeria to establish a Spatial Knowledge Management Information System on erosion and					

Comments:

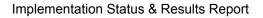
Government of Nigeria to establish a Spatial Knowledge Management Information System on erosion and watersheds. Deliberation ongoing between NEWMAP, Antrix, ISRO and NASRDA.

 Upgraded and newl 	v installed stations	providing da	ta for integrated	catchment i	olanning (Number, Custom)	
P Opgraada ana nom	y motanoa otationo	providing dd	a for integratoa	outorniont			

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	34.00	61.00	100.00
Date	08-May-2012	28-Sep-2018	23-Apr-2019	30-Jun-2021
Comments:	61 stations installed systems and 39-Mar installed and/or reha Cross-River Basin D	ng the enabling environment ar which comprise of 7-Automatic rual and automatic hydrological bilitated in the Anambra-Imo Ri evelopment Authority (CRBDA ction Platforms) for flood monito	Weather Observation Sysl I stations for surface water iver Basin Development Au). This also include the inst	tems (AWOS), 12-Agromet monitoring have been uthority (AIRBDA) and allation of 3 Telemetry

► City storm water master plans developed which are informed by climate projections of increased rainfall intensity and risk assessments (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target			
Value	1.00	0.00	2.00	3.00			
Date	08-May-2012	28-Sep-2018	23-Apr-2019	30-Jun-2021			
Comments:	In addition to the Storm Water Master Plan in Edo State, Anambra Master Plan has been approved.						



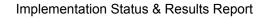


 EIA guidelines develo drainage) (Number, Cus 		nt types that affect erosion (road cross drainage, urb	an water supply and						
	Baseline	Actual (Previous)	Actual (Current)	End Target						
Value	0.00	0.00	0.00	1.00						
Date	08-May-2012	28-Sep-2018	23-Apr-2019	30-Jun-2021						
Comments:	Discussions in prog	Discussions in progress to finalize the guidelines.								
►National Centers of E	xcellence in erosion contro	ol established, operational a	nd functional (Number, C	Custom)						
	Baseline	Actual (Previous)	Actual (Current)	End Target						
Value	0.00	0.00	0.00	3.00						
Date	27-Jun-2018	28-Sep-2018	23-Apr-2019	30-Jun-2021						
Comments:	Ongoing discussion with University of Lagos and NASRDA on National Centers of Excellence for safeguards and erosion risk mapping and monitoring.									
► States with improved	erosion risk mapping (Nur	nber, Custom)								
	Baseline	Actual (Previous)	Actual (Current)	End Target						
Value	0.00	10.00	13.00	19.00						
Date	27-Jun-2018	28-Sep-2018	23-Apr-2019	30-Jun-2021						
Comments:	13 improved erosion risk maps developed in Abia, Anambra, Cross River, Edo, Enugu, Ebonyi, Akwa Ibom, Delta, Kogi, Plateau, Kano and Sokoto States.									
►Community Interest G	roup collecting municipal	solid waste in project interve	ention areas (Number, Cu	ustom)						
	Baseline	Actual (Previous)	Actual (Current)	End Target						
Value	0.00	0.00	0.00	50.00						
Date	27-Jun-2018	28-Sep-2018	23-Apr-2019	30-Jun-2021						
Comments:	New indicator addeo setting up Commun ongoing.	d with Additional Financing rest ity Interest Group collecting mu	ructuring, approved June 27 nicipal solid waste in projec	7, 2018. The process of t intervention areas						

Overall Comments

The Project Development Objective (PDO) remains valid. Work being undertaken in the project is still very much in line with the PDO.

Data on Financial Performance





The World Bank Nigeria Erosion and Watershed Management Project (P124905)

Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% D	isbursed
P124905	IDA-51050	Effective	USD	500.00	500.00	0.00	451.10	0.00		100%
P124905	IDA-62770	Not Effective	USD	300.00	300.00	0.00	0.00	293.92		0%
P124905	IDA-62780	Not Effective	USD	100.00	100.00	0.00	0.00	100.00		0%
P126549	TF-12434	Effective	USD	3.96	3.96	0.00	3.44	0.52		87%
P126549	TF-12435	Effective	USD	4.63	4.63	0.00	2.22	2.41		48%
Key Dates	s (by Ioan)									
Project	Loan/Credit/TF	Status	Approval Dat	e Sign	ing Date	Effectiveness	Date Orig.	Closing Date	Rev. Closing	Date
P124905	IDA-51050	Effective	08-May-2012	16-A	pr-2013	16-Sep-2013	30-Ju	n-2020	30-Jun-2020	
P124905	IDA-62770	Not Effective	27-Jun-2018				30-Ju	n-2021	30-Jun-2021	
P124905	IDA-62780	Not Effective	27-Jun-2018				30-Ju	n-2021	30-Jun-2021	
P126549	TF-12434	Effective	16-Apr-2013	16-A	pr-2013	16-Apr-2013	30-Ju	n-2020	30-Jun-2020	
P126549	TF-12435	Effective	16-Apr-2013	16-A	pr-2013	16-Apr-2013	30-Ju	n-2020	30-Jun-2020	

Cumulative Disbursements

The World Bank Nigeria Erosion and Watershed Management Project (P124905)



Restructuring History

Level 2 Approved on 27-Apr-2018

Related Project(s)

P126549-Nigeria Erosion and Watershed Management Project ,P164082-Nigeria Erosion and Watershed Management Project (NEWMAP) - Additional Financing