

PMR Operational Report

Operation Number	BH-L1028	Chief of Operations Validation Date	04/12/19
Year- PMR Cycle	Second period Jan-Dec 2018	Division Chief Validation Date	04/15/19
Last Update	04/12/19	Country Representative Validation Date	05/07/19
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	WILK, DAVID	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		

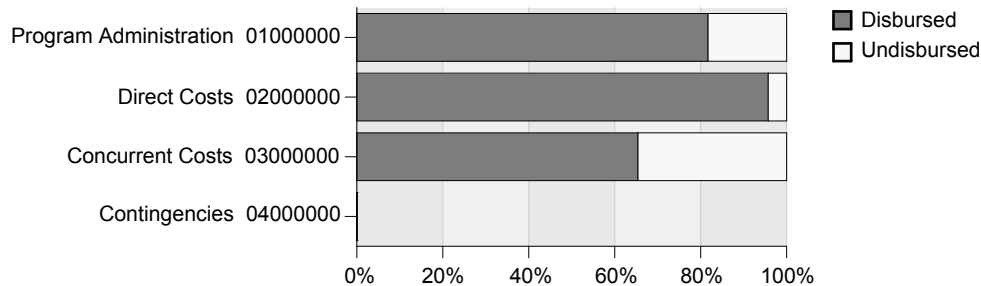
Environmental and Social Safeguards

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	80,925,000	99.91%	75,000
Aggregated	81,000,000	81,000,000	0	0	81,000,000	81,000,000	80,925,000	99.91%	75,000

Expense Categories by Loan Contract (cumulative values)



Please 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 2019
1.1	Water and Sewerage Corporation (WSC) operating cost recovery (Revenues Collected/Operating Cost)	%	61.00	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	80.00	

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 2019
1.2	Increase in number of active (water) connections	Connections	60,099.00	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	2,500.00	

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 2019
2.1	Regulatory functions are separated from the provision of services	Law approved	0.00	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	1.00	1.00
					A			0.00	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	2019	EOP 2019
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	0.00	0.00		

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	2019	EOP 2019
1.2	Households with improved access to drinking water in house (better pressure, quality and volume)	Households (#)	0.00	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	20,000.00		38,000.00
					A			0.00	0.00	21,570.00	21,520.00	0.00		

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	2019	EOP 2019
1.3	Households with new access to drinking water in house	Households (#)	0.00	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	1,000.00		3,000.00
					A			0.00	1,112.00	875.00	1,000.00	0.00		

Details

Means of verification: WSC commercial reports

Pro-Gender	No	Pro-Ethnicity	No
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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	2019	EOP 2019
1.4	Households changing from using private individual wells to becoming clients of the Water and Sewerage Corporation (WSC)	Households	0.00	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	1,500.00		5,000.00
					A	102.00	54.00	67.00	166.00	565.00	1,500.00	0.00		

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	2019	EOP 2019
2.1	Annual amount spent on staff overtime	US\$	109,000.00	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	75,000.00	0.00		

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	2019	EOP 2019
2.2	Win-back customers (households reconnected)	Households	0.00	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	1,000.00	0.00		

Details

Means of verification: WSC commercial report

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OUTCOMES

Pro-Gender		No	Pro-Ethnicity					No						
Indicator		Unit of Measure	Baseline	Baseline Year		2012	2013	2014	2015	2016	2017	2018	2019	EOP 2019
2.3	Large commercial customers billed in accordance to metered consumption	%	84.00	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	98.00	0.00		
Details														
Means of verification: WSC Commercial Report														
Pro-Gender		No	Pro-Ethnicity					No						

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	2019	EOP 2019
3.1	Households connected to an improved sanitation network	Households (#)	0.00	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	2,662.00		8,662.00
					A			0.00	0.00	0.00	3,500.00	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	2019	EOP 2019
3.2	Wastewater flow (million imperial gallons (MIG)) treated daily	Million Imperial Gallons	2.10	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	6.50
					A	2.10	2.25	2.20	2.20	2.20	4.50	0.00	

Details													
Means of verification: WSC technical reports													

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RESULTS MATRIX

OUTCOMES

Pro-Gender		No		Pro-Ethnicity				No						
Indicator		Unit of Measure	Baseline	Baseline Year		2012	2013	2014	2015	2016	2017	2018	2019	EOP 2019
3.3	Households with treated wastewater	Households (#)	62,491.00	2011	P									
					P(a)			1,073.00	62,491.00	64,000.00	62,491.00	67,000.00		67,000.00
					A			62,491.00	62,491.00	62,670.00	65,500.00	0.00		
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						

