

PMR Operational Report

Operation Number	BH-L1028	Chief of Operations Validation Date	03/31/17
Year- PMR Cycle	Second period Jan-Dec 2016	Division Chief Validation Date	04/04/17
Last Update	03/23/17	Country Representative Validation Date	04/18/17
PMR Validation Stage	Validated by Representative		

Basic Data

Operation Profile

Operation Name	WSC Support Program - New Providence Water Supply and Sanitation Systems Upgrade	Loan Number	2624/OC-BH
Executing Agency	WATER AND SEWERAGE CORPORATION / MINISTRY OF WORKS	Sector/Subsector	AS - WATER AND SANITATION
Team Leader	MELLINGER,YVON	Overall Stage	Disbursing (From eligibility until all the Operations are closed)
Operation Type	Loan Operation	Country	BAHAMAS
Lending Instrument	Investment Loan	Convergence related Operation(s)	
Borrower	WATER AND SEWERAGE CORPORATION / MINISTRY OF WORKS		

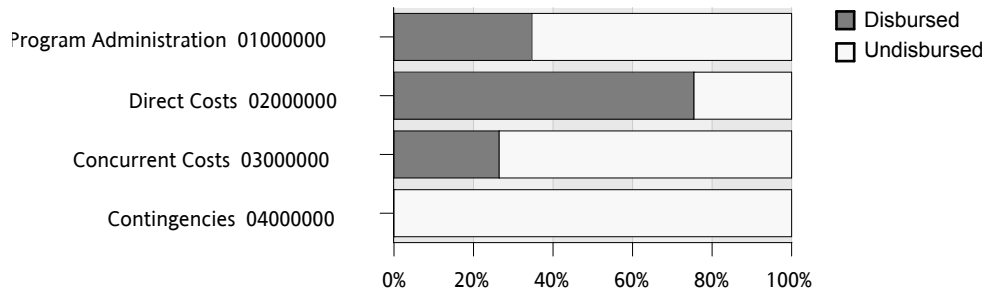
Environmental and Social Safeguards

Impacts Category	B	Was/Were the objective(s) of this operation reformulated?	NO
Safeguard Performance Rating		Date of approval	
Safeguard Performance Rating - Rationale			

Financial Data

Item	Total Cost and Source					Available Funds (US\$)			
	Original IDB	Current IDB	Local Counterpart	Co-Financing / Country	Total Original Cost	Current IDB	Disb. Amount to Date	% Disb	Undisbursed Amount
BH-L1028	81,000,000	81,000,000	0	0	81,000,000	81,000,000	64,939,279.05	80.17%	16,060,720.95
Aggregated	81,000,000	81,000,000	0	0	81,000,000	81,000,000	64,939,279.05	80.17%	16,060,720.95

Expense Categories by Loan Contract (cumulative values)



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. Please also note that inactive indicators and outputs are not displayed; totals in the actual cost table may not match the sum of the cost of the outputs displayed, due to the cost of inactive outputs.

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RESULTS MATRIX

IMPACTS

Impact Nbr. 1: A Financially viable Water and Sewerage Corporation (WSC).

Observation: The WSC and GOBH are committed to achieving the Project objectives

Indicator	Unit of Measure	Baseline	Baseline Year		2012	2013	2014	2015	2016	2017	2018	EOP 2018
1.1	Water and Sewerage Corporation (WSC) operating cost recovery (Revenues Collected/Operating Cost)	%	61.0	2011	P	61.00	65.00	70.00	75.00	80.00		80.00
					P(a)	61.00	65.00	70.00	75.00	80.00	80.00	80.00
					A	60.00	56.00	60.00	68.00	69.00		

Details

Means of verification: WSC Annual Audited Financial Statements

Observations: % as proportion of Revenue collected/operating Cost

Pro-Gender	No	Pro-Ethnicity	No
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Indicator	Unit of Measure	Baseline	Baseline Year		2012	2013	2014	2015	2016	2017	2018	EOP 2018
1.2	Increase in number of active (water) connections	Connections	60099.0	2011	P	1,000.00	2,000.00	2,000.00	2,000.00	2,000.00		75,000.00
					P(a)	1,000.00	2,000.00	2,000.00	2,500.00	1,500.00	2,500.00	70,000.00
					A	1,375.00	1,523.00	500.00	692.00	1,119.00		

Details

Means of verification: This indicator will be measured through WSC commercial registry. Baseline has been updated to 2010.

