Integrated Water Resources Management in Ten Basins (P151851)

LATIN AMERICA AND CARIBBEAN | Peru | Water Global Practice | IBRD/IDA | Investment Project Financing | FY 2017 | Seq No: 9 | ARCHIVED on 21-Oct-2021 | ISR48645 |

Implementing Agencies: National Water Authority of the Ministry of Agriculture - Autoridad Nacional del Agua (ANA), REPUBLIC OF PERU

Key Dates

Key Project Dates

Bank Approval Date: 28-Apr-2017 Effectiveness Date: 12-Mar-2018

Actual Mid-Term Review Date: 26-Jan-2021 Planned Mid Term Review Date: 30-Sep-2020

Original Closing Date: 30-Dec-2022 Revised Closing Date: 30-Dec-2022

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The proposed Project Development Objective (PDO) is to strengthen the capacity of targeted water resources management related institutions to plan, monitor and manage water resources at the national level and in selected river basins in Peru.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

No

Public Disclosure Authorized

Components

Name

Component 1: Consolidating IWRM at the National Level:(Cost \$65.16 M)

Component 2: Improving WRM in Selected Pilot River Basins:(Cost \$14.80 M)

Component 3: General Project Administration:(Cost \$8.19 M)

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	□Moderately Satisfactory	□Moderately Satisfactory
Overall Implementation Progress (IP)	Satisfactory	□Moderately Satisfactory
Overall Risk Rating	□Substantial	Substantial

Implementation Status and Key Decisions

This ISR covers the period from March to September 2021 and reflects the findings of one implementation support mission and several project progress meetings over that period of time. Following progress in the implementation of project activities over the first years of implementation, the Project is on a good path to achieving its Project Development Objective. Several contracts to execute investments under the Project continue to progress, including the installation of a data center for the National Water Resources Information System, the installation of dam monitoring instrumentation, the perforation of groundwater monitoring wells and the preparation of basin management plans for the participating river basins in the Atlantic watershed. Newly signed contracts to carry out investments of installation of hydrometeorological stations and automatic irrigation canal measuring gauges have experienced partial delays due to delays in international shipping caused by issues in the global supply chain. These delays together with continuous impact of measures taken by the Government to contain the spread of COVID-19 starting since early 2020 are continuing at varying levels of severity and the Bank is monitoring a potential impact on the project implementation timeline in order to proactively seek solutions to ensure a successful achievement of the Project Development Objective by the current Project closing date December 2022.

10/21/2021 Page 1 of 7

Multiphase Programmatic Approach (MPA) Status

Risks

Systematic Operations Risk-rating Tool

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

Results

PDO Indicators by Objectives / Outcomes

Strengthen capacity of targeted WRM related institutions to plan, monitor and manage water resources

	es information System providing nd general public (Text, Custom	9	normation products to decis	ion makers, water
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	NWRIS databases established.	NWRIS databases established.	NWRIS databases established.	NWRIS fully integrated with monitoring systems, DSS tools and providing data and information products.
Date	14-Mar-2017	16-Mar-2021	08-Oct-2021	30-Dec-2022
Comments:	design of the decision s	/RIS is underway, including the support tool, and the develops are housing hydrological and at.	ment of data collection and	data mainstreaming. The

10/21/2021 Page 2 of 7

►Dam safety unit establ	lished and operational (Text, Custom))		
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No unit.	Unit dissolved and proposed for re-establishment.	Unit established.	Dam safety program in place with unit operational, legal framework established guidelines and tools developed. Implementation of monitoring systems in place for selected dams
Date	14-Mar-2017	16-Mar-2021	08-Oct-2021	30-Dec-2022
Comments:		M Unit was established by Obeing staffed, define function		
►Basin councils /commi	ittees with approved IWRM plans and	d under implementation (Tex	t, Custom)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	6.00	6.00	6.00	10.00
Date	14-Mar-2017	16-Mar-2021	08-Oct-2021	30-Dec-2022
Comments:	Pacific have been establish project; 4 committees on the	r resources councils and one ned already prior to this proje ne Atlantic side have been re ne Atlantic basins is advancii	ect and will update their b cently established under	pasin plan as part of this
► Groundwater committee Custom)	ees established for targeted aquifers	with participatory manageme	ent plans approved unde	r implementation. (Text,
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No committees in place.	No committees in place.	No committees in place.	Participatory groundwater management committees operationa with management plans under implementation
Date	14-Mar-2017	16-Mar-2021	08-Oct-2021	30-Dec-2022
Comments:	Creation of 4 groundwater	measuring and control and committees planned to start f management plan for Tacna	2021, as are the 2 mana	

Intermediate Results Indicators by Components

Component 2: Improving WRM in Selected Pilot River Basins

▶ Number of basins in the Pacific Watershed with IWRM plans updated with financing and under implementation (Text, Custom)

