



Operation Number: **BA-L1015**
Year- PMR Cycle: **First period Jan-Jun 2014**
Last Update: **11/6/2014**
PMR Validation Stage: **Validated by Representative**

Chief of Operations validation date: **11/06/2014**
Division Chief validation date: **11/07/2014**
Country Representative validation date: **11/27/2014**

Inter-American Development Bank - IDB
Office of Strategic Planning and Development Effectiveness

Operation Profile

Basic Data

Operation name:	Water and Sanitation Systems Upgrade	Loan Number:	2255/OC-BA
Executing Agency (EA):	BARBADOS WATER AUTHORITY		
Team Leader:	Cayetano,Evan Stephen	Sector/Subsector:	AS
Operation Type:	Loan Operation	Overall Stage:	Disbursing (From eligibility until all the loans are closed).
Lending Instrument:	Investment Loan	Country:	BARBADOS
Borrower:	BARBADOS	Convergence related Operation(s):	

Total Cost and Source

	Original IDB	Current Active IDB	Local Counterpart	Co-Financing/Country	Total operation cost - Original Estimate
BA-L1015	\$50,000,000.00	\$43,200,000.00	\$3,000,000.00	\$0.00	\$53,000,000.00

Available Funds (US\$)

	Current IDB	Disb. Amount to Date	% Disbursed	Undisbursed Balance
BA-L1015	\$43,200,000.00	\$14,914,365.50	34.52%	\$28,285,634.50

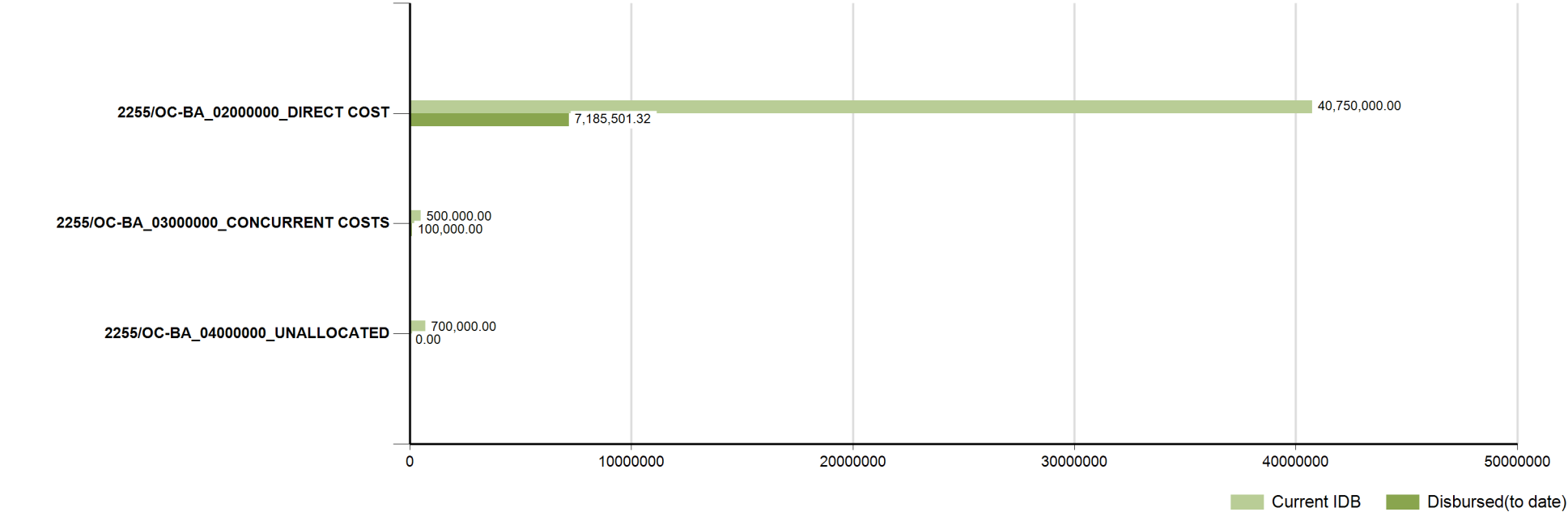
Environmental and Social Safeguards

Main Operation	
Impacts Category:	B
Safeguard Performance Rating:	
Safeguard Performance Rating - Rationale:	

Reformulation Information

Main Operation	
Was/Were the objective(s) of this operation reformulated?	NO
Date of approval:	

Expense Categories by Loan Contract (cumulative values)



Results Matrix

Impacts


Impact:	0 Rehabilitation of Potable Water Supply to support sustainability of the service						
Observation:	Essentially through NRW activities						
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	EOP
0.0 N# of Production Meters replaced		Meters	0.00	2011	Reports from PEU.		P
							P(a)
							A
0.1 NRW Program Implemented (Completion of relevant procurement).		Program	0.00	2011	Reports from the PEU / BWA		P
							P(a)
							A