Observations: Through project activities, number of active connection is expected to increase substantially, which will be instrumental in reaching this Country Strategy indicator.

Pro-Gender	No	Pro-Ethnicity	No
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Impact Nbr. 2: Establishment of an economic and environmental regulator to regulate the activities of the Water and Sewerage Corporation (WSC)

Observation: At the start of the project, the GOBH is committed and ready to make important steps in the right direction, as confirmed by the project conditions prior

Indicator	Unit of Measure	Baseline	Baseline Year		2012	2013	2014	2015	2016	2017	2018	EOP 2018
2.1	Regulatory functions are separated from the provision of services	Law approved	0.0	2011	P	0.00	0.00	1.00	0.00	0.00		1.00
					P(a)	0.00	0.00	1.00	0.00	0.00	0.00	1.00
					A			0.00	0.00	0.00		

Details

Means of verification: Law promulgated.

Observations: Economic regulation is separated from WSC.

Pro-Gender	No	Pro-Ethnicity	No
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RESULTS MATRIX

OUTCOMES

Outcome Nbr. 1: Non Revenue Water (NRW) reduced

Observation: Volume of NRW is calculated as yearly average, this important indicator is showing better results than those envisaged initially.

Indicator		Unit of Measure	Baseline	Baseline Year		2012	2013	2014	2015	2016	2017	2018	EOP 2018
1.1	Volume of Non Revenue Water NRW (average daily volume)	Million Imperial Gallons	6.87	2012	P	5.30	4.70	4.00	3.30	2.50			2.50
					P(a)	5.30	6.00	5.50	4.30	2.80	2.50	2.25	2.25
					A	6.50	6.49	4.53	3.05	2.80			

Details

Means of verification: WSC approved water balance from contractor report

Pro-Gender	No	Pro-Ethnicity	No
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Indicator		Unit of Measure	Baseline	Baseline Year		2012	2013	2014	2015	2016	2017	2018	EOP 2018
1.2	Households with improved access to drinking water in house (better pressure, quality and volume)	Households (#)	0.0	2011	P	0.00	5,000.00	10,000.00	10,000.00	13,000.00			38,000.00
					P(a)	0.00	3,000.00	8,000.00	6,000.00	5,000.00	8,000.00	8,430.00	38,000.00
					A			0.00	0.00	21,570.00			

Details

Means of verification: WSC commercial and technical reports

Pro-Gender	No	Pro-Ethnicity	No
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	Afro-descendant				P								
					P(a)								
					A								
	Indigenous				P								
					P(a)								
					A								

Indicator		Unit of Measure	Baseline	Baseline Year		2012	2013	2014	2015	2016	2017	2018	EOP 2018
1.3	Households with new access to drinking water in house	Households (#)	0.0	2011	P	0.00	0.00	0.00	500.00	1,500.00			2,000.00
					P(a)	0.00	0.00	0.00	0.00	1,000.00	513.00	500.00	3,000.00
					A			0.00	1,112.00	875.00			

Details

Means of verification: WSC commercial reports

Pro-Gender	No	Pro-Ethnicity	No
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RESULTS MATRIX

OUTCOMES

	Afro-descendant				P								
					P(a)								
					A								0.00
	Indigenous				P								
					P(a)								
					A								

Indicator		Unit of Measure	Baseline	Baseline Year		2012	2013	2014	2015	2016	2017	2018	EOP 2018
1.4	Households changing from using private individual wells to becoming clients of the Water and Sewerage Corporation (WSC)	Households	0.0	2011	P	500.00	500.00	1,000.00	1,000.00	2,000.00			5,000.00
					P(a)	500.00	500.00	500.00	400.00	500.00	1,500.00	2,546.00	5,000.00
					A	102.00	54.00	67.00	166.00	565.00			

Details

Means of verification: Socioeconomic surveys

Pro-Gender	No	Pro-Ethnicity	No
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Outcome Nbr. 2: Water and Sewerage Corporation (WSC) strengthened

Observation:

Indicator		Unit of Measure	Baseline	Baseline Year		2012	2013	2014	2015	2016	2017	2018	EOP 2018
2.1	Annual amount spent on staff overtime	US\$	109000.0	2011	P	109,000.00	103,550.00	98,100.00	87,200.00	81,750.00			81,750.00
					P(a)	109,000.00	105,000.00	98,100.00	87,200.00	81,750.00	75,000.00	75,000.00	75,000.00
					A	113,107.00	112,421.00	98,750.00	79,650.00	80,144.00			

