

# PMR Operational Report

<b>Operation Number</b>	BH-L1028	<b>Chief of Operations Validation Date</b>	04/06/18
<b>Year- PMR Cycle</b>	Second period Jan-Dec 2017	<b>Division Chief Validation Date</b>	04/09/18
<b>Last Update</b>	04/06/18	<b>Country Representative Validation Date</b>	04/09/18
<b>PMR Validation Stage</b>	Validated by Representative		

## Basic Data

### Operation Profile

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

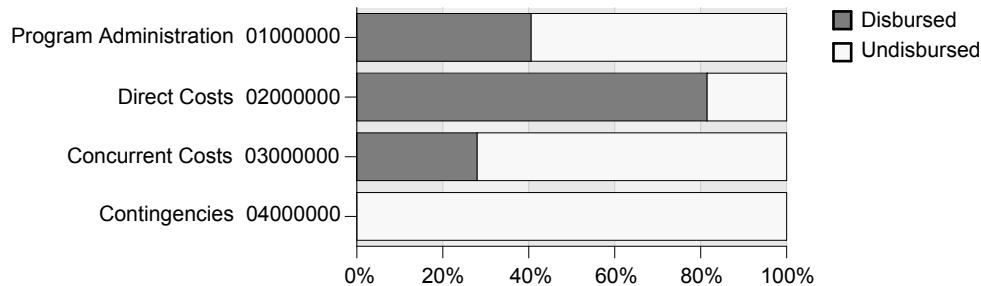
## Environmental and Social Safeguards

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

## 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	71,950,000	88.83%	9,050,000
Aggregated	81,000,000	81,000,000	0	0	81,000,000	81,000,000	71,950,000	88.83%	9,050,000

## 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.

## PMR Operational Report

### 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)	%	61.00	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

<b>Pro-Gender</b>	No	<b>Pro-Ethnicity</b>	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	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.

<b>Pro-Gender</b>	No	<b>Pro-Ethnicity</b>	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	0.00	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.

<b>Pro-Gender</b>	No	<b>Pro-Ethnicity</b>	No
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## PMR Operational Report

### 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	0.00		

#### Details

**Means of verification:** WSC approved water balance from contractor report

<b>Pro-Gender</b>	No	<b>Pro-Ethnicity</b>	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 (#)	0.00	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		

#### Details

**Means of verification:** WSC commercial and technical reports

<b>Pro-Gender</b>	No	<b>Pro-Ethnicity</b>	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 (#)	0.00	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		

#### Details

**Means of verification:** WSC commercial reports

<b>Pro-Gender</b>	No	<b>Pro-Ethnicity</b>	No
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## PMR Operational Report

### 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	0.00	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		

#### Details

**Means of verification:** Socioeconomic surveys

<b>Pro-Gender</b>	No	<b>Pro-Ethnicity</b>	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\$	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		

#### 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

<b>Pro-Gender</b>	No	<b>Pro-Ethnicity</b>	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	0.00	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		

#### Details

## PMR Operational Report

### 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	%	84.00	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		

#### 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 (#)	0.00	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	8,662.00
					A			0.00	0.00	0.00	3,500.00	

#### 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	2.10	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
					A	2.10	2.25	2.20	2.20	2.20	4.50	

#### Details

## PMR Operational Report

### RESULTS MATRIX

#### OUTCOMES

**Means of verification:** WSC technical reports

Pro-Gender		No	Pro-Ethnicity					No					
Indicator		Unit of Measure	Baseline	Baseline Year		2012	2013	2014	2015	2016	2017	2018	EOP 2018
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		

#### 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).

<b>Pro-Gender</b>		No	<b>Pro-Ethnicity</b>		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	0.00	2011	P	0.00	0.00	0.00	1.00	0.00		1.00
					P(a)	0.00	0.00	0.00		0.00	1.00	1.00
					A			0.00	0.00	0.00		

#### Details

**Means of verification:** License issued

<b>Pro-Gender</b>		No	<b>Pro-Ethnicity</b>		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	0.00	2011	P	0.00	0.00	0.00	1.00	0.00		1.00
					P(a)	0.00	0.00	0.00		0.00	1.00	1.00
					A			0.00	0.00	0.00		

#### Details

**Means of verification:** Licence issued

<b>Pro-Gender</b>		No	<b>Pro-Ethnicity</b>		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	
				2017	EOP 2018	2017	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		23,000		13,500,000
			P(a)	1,472	22,558	129,328	15,400,000
			A	578	22,106	0	15,270,672
1.3	Leaks detected and repaired	Leaks	P		6,000		30,000,000
			P(a)	766	6,189	411,406	31,100,000
			A	681	5,915	0	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		500,000
			P(a)	6	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	
				2017	EOP 2018	2017	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)	3,000	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		1,500,000
			P(a)	1	2	450,000	1,699,999
			A	0	1	553,031	1,674,614
2.4	New organizational structure implemented (including staff training)	Structure	P		1		2,000,000
			P(a)	1	1	242,511	1,233,900
			A	0	0	242,511	1,233,900
2.5	Tariff study for economic regulation prepared	Study	P		1		500,000
			P(a)		1	0	244,950
			A		1	0	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	
				2017	EOP 2018	2017	EOP 2018
3.1	Lift stations rehabilitated/upgraded	Lift stations	P		60		950,000
			P(a)	10	11	300,000	886,377
			A	10	10	310,601	310,601
3.2	Collection systems and force mains rehabilitated/installed	Miles	P		4		3,850,000
			P(a)	1	2	1,000,000	1,000,000
			A	1	1	500,000	500,000
3.3	Wastewater master plan for New Providence prepared	Plan	P		1		780,000
			P(a)		1	53,641	1,132,314
			A		1	21,396	1,100,069
3.4	Wastewater infrastructure (treatment plants and disposal wells) rehabilitated or constructed	Infrastructure	P		9		10,000,000
			P(a)	2	7	4,000,000	14,044,965
			A	0	0	2,846,095	2,846,095

#### Component Nbr. 4 Legal and regulatory framework upgraded

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2017	EOP 2018	2017	EOP 2018
4.1	Draft legislation presented	Legislation	P		2		250,000
			P(a)		2	0	250,000
			A		2	107,257	119,729
4.2	Regulators established	Regulators	P		2		2,750,000
			P(a)	0	2	0	1,250,000
			A	0	0	0	0

#### Other Cost

	Engineering and supervisory services		P				1,820,000
			P(a)			300,000	1,308,827
			A			107,231	749,175
	Audits		P				120,000
			P(a)			6,000	50,339
			A			8,976	41,339
	Monitoring and Evaluation		P				460,000
			P(a)			0	154,631
			A			0	129,631
	Contingencies		P				3,120,000
			P(a)			0	0
			A			0	0
	Financial charges		P				2,400,000
			P(a)			566,171	2,400,000
			A			10,721	1,844,550

#### Total Cost

	Total Cost		P				81,000,000
			P(a)			7,959,057	79,156,302
			A			4,707,819	63,253,919



### CHANGES TO THE MATRIX

No information available for this section