 RF - RF Indicator
  SI - Sector Indicator
  CI - Country Indicator
  PG - Pro-Gender
  PE - Pro-Ethnicity

Outcomes

Outcome:	1 Sustainable water and wastewater utility services are provided by the BWA													
Observation:	The Project will, in May 2012, complete one year since eligibility for disbursements. Based on the Project Execution Plan presented in the 2012 Annual Operating Plan the Executing Agency requested and the Bank has approved a one year extension to the Disbu													
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	2010	2011	2012	2013	2014	2015	2016	EOP
1.1 Employees per 1000 connections		employees	7.80	2009	Inspection visits and progress reports	On track	P							7.20
							P(a)	7.80	7.80	7.60	36.40	7.20	7.20	7.20
							A			7.60	7.50	7.50		
1.2 Customers qualifying BWA's services as good or very good		%	70.00	2012	Survey results, Inspection visits and progress reports	On track	P							76.00
							P(a)			30.00	50.00	60.00	75.00	76.00
							A			0.00	70.00	60.00		
1.3 Earnings before interest, taxes, depreciation and amortization (EBITDA)/Total operating revenues		%	0.00	2009	Inspection visits and progress reports	Highly improved. To be reviewed in upcoming mission	P							10.00
							P(a)		0.00	3.00	6.00	10.00	10.00	10.00
							A			21.00	24.00	0.00		
1.4 Non-revenue water (NRW)		%	49.00	2009	Inspection visits and progress reports	Works for reduction of NRW not yet started; preparation for these works is in progress.	P							47.00
							P(a)	49.00	49.00	49.00	47.00	45.00	42.00	39.00
							A			49.00	49.00	49.00		

1.5 Metering (percentage of customers billed have validated water meters less than 5 years old)		%	10.00	2009	Inspection visits and progress reports	Procure ment of meters has been eliminat ed from the Project	P								70.00
	P(a)						10.00	10.00	15.00	40.00	70.00	70.00	70.00	70.00	
	A								10.00	10.00	10.00				
1.6 Water turbidity (percentage of non-compliant turbidity samples in a month) at Bowmanston Well		%	40.00	2009	Inspection visits and progress reports	TBD; depend ent on assess ment and rehabilit ation works on Bowman ston Well, which is in progress .	P								10.00
	P(a)						40.00	40.00	30.00	20.00	20.00	20.00	20.00	20.00	
	A								40.00	40.00	40.00				
1.7 Water disinfection (non-compliant samples in a month)		%	40.00	2009	Inspection visits and progress reports	TBD; depend ent on upgrade of Chlirinati on system to be realized later in the project.	P								20.00
	P(a)						40.00	40.00	30.00	20.00	20.00	20.00	20.00	20.00	
	A								40.00	40.00	40.00				
1.8 Continuity (customers with no service available at some hours in a month)		%	70.00	2010	Inspection visits and progress reports	TBD; depend ent on improvm ents in equipme nt and operatio ns to be realized later in the project.	P								10.00
	P(a)						70.00	70.00	60.00	50.00	40.00	30.00	30.00	30.00	
	A								70.00	70.00	70.00				
1.9 Pressure (percentage of customers with water pressure below BWA standards per month, i.e. 25psi)		%	70.00	2011	Inspection visits and progress reports	TBD; depend ent on improvm ents in equipme nt and operatio ns to be realized later in the project.	P								20.00
	P(a)						70.00	70.00	60.00	50.00	35.00	20.00	20.00	20.00	
	A								70.00	70.00	70.00				
1.10 Financing for Wastewater Treatment Action Plan in place		financing	0.00	2009	Progress reports	Schedul ed to start in 2013	P								100.00
	P(a)							0.00	0.00	0.00	0.00	1.00		1.00	
	A									0.00	0.00				

1.11 Households with upgraded water supply	 RF	Household s	0.00	2011	Progress reports	TBD; dependent on improvements in equipment and operations to be realized later in the project.	P								20,000.00
							P(a)		0.00	0.00	20.00	80.00	19,900.00		20,000.00
							A				0.00	0.00			

Outcome:	2 Improved management of Barbados' water resources														
Observation:	The Project will, in May 2012, complete one year since eligibility for disbursements. Based on the Revised Project Execution Plan presented in the 2012 Annual Operating Plan the Executing Agency requested and the Bank has approved a one year extension to t														

Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	2010	2011	2012	2013	2014	2015	2016	EOP
2.1 Strategic Plan for management of Barbados' water resources approved by all stakeholders		Strategic Plan	0.00	2009	Inspection visits and progress reports	Status to be confirmed by the Ministry	P							1.00
							P(a)		0.00	0.00	0.00	1.00		1.00
							A				0.00	0.00		