Baseline Actual (Previous) Actual (Current) End Target

10/21/2021 Page 3 of 7

Value	6 (with average 30% of plans implemented)	6 (with average 30% of plans implemented) 6 (with average 60% of plans implemented)		 6 plans with financin secured and under implementation 	
Date	14-Mar-2017	16-Mar-2021	08-Oct-2021	30-Dec-2022	
Comments:		lopment of 4 plans in the Atla restrictions in gathering due		er consultations ongoing	
	gram tailored to Atlantic Watershed cover basin level (Text, Custom)	ontext to build capacity and in	mprove knowledge and pra	ctices of the general	
	Baseline	Actual (Previous)	Actual (Current)	End Target	
Value	Cultura de Agua program rolled out in 6 basins in Pacific Watershed	Cultura del Agua program rolled out in 6 basins in Pacific Watershed.	Cultura del Agua program rolled out in 6 basins in Pacific Watershed.	Cultura de Agua program rolled out in primary schools, targeted user groups and general public through various campaigns and capacity building activities	
Date	14-Mar-2017	16-Mar-2021	08-Oct-2021	30-Dec-2022	
Comments:	Outline for Cultura de Agua been trained and education Education for campaigns ir	a program developed for the n guidelines have been deve n schools.	Atlantic Watersheds. Spec loped in collaboration with	ifically, 61 persons have the Ministry of	
►Integrated forecasting Custom)	and early warning plans implemente	d in targeted basins and pro	vide real-time information t	o general public (Text,	
	and early warning plans implemente Baseline	d in targeted basins and pro-	vide real-time information to Actual (Current)	End Target	
Custom)					
Custom)	Baseline	Actual (Previous)	Actual (Current)	End Target 2 integrated forecasting and early warning plans implemented in targeted basins and providing information	
Value Date	0.00 14-Mar-2017	Actual (Previous) 0.00	Actual (Current) 0.00 08-Oct-2021	End Target 2 integrated forecasting and early warning plans implemented in targeted basins and providing information to general public	
Custom) Value Date Comments:	0.00 14-Mar-2017	Actual (Previous) 0.00 16-Mar-2021	Actual (Current) 0.00 08-Oct-2021	End Target 2 integrated forecasting and early warning plans implemented in targeted basins and providing information to general public	
Custom) Value Date Comments: Component 1: Consolidation	0.00 14-Mar-2017 Not yet initiated, depends of	Actual (Previous) 0.00 16-Mar-2021 on data collection and analys	Actual (Current) 0.00 08-Oct-2021	End Target 2 integrated forecasting and early warning plans implemented in targeted basins and providing information to general public	
Custom) Value Date Comments: Component 1: Consolida	Baseline 0.00 14-Mar-2017 Not yet initiated, depends of the strong IWRM at the National Level	Actual (Previous) 0.00 16-Mar-2021 on data collection and analys	Actual (Current) 0.00 08-Oct-2021	End Target 2 integrated forecasting and early warning plans implemented in targeted basins and providing information to general public	
Custom) Value Date Comments: Component 1: Consolidation	Daseline 0.00 14-Mar-2017 Not yet initiated, depends on the string IWRM at the National Level with O&M arrangements in place (Text	Actual (Previous) 0.00 16-Mar-2021 on data collection and analys	Actual (Current) 0.00 08-Oct-2021 sis, which is ongoing.	End Target 2 integrated forecasting and early warning plans implemented in targeted basins and providing information to general public 30-Dec-2022	
Custom) Value Date Comments: Component 1: Consolida Monitoring systems w	Baseline 0.00 14-Mar-2017 Not yet initiated, depends on the street of	Actual (Previous) 0.00 16-Mar-2021 on data collection and analys c, Custom) Actual (Previous) No monitoring system in	Actual (Current) 0.00 08-Oct-2021 sis, which is ongoing. Actual (Current) Monitoring systems	End Target 2 integrated forecasting and early warning plans implemented in targeted basins and providing information to general public 30-Dec-2022 End Target	

