

PMR Operational Report

Operation Number	TT-L1026	Chief of Operations Validation Date	10/12/18
Year- PMR Cycle	First period Jan-Jun 2018	Division Chief Validation Date	
Last Update	10/10/18	Country Representative Validation Date	
PMR Validation Stage	Validated by Chief of Operations		

Basic Data

Operation Profile

Operation Name	Multi-Phase Wastewater Rehabilitation Program- Phase I	Loan Number	2890/OC-TT
Executing Agency	WATER AND SEWERAGE AUTHORITY	Sector/Subsector	AS-SAR - WATER AND SANITATION-SANITATION RURAL AND PERI-URBAN
Team Leader	CAYETANO, EVAN STEPHEN	Overall Stage	Disbursing (From eligibility until all the Operations are closed)
Operation Type	Loan Operation	Country	TRINIDAD AND TOBAGO
Lending Instrument	Investment Loan	Convergence related Operation(s)	
Borrower	TRINIDAD AND TOBAGO		

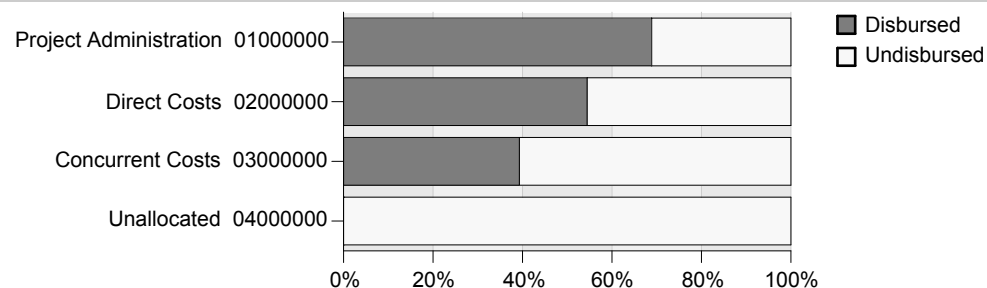
Environmental and Social Safeguards

Impacts Category	B	Was/Were the objective(s) of this operation reformulated?	NO
Safeguard Performance Rating	Partially Satisfactory	Date of approval	
Safeguard Performance Rating - Rationale	Satisfactory enforcement of E&S measures at WWTP construction sites.		

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
TT-L1026	246,500,000	246,500,000	0	0	246,500,000	246,500,000	172,680,416.7	70.05%	73,819,583.3
Aggregated	246,500,000	246,500,000	0	0	246,500,000	246,500,000	172,680,416.7	70.05%	73,819,583.3

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

No information available for this section

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RESULTS MATRIX

OUTCOMES

Outcome Nbr. 1: New wastewater treatment plants in San Fernando and Malabar functioning according to design

Observation:

Indicator		Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
1.1	Households with new connection to a sewerage network in pilot area (household)	Households (#)	0.00	2012	P	0.00	0.00	0.00	200.00	200.00				400.00
					P(a)	0.00	0.00	0.00	0.00	101.00	172.00			172.00
					A	0.00	0.00	0.00	0.00	0.00	0.00			0.00

Details

Means of verification: Completion certificate signed by construction supervisor and WASA; Semi-annual reports to IDB.

Pro-Gender No **Pro-Ethnicity** No

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

Indicator		Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
1.2	Households connected to an improved sewerage network in Malabar and San Fernando (household)	Households (#)	0.00	2012	P	0.00	0.00	0.00	0.00	16,626.00	0.00			16,626.00
					P(a)	0.00	0.00	0.00	0.00	0.00	16,626.00			16,626.00
					A	0.00	0.00	0.00	0.00	0.00	0.00			0.00

Details

Means of verification: Completion certificate signed by construction supervisor and WASA; Semi-annual reports to IDB.

Pro-Gender No **Pro-Ethnicity** No

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

Indicator	Unit of	Baseline	Baseline		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
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OUTCOMES

		Measure	Baseline	Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
1.3	Malabar: Percentage of population in the catchment covered by the WWTP (percentage)	%	0.00	2012	P	0.00	0.00	0.00	0.00	100.00	0.00			100.00
					P(a)	0.00	0.00	0.00	0.00	0.00	100.00			100.00
					A	0.00	0.00	0.00	0.00	0.00			0.00	

Details

Means of verification: WASA water quality monitoring reports (catchment area); Semi-annual reports to IDB.

Pro-Gender No **Pro-Ethnicity** No

		Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
1.4	San Fernando: Percentage of population in the catchment treated by the WWTP (percentage)	%	0.00	2012	P	0.00	0.00	0.00	0.00	100.00	0.00			100.00
					P(a)	0.00	0.00	0.00	0.00	0.00	100.00			100.00
					A	0.00	0.00	0.00	0.00	0.00			0.00	

Details

Means of verification: WASA water quality monitoring reports (catchment area); Semi-annual reports to IDB.