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Outputs: Annual Physical and Financial Progress

Reorganization and modernization of the BWA		Physical Progress			Financial Progress		
Outputs	Unit of Measure		2014	EOP		2014	EOP
Barbados Water Authority corporate business plan prepared for implementation	Plan	P	0.00	1.00	P	1,026,667.00	3,850,001.00
		P(a)	0.00	1.00	P(a)	669,000.00	3,850,000.00
		A	0.00	0.00	A	230,000.00	230,000.00
Information technology (IT) systems integrated	IT System	P	0.00	1.00	P	2,304,000.00	7,505,000.00
		P(a)	0.00	1.00	P(a)	2,304,000.00	7,505,000.00
		A	0.00	0.00	A	2,179,000.00	2,371,000.00
Public campaign adopted	campaign	P		1.00	P		100,000.00
		P(a)		1.00	P(a)	90,000.00	100,000.00
		A		1.00	A	3,000.00	13,000.00
Rehabilitation of potable water supply		Physical Progress			Financial Progress		
Outputs	Unit of Measure		2014	EOP		2014	EOP
Meters replaced and installed	meter	P	32,930.00	98,800.00	P	3,254,838.00	11,148,485.00
		P(a)		0.00	P(a)		60,000.00
		A	0.00	0.00	A	0.00	60,000.00
NRW Program implemented - Water distribution mains replaced	km	P	45.00	123.00	P	4,379,961.00	14,720,000.00
		P(a)	10.00	49.00	P(a)	4,379,961.00	16,888,500.00
		A	0.00	0.00	A	1,175,000.00	6,975,770.00
Water facilities (power generators, pumps, Chlorination equipment, well) upgraded	facility	P	1.00	4.00	P	2,880,000.00	10,880,000.00
		P(a)	1.00	4.00	P(a)	2,880,000.00	7,262,500.00
		A	0.00	0.00	A	2,173,000.00	2,269,000.00
District meters installed	meter	P		0.00	P		0.00
		P(a)		75.00	P(a)	64,000.00	550,000.00
		A	0.00	0.00	A	0.00	55,000.00
Wastewater treatment action plan and upgrades		Physical Progress			Financial Progress		
Outputs	Unit of Measure		2014	EOP		2014	EOP
Wastewater treatment action plan prepared and financing plan in place	Plan	P		1.00	P	1,000,000.00	1,500,000.00
		P(a)		1.00	P(a)	88,000.00	1,500,000.00
		A	0.00	0.00	A	92,000.00	92,000.00
South Coast emergency by-pass and odor control system improved	System	P	1.00	1.00	P	150,000.00	1,100,000.00
		P(a)	1.00	1.00	P(a)	1,124,000.00	1,134,000.00
		A	0.00	0.00	A	0.00	10,000.00
Other Costs		Physical Progress			Financial Progress		
Outputs	Unit of Measure		2014	EOP		2014	EOP
Project Execution Unit (Counterpart), Contingency, and Financial Charges	Cost	P			P	1,200,000.00	5,300,000.00
		P(a)			P(a)	0.00	1,399,660.00
		A			A		1,399,660.00
Other Cost					2014	Cost	
Project Execution Unit (Counterpart), Contingency, and Financial Charges				P			
				P(a)	\$1,168,000.00	\$7,350,000.00	
				A	\$640,000.00	\$2,458,576.00	
Total Cost					2014	Total Cost	
				P	\$16,195,466.00	\$56,103,486.00	
				P(a)	\$12,766,961.00	\$28,593,160.00	

	A	\$6,492,000.00	\$15,934,006.00
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Changes to the Matrix

Section	Name	Type of Change	Reasons	Entered in the System	Agreed with Executing Agency
Impact	Rehabilitation of Potable Water Supply to support sustainability of the service	Create Impact	Inclusion of Impact Indicators as per Semestral report	10/15/2014	10/15/2014
Impact	N# of Production Meters replaced	Create Impact Indicator	Inclusion of Impact Indicators as per Semestral Report	10/15/2014	10/15/2014
Impact	NRW Program Implemented (Completion of relevant procurement).	Create Impact Indicator	Inclusion of Impact Indicators as per Semestral Report	10/15/2014	10/15/2014
Outcome	Customers qualifying BWA's services as good or very good	Update Baseline and/or Baseline Year (when there was a previous value)	Baseline was actually established in 2012 at 70% - the corresponding information was included.	10/15/2014	10/15/2014

Please note that the Overall Stage represents the stage of the operation at the time of this report's publication, which might not necessarily match the stage of the operation during the PMR Cycle to which the report pertains.