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	2019	EOP 2019
4.1	Water and Sewerage Corporation (WSC) licence from economic regulator	Licence	0.00	2011	P	0.00	0.00	0.00	1.00	0.00				1.00
					P(a)	0.00	0.00	0.00		0.00	0.00	1.00		1.00
					A			0.00	0.00	0.00	0.00	0.00		
Details														
Means of verification: License issued														
Pro-Gender		No	Pro-Ethnicity		No									
Indicator		Unit of Measure	Baseline	Baseline Year		2012	2013	2014	2015	2016	2017	2018	2019	EOP 2019
4.2	Water and Sewerage Corporation (WSC) licence from environmental regulator	Licence	0.00	2011	P	0.00	0.00	0.00	1.00	0.00				1.00
					P(a)	0.00	0.00	0.00		0.00	0.00	1.00		1.00
					A			0.00	0.00	0.00	0.00	0.00		
Details														
Means of verification: Licence issued														
Pro-Gender		No	Pro-Ethnicity		No									

RESULTS MATRIX

OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

Component Nbr. 1 Non Revenue Water (NRW) Reduced

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2018	EOP 2019	2018	EOP 2019
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		23,000		13,500,000
			P(a)	452	22,558		12,950,000
			A	0	22,106		12,820,672
1.3	Leaks detected and repaired	Leaks	P		6,000		30,000,000
			P(a)	274	6,189		31,100,000
			A	0	5,915	1,603,722	32,292,316
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		500,000
			P(a)	10	12		500,000
			A	0	2		500,000

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

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2018	EOP 2019	2018	EOP 2019
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)	3,000	3,000		500,000
			A	0	0		0
2.3	Public relations campaign for project and customer win-back campaign implemented	Campaign	P		2		1,500,000
			P(a)	1	2	25,385	1,699,999
			A	0	1	0	1,674,614
2.4	New organizational structure implemented (including staff training)	Structure	P		1		2,000,000
			P(a)	1	1		1,233,900
			A	0	0		1,233,900
2.5	Tariff study for economic regulation prepared	Study	P		1		500,000
			P(a)		1		244,950
			A		1		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	
				2018	EOP 2019	2018	EOP 2019
3.1	Lift stations rehabilitated/upgraded	Lift stations	P		60		950,000
			P(a)	1	11	575,776	886,377
			A	0	10	335,598	646,199
3.2	Collection systems and force mains rehabilitated/installed	Miles	P		4		3,850,000
			P(a)	1	2	500,000	1,000,000
			A	1	2	292,500	792,500
3.3	Wastewater master plan for New Providence prepared	Plan	P		1		780,000
			P(a)		1		1,132,314
			A		1		1,100,069
3.4	Wastewater infrastructure (treatment plants and disposal wells) rehabilitated or constructed	Infrastructure	P		9		10,000,000
			P(a)	7	5	11,198,870	14,044,965
			A	5	5	7,210,220	10,056,315

Component Nbr. 4 Legal and regulatory framework upgraded

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2018	EOP 2019	2018	EOP 2019
4.1	Draft legislation presented	Legislation	P		2		250,000
			P(a)		2	130,271	250,000
			A		2	0	119,729
4.2	Regulators established	Regulators	P		2		2,750,000
			P(a)	2	2	1,250,000	1,250,000
			A	0	0	0	0

Component Nbr. 5 Management, contingencies and others

	Output	Unit of Measure		PHYSICAL PROGRESS	FINANCIAL PROGRESS
				EOP	EOP
5.			P		
			P(a)		
			A		

Other Cost

Engineering and supervisory services	P				1,820,000
	P(a)			559,652	1,308,827
	A			502,277	1,251,452
Audits	P				120,000
	P(a)			9,000	50,339
	A			11,621	52,960
Monitoring and Evaluation	P				460,000
	P(a)			25,000	154,631
	A			230,511	360,142
Contingencies	P				3,120,000
	P(a)			0	0
	A			0	0
Financial charges	P				2,400,000
	P(a)				2,400,000
	A				1,844,550

Total Cost

	Total Cost	P				81,000,000
		P(a)			14,273,954	76,706,302
		A			10,186,449	70,990,368

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CHANGES TO THE MATRIX

Section	Name	Reasons	Type of Change	Subtype	Modified By	Entered in the System
Output	Service connections replaced, maintained or disconnected	The achievement in 2019 had to be reported as 2018 achievement because the operation is closing in April 2019	Modify Output	Modify Financial Historical Actual	SYRETAR	04/12/2019
				Modify Financial P(a) value	SYRETAR	04/12/2019
	Wastewater infrastructure (treatment plants and disposal wells) rehabilitated or constructed	The achievement in 2019 had to be reported as 2018 achievement because the operation is closing in April 2019	Modify Output	Modify Physical P(a) value	SYRETAR	04/12/2019

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IMPLEMENTATION STATUS AND LEARNING

Lesson Learned - Categories

Acquisitions and Procurement - Bidding Stage