Pro-Gender No **Pro-Ethnicity** No

		Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
1.5	Malabar: Percentage of wastewater treated by the WWTP meeting the Water Pollution Rules (percentage) and having a zero or positive net impact on downstream water quality (in relation to upstream water quality)	%	0.00	2012	P	0.00	0.00	0.00	90.00	90.00	90.00	90.00		90.00
					P(a)	0.00	0.00	0.00	0.00	90.00	90.00	90.00		90.00
					A	0.00	0.00	0.00	0.00	0.00			0.00	

Details

Means of verification: WASA water quality monitoring reports (monitoring point at outfall site). The ESMP will specify the sampling points and the definition of a baseline.

Pro-Gender No **Pro-Ethnicity** No

		Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
1.6	San Fernando: Percentage of wastewater treated by the WWTP meeting the Water Pollution Rules (percentage) and having a zero or positive net impact on downstream water quality (in relation to upstream water quality)	%	0.00	2012	P	0.00	0.00	0.00	90.00	90.00	90.00	90.00		90.00
					P(a)	0.00	0.00	0.00	0.00	0.00	90.00	90.00		90.00
					A	0.00	0.00	0.00	0.00	0.00			0.00	

Details

Means of verification: WASA water quality monitoring reports (monitoring point at outfall site). The ESMP will specify the sampling points and the definition of a baseline.

Pro-Gender No **Pro-Ethnicity** No

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OUTCOMES

Indicator		Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
1.7	Women trained in water quality monitoring	%	0.00	2013	P	0.00	50.00	0.00	0.00	0.00	0.00	0.00		50.00
					P(a)	0.00	50.00	50.00	21.00	17.00	0.00		51.00	
					A	0.00	0.00	0.00	21.00	36.00			57.00	

Details

Means of verification: WASA monitoring reports

Pro-Gender	Yes	Pro-Ethnicity	No
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Indicator		Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
1.8	Households with treated wastewater	Households (#)	0.00	2013	P	0.00	0.00	0.00	200.00	16,826.00	17,026.00	17,026.00		17,026.00
					P(a)	0.00	0.00	0.00	0.00	0.00	17,026.00	17,026.00		17,026.00
					A	0.00	0.00	0.00	0.00	0.00	0.00		0.00	

Details

Means of verification: WASA Semi Annual Report

Pro-Gender	No	Pro-Ethnicity	No
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Outcome Nbr. 2: WASA is reorganized, strengthened and operating more efficiently

Observation:

Indicator		Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
2.1	Hours of preventative maintenance in the Malabar and San Fernando systems (hours/month)	Hours/month	200.00	2012	P	300.00	400.00	500.00	600.00	720.00	720.00	720.00		720.00
					P(a)	300.00	400.00	500.00	600.00	720.00	720.00	720.00		720.00
					A	200.00	297.00	1,284.00	2,750.00	4,200.00	1,500.00		4,434.00	

Details

Means of verification: WASA internal reports, Semi-annual reports to IDB

Pro-Gender	No	Pro-Ethnicity	No
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Indicator		Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
2.2	New systems (Malabar and San Fernando WWTP) operated and maintained according to design specifications (system)	System	0.00	2012	P	0.00	0.00	0.00	0.00	2.00	2.00	2.00		2.00
					P(a)	0.00	0.00	0.00	0.00	2.00	2.00	2.00		2.00
					A	0.00	0.00	0.00	0.00	0.00	0.00		0.00	

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OUTCOMES

Details													
Means of verification: WASA internal reports, Semi-annual reports to IDB													
Pro-Gender No				Pro-Ethnicity				No					
Indicator	Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
2.3	New systems (Malabar and San Fernando WWTP) designed, implemented, operating and maintained according to social and environmental specifications (system)	System	0.00	2012	P	0.00	0.00	0.00	0.00	2.00	2.00	2.00	2.00
					P(a)	0.00	0.00	0.00	0.00	2.00	2.00	2.00	2.00
					A	0.00	0.00	0.00	0.00	0.00	0.00		
Details													
Means of verification: WASA internal reports, Semi-annual reports to IDB													
Pro-Gender No				Pro-Ethnicity				No					
Indicator	Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
2.4	WASA with new set of corporate governance policies (approved by the Board)	CG Policy	0.00	2012	P	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
					P(a)	0.00	0.00	1.00	1.00	0.00	0.00	0.00	1.00
					A	0.00	0.00	0.00	0.00	0.00	0.00		
Details													
Means of verification: Consultant Reports; Semi-annual reports to IDB. WASA's Board minutes.													
Pro-Gender No				Pro-Ethnicity				No					
Indicator	Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
2.5	Corporate governance policies and compliance report disclosure of WASA's web page	Disclosure	0.00	2012	P	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
					P(a)	0.00	0.00	1.00	1.00	1.00	1.00	0.00	1.00
					A	0.00	0.00	0.00	0.00	0.00	0.00		
Details													
Means of verification: Consultant Reports; Project Monitoring and Evaluation System; WASA's web page.													
Pro-Gender No				Pro-Ethnicity				No					
Indicator	Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
2.6	WASA's audited financial statements available to the public	Disclosure	0.00	2012	P	0.00	1.00	1.00	1.00	1.00	0.00		4.00
					P(a)	0.00	1.00	1.00	2.00	1.00	1.00		7.00

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OUTCOMES

2.6	WASA's audited financial statements available to the public	Disclosure	0.00	2012	A	0.00	0.00	0.00	0.00	0.00	0.00			0.00
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Details

Means of verification: Consultant Reports; Project Monitoring and Evaluation System; WASA's web page.