10/21/2021 Page 4 of 7

	Baseline	Actual (Previous)	Actual (Current)	End Target	
Value	0.00	820.00	820.00	40% increase in hits t NWRIS web site and web portal demonstrating increased use of databases and, analysis information products	
Date	14-Mar-2017	16-Mar-2021	08-Oct-2021	30-Dec-2022	
Comments:		December 2020, the number 12,837 at baseline month De			
► Number of dams with	n dam safety assessments completed	and monitoring instruments	installed (Text, Custom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target	
Value	0.00	1.00	1.00	8.00	
Date	14-Mar-2017	16-Mar-2021	08-Oct-2021	30-Dec-2022	
Comments:	Installation of monitoring i dam. Other assessments	nstruments at 92% of progre planned for 2022.	ess. Dam safety assessment	completed for Poechos	
► Monitoring and inspe	ection of water use rights formalized for	or irrigation units (bloques) b	y ALA and water users asso	ociations (Text, Custom)	
► Monitoring and inspe	ection of water use rights formalized for Baseline	or irrigation units (bloques) b Actual (Previous)	y ALA and water users asso Actual (Current)	ociations (Text, Custom) End Target	
► Monitoring and inspe	-	-			
Value	Baseline No right formalized for	Actual (Previous) No right formalized for	Actual (Current) No right formalized for	End Target An increase in the number of formalized water rights in 800 irrigation units based on installation and monitoring of surface water abstraction for	
Value	No right formalized for irrigation units. 14-Mar-2017 Sensibilization and capac	Actual (Previous) No right formalized for irrigation units.	Actual (Current) No right formalized for irrigation units. 08-Oct-2021 hydraulic systems are programmer.	End Target An increase in the number of formalized water rights in 800 irrigation units based on installation and monitoring of surface water abstraction for irrigation use 30-Dec-2022	
Value Date Comments:	No right formalized for irrigation units. 14-Mar-2017 Sensibilization and capac	Actual (Previous) No right formalized for irrigation units. 16-Mar-2021 ity building about communal in the sensibilization exercise	Actual (Current) No right formalized for irrigation units. 08-Oct-2021 hydraulic systems are programmer.	End Target An increase in the number of formalized water rights in 800 irrigation units based on installation and monitoring of surface water abstraction for irrigation use 30-Dec-2022	
Value Date Comments:	No right formalized for irrigation units. 14-Mar-2017 Sensibilization and capace local leaders participating	Actual (Previous) No right formalized for irrigation units. 16-Mar-2021 ity building about communal in the sensibilization exercise	Actual (Current) No right formalized for irrigation units. 08-Oct-2021 hydraulic systems are programmer.	End Target An increase in the number of formalized water rights in 800 irrigation units based on installation and monitoring of surface water abstraction for irrigation use 30-Dec-2022	
Value Date Comments:	No right formalized for irrigation units. 14-Mar-2017 Sensibilization and capace local leaders participating	Actual (Previous) No right formalized for irrigation units. 16-Mar-2021 ity building about communal in the sensibilization exercises asis (Text, Custom)	Actual (Current) No right formalized for irrigation units. 08-Oct-2021 hydraulic systems are progress.	End Target An increase in the number of formalized water rights in 800 irrigation units based on installation and monitoring of surface water abstraction for irrigation use 30-Dec-2022 ressing at 77% with 124	

10/21/2021 Page 5 of 7

Comments:		Plan in place for periodic monitoring in selected basins, coordinated with AAAs and ALAs. Contracts to install automated water quality equipment in selected points has been awarded and purchase is in progress.							
► An increase in collection	n fees (retribución economica) for u	use of surface, groundwater	and discharge of wastewate	er (Text, Custom)					
	Baseline	Actual (Previous)	Actual (Current)	End Target					
Value	No increase in collection fees.	36% increase by 2019	36% increase by 2019	20% increase in collection of water use and discharge fees.					
Date	14-Mar-2017	16-Mar-2021	08-Oct-2021	30-Dec-2022					
Comments: ▶ Number of water resource	baseline of PNS 206 million		are not yet available. It is ex 020 due to the impact of the	pected that overall					
	Baseline	Actual (Previous)	Actual (Current)	End Target					
Value	40 (registered by Defensoría del Pueblo)	40 (registered by Defensoria del Pueblo)	40 (registered by Defensoria del Pueblo)	20 conflicts satisfactorily addressed with analysis and expert knowledge					
Date	14-Mar-2017	16-Mar-2021	08-Oct-2021	30-Dec-2022					
	Not yet progressed.								

Performance-Based Conditions

Data on Financial Performance

Disbursements (by loan)

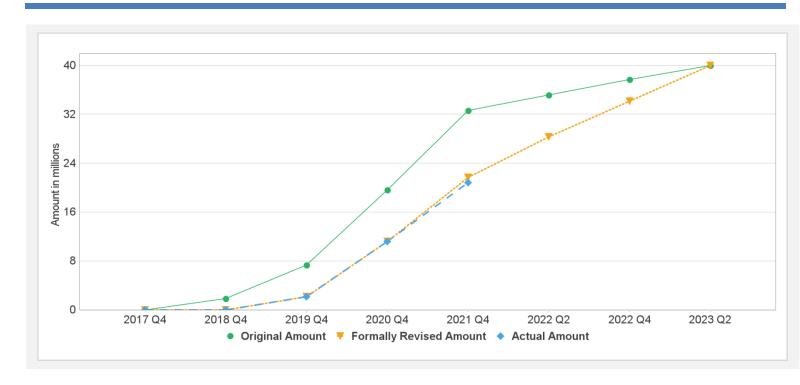
Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P151851	IBRD-87400	Effective	USD	40.00	40.00	0.00	22.81	17.19	57%

Key Dates (by Ioan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P151851	IBRD-87400	Effective	28-Apr-2017	25-Sep-2017	12-Mar-2018	30-Dec-2022	30-Dec-2022

Cumulative Disbursements

10/21/2021 Page 6 of 7



Restructuring History

There has been no restructuring to date.

Related Project(s)

There are no related projects.

10/21/2021 Page 7 of 7