Details

Means of verification: WSC HR report

Observations: SCADA will eliminate need for staff to visit stations/facilities outside normal working hours, and improve response to failures

Pro-Gender	No	Pro-Ethnicity	No
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Indicator		Unit of Measure	Baseline	Baseline Year		2012	2013	2014	2015	2016	2017	2018	EOP 2018
2.2	Win-back customers (households reconnected)	Households	0.0	2011	P	0.00	0.00	0.00	500.00	1,500.00			2,000.00
					P(a)	0.00	0.00	0.00		500.00	700.00	569.00	2,000.00
					A			0.00	0.00	731.00			

Details

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RESULTS MATRIX

OUTCOMES

Means of verification: WSC commercial report

Pro-Gender		No	Pro-Ethnicity					No					
Indicator		Unit of Measure	Baseline	Baseline Year		2012	2013	2014	2015	2016	2017	2018	EOP 2018
2.3	Large commercial customers billed in accordance to metered consumption	%	84.0	2011	P	84.00	90.00	95.00	98.00	98.00			98.00
					P(a)	84.00	85.00	90.00	95.00	95.00	98.00	98.00	98.00
					A	87.00	85.00	93.00	89.00	94.00			

Details

Means of verification: WSC Commercial Report

Pro-Gender		No	Pro-Ethnicity		No
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Outcome Nbr. 3: Wastewater treatment plants are upgraded and wastewater treatment action plan prepared

Observation:

Indicator	Unit of Measure	Baseline	Baseline Year		2012	2013	2014	2015	2016	2017	2018	EOP 2018
3.1	Households connected to an improved sanitation network	Households (#)	0.0	2011	P	0.00	4,000.00	6,000.00	8,662.00	8,662.00		8,662.00
					P(a)	0.00	0.00	2,000.00	0.00	500.00	3,500.00	8,662.00
					A			0.00	0.00	0.00		

Details

Means of verification: WSC technical reports

Pro-Gender	No	Pro-Ethnicity				No							
	Afro-descendant				P								
					P(a)								
					A								
	Indigenous				P								
					P(a)								
					A								

Indicator	Unit of Measure	Baseline	Baseline Year		2012	2013	2014	2015	2016	2017	2018	EOP 2018
3.2	Wastewater flow (million imperial gallons (MIG)) treated daily	Million Imperial Gallons	2.1	2011	P	2.10	2.60	3.60	5.60	6.50		6.50
					P(a)	2.10	2.10	3.00	2.20	3.20	2.20	6.50
					A	2.10	2.25	2.20	2.20	2.20		

Details

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RESULTS MATRIX

OUTCOMES

Means of verification: WSC technical reports

Pro-Gender	No	Pro-Ethnicity	No
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Indicator	Unit of Measure	Baseline	Baseline Year		2012	2013	2014	2015	2016	2017	2018	EOP 2018
3.3	Households with treated wastewater	Households (#)	62491.0	2011	P							
					P(a)			1,073.00	62,491.00	64,000.00	62,491.00	67,000.00
					A			62,491.00	62,491.00	62,670.00		

Details

Means of verification: WSC semi annual report, Consultant's Reports.

Observations: The baseline and projections have been estimated assuming that only 36% of the volume of water treated by wastewater treatment plants corresponds to households (the balance corresponds to commercial connections). The information will be confirmed and validated once the Waste water Master Plan is completed. In addition, the baseline includes households with septic tanks (i.e. primary treatment).

Pro-Gender	No	Pro-Ethnicity	No
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Outcome Nbr. 4: Legal and regulatory framework upgraded

Observation: Draft legislation under review.

Indicator	Unit of Measure	Baseline	Baseline Year		2012	2013	2014	2015	2016	2017	2018	EOP 2018
4.1	Water and Sewerage Corporation (WSC) licence from economic regulator	Licence	0.0	2011	P	0.00	0.00	0.00	1.00	0.00		1.00
					P(a)	0.00	0.00	0.00		0.00	1.00	1.00
					A			0.00	0.00	0.00		

Details

Means of verification: License issued

Pro-Gender	No	Pro-Ethnicity	No
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Indicator	Unit of Measure	Baseline	Baseline Year		2012	2013	2014	2015	2016	2017	2018	EOP 2018
4.2	Water and Sewerage Corporation (WSC) licence from environmental regulator	Licence	0.0	2011	P	0.00	0.00	0.00	1.00	0.00		1.00
					P(a)	0.00	0.00	0.00		0.00	1.00	1.00
					A			0.00	0.00	0.00		