Pro-Gender	No	Pro-Ethnicity	No
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Indicator	Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
2.7 Percentage of WASA costumers served with new billing system	%	0.00	2012	P	0.00	0.00	0.00	100.00	100.00	0.00	0.00		100.00
				P(a)	0.00	0.00	0.00	100.00	100.00	100.00	0.00		100.00
				A	0.00	0.00	0.00	0.00	100.00	100.00			0.00

Details

Means of verification: WASA Financial Planning and Management report; Semi-annual reports to IDB.

Pro-Gender	No	Pro-Ethnicity	No
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RESULTS MATRIX

OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

Component Nbr. 1 New wastewater treatment plants in San Fernando and Malabar functioning according to design

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2018	EOP 2020	2018	EOP 2020
1.1	Equipment for operation and maintenance acquired (equipment)	Equipment	P		4		150,000
			P(a)	2	2	700,000	700,000
			A	0	0	0	0
1.2	Malabar Waste Water Treatment Plants built (includes commissioned)	Plant	P		1		63,716,869
			P(a)	0	1	12,000,000	75,698,063.42
			A	0	1	11,238,466.6	74,936,530.02
1.3	Old Malabar Waste Water Treatment Plants decommissioned (plants)	Plant	P		1		1,000,000
			P(a)	1	1	1,000,000	1,000,000
			A	0	0	0	0
1.4	San Fernando Waste Water Treatment Plants built (includes commissioned)	Plant	P		1		77,150,469
			P(a)	0	1	13,030,133.32	77,150,469
			A	0	0	7,308,595.33	55,428,931.07
1.5	Old San Fernando Waste Water Treatment Plants decommissioned	Plant	P		1		1,000,000
			P(a)	0	1	0	1,000,000
			A	0	0	0	0
1.6	Sewage pumping stations built	Station	P		4		11,004,785
			P(a)	0	4	0	11,004,785
			A	0	0	0	0
1.7	Sewerage network built	Km	P		26		58,029,930
			P(a)	2.7	19.65	0	45,029,930
			A	1.8	15.75	0	0
1.8	Intra-domiciliary sanitary connections built in pilot area	Connection	P		400		2,812,500
			P(a)	0	172	812,500	2,812,500
			A	0	0	0	0
1.9	Access Road/Bridge to San Fernando WWTP built	Road	P		1		2,489,228.93
			P(a)	0	1		2,232,804.97
			A	0	1	0	2,239,851.25

RESULTS MATRIX

OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

Component Nbr. 2 WASA is reorganized, strengthened and operating more efficiently

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2018	EOP 2020	2018	EOP 2020
2.1	Training activities on preventative maintenance (including training on use of new equipment) implemented	Training	P		2		200,000
			P(a)	1	2	100,000	200,000
			A	0	0	0	0
2.2	Training activities in water quality monitoring, including water quality assessment guidelines in line with best international practice, implemented (program)	Training	P		4		50,000
			P(a)	1	5	25,000	50,000
			A	1	4	0	0
2.3	Environmental education campaigns implemented	Campaign	P		2		50,500
			P(a)	0	2	10,000	40,500
			A	0	2	0	8,459.55
2.4	Action plan for corporate governance implemented	Plan implemented	P		4		818,448
			P(a)	0	3	226,162.02	560,000
			A	0	3	200,520	534,357.98
2.5	Action plan for commercial management implemented	Plan implemented	P		1		2,600,000
			P(a)	0	1	0	5,478,351.89
			A	0	1	911,095.92	6,389,447.81

Other Cost

Project Management and Supervision	P				1,000,000
	P(a)			572,285.32	642,858
	A			0	70,572.68
Works Supervision	P				5,444,451
	P(a)			938,796.62	4,058,892
	A			1,397,177.3	4,517,272.68
Contingencies	P				1,120,000
	P(a)			1,120,000	1,120,000
	A			0	0
Auditing	P				198,668
	P(a)			19,758.71	132,000
	A			22,844.17	135,085.46
Evaluations	P				100,000
	P(a)			38,750	50,000
	A			33,750	45,000
Works cost escalation	P				17,559,771.93
	P(a)				17,538,845.72
	A			0	0

Total Cost

Total Cost	P				246,495,620.86
	P(a)			30,593,385.99	246,500,000
	A			21,112,449.32	144,305,508.5

No information available for this section