Details

Means of verification: Licence issued

Pro-Gender	No	Pro-Ethnicity	No
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RESULTS MATRIX

OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

Component Nbr. 1 Non Revenue Water (NRW) Reduced

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2016	EOP 2018	2016	EOP 2018
1.1	Non Revenue Water strategy developed (including baseline study)	Strategy	P		1		3,000,000
			P(a)		1		3,000,000
			A		1		3,000,000
1.2	Service connections replaced, maintained or disconnected	Connections	P	7,000	23,000	4,100,000	13,500,000
			P(a)	2,400	23,000	0	15,400,000
			A	1,970	21,528	1,770,672	15,270,672
1.3	Leaks detected and repaired	Leaks	P	1,500	6,000	7,600,000	30,000,000
			P(a)	960	6,000	0	31,100,000
			A	862	5,234	688,594	30,688,594
1.4	Non Revenue Water (NRW) asset management information system developed	System	P		1		2,000,000
			P(a)		1		2,000,000
			A		1		2,000,000
1.5	Training workshops on Non Revenue Water (NRW) management	workshops	P	10	10	100,000	500,000
			P(a)	5	10	0	500,000
			A	0	2	0	500,000

Component Nbr. 2 Water and Sewerage Corporation (WSC) Strengthened

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2016	EOP 2018	2016	EOP 2018
2.1	Supervisory Control And Data Acquisition (SCADA) system purchased and installed	System	P		1		1,000,000
			P(a)		0		1,000,000
			A		1		1,000,000
2.2	Automated meters reading/intelligence system for large commercial customers installed	System	P		3,000		500,000
			P(a)	0	3,000	500,000	500,000
			A	0	0	0	0
2.3	Public relations campaign for project and customer win-back campaign implemented	Campaign	P		2	300,000	1,500,000
			P(a)	1	2	255,842	1,699,999
			A	1	1	408,217	1,121,583
2.4	New organizational structure implemented (including staff training)	Structure	P		1		2,000,000
			P(a)	1	1	205,766	1,233,900
			A	0	0	244,180	991,389
2.5	Tariff study for economic regulation prepared	Study	P		1		500,000
			P(a)	1	1	24,495	244,950
			A	1	1	24,495	244,950

RESULTS MATRIX

OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

Component Nbr. 3 Wastewater treatment plants upgraded and wastewater treatment action plan prepared

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2016	EOP 2018	2016	EOP 2018
3.1	Lift stations rehabilitated/upgraded	Lift stations	P	10	60	160,000	950,000
			P(a)	4	10	500,000	886,377
			A	0	0	0	0
3.2	Collection systems and force mains rehabilitated/installed	Miles	P	1	4	850,000	3,850,000
			P(a)	0	2	1,000,000	1,500,000
			A	0	0	0	0
3.3	Wastewater master plan for New Providence prepared	Plan	P		1		780,000
			P(a)		1	150,959	1,132,314
			A	0	1	155,207	1,078,673
3.4	Wastewater infrastructure (treatment plants and disposal wells) rehabilitated or constructed	Infrastructure	P	3	9	2,500,000	10,000,000
			P(a)	0	5	2,100,000	15,198,870
			A	0	0	0	0

Component Nbr. 4 Legal and regulatory framework upgraded

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2016	EOP 2018	2016	EOP 2018
4.1	Draft legislation presented	Legislation	P		2		250,000
			P(a)		2	204,536	250,000
			A		2	0	12,472
4.2	Regulators established	Regulators	P		2	600,000	2,750,000
			P(a)	0	2	500,000	1,250,000
			A	0	0	0	0

Other Cost

	Audits		P			24,000	120,000
			P(a)			9,000	38,853
			A			8,939	32,363
	Contingencies		P			1,040,000	3,120,000
			P(a)			1,420,000	0
			A			0	0
	Engineering and supervisory services		P			400,000	1,820,000
			P(a)			261,150	1,510,106
			A			86,150	641,944
	Financial charges		P			480,000	2,400,000
			P(a)			600,000	2,400,000
			A			586,432	1,833,829
	Monitoring and Evaluation		P			222,000	460,000
			P(a)			0	154,631
			A			0	129,631

Total Cost

	Total Cost		P			18,376,000	81,000,000
			P(a)			7,731,748	81,000,000
			A			3,972,886	58,546,100

CHANGES TO THE MATRIX

No information available for this section