



Operation Number: **TT-L1026**
 Year- PMR Cycle: **Second period Jan-Dec 2014**
 Last Update: **4/30/2015**
 PMR Validation Stage: **Validated by Representative**

Chief of Operations validation date: **05/05/2015**
 Division Chief validation date: **05/05/2015**
 Country Representative validation date: **05/06/2015**

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

Operation Profile

Basic Data

Operation name:	Multi-Phase Wastewater Rehabilitation Program- Phase I	Loan Number:	2890/OC-TT
Executing Agency (EA):	WATER AND SEWERAGE AUTHORITY		
Team Leader:	Cayetano,Evan Stephen	Sector/Subsector:	SANITATION RURAL AND PERI-URBAN
Operation Type:	Loan Operation	Overall Stage:	Disbursing (From eligibility until all the loans are closed).
Lending Instrument:	Investment Loan	Country:	TRINIDAD AND TOBAGO
Borrower:	TRINIDAD AND TOBAGO	Convergence related Operation(s):	

Total Cost and Source

	Original IDB	Current Active IDB	Local Counterpart	Co-Financing/Country	Total operation cost - Original Estimate
TT-L1026	\$246,500,000.00	\$246,500,000.00	\$0.00	\$0.00	\$246,500,000.00

Available Funds (US\$)

	Current IDB	Disb. Amount to Date	% Disbursed	Undisbursed Balance
TT-L1026	\$246,500,000.00	\$24,200,382.00	9.82%	\$222,299,618.00

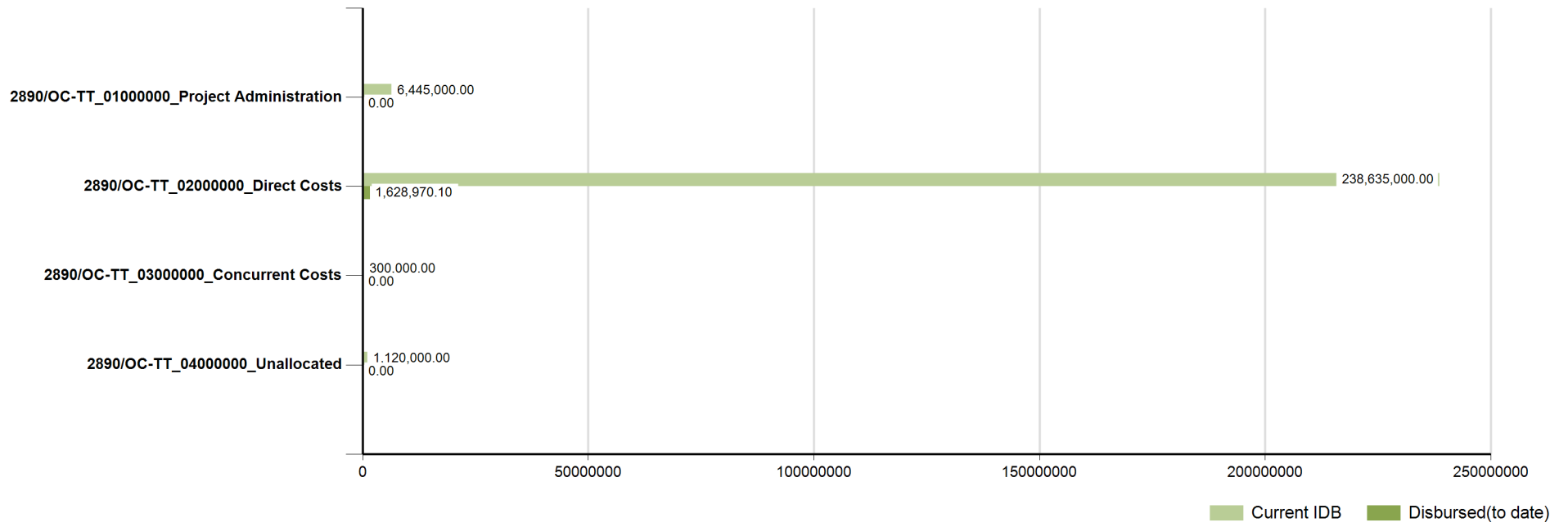
Environmental and Social Safeguards

Main Operation	
Impacts Category:	B
Safeguard Performance Rating:	Satisfactory
Safeguard Performance Rating - Rationale:	Environmental, social, health and safety measures are implemented adequately with a strong focus on H&S

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

No information related to this operation.

Outcomes

Outcome:	1 New wastewater treatment plants in San Fernando and Malabar functioning according to design												
Observation:													
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	2013	2014	2015	2016	2017	EOP	
1.1 Households with new connection to a sewerage network in pilot area (household)	RF	Households	0.00	2012	Completion certificate signed by construction supervisor and WASA; Semi-annual reports to IDB.		P	0.00	0.00	0.00	200.00	200.00	400.00
							P(a)	0.00	0.00	0.00	200.00	200.00	400.00
							A	0.00	0.00				
1.2 Households connected to an improved sewerage network in Malabar and San Fernando (household)	RF	Households	0.00	2012	Completion certificate signed by construction supervisor and WASA; Semi-annual reports to IDB.		P	0.00	0.00	0.00	0.00	16,626.00	16,626.00
							P(a)	0.00	0.00	0.00	0.00	16,626.00	16,626.00
							A	0.00	0.00				
1.3 Malabar: Percentage of population in the catchment covered by the WWTP (percentage)		%	0.00	2012	WASA water quality monitoring reports (catchment area); Semi-annual reports to IDB.		P	0.00	0.00	0.00	0.00	100.00	100.00
							P(a)	0.00	0.00	0.00	0.00	100.00	100.00
							A	0.00	0.00				
1.4 San Fernando: Percentage of population in the catchment treated by the WWTP (percentage)		%	0.00	2012	WASA water quality monitoring reports (catchment area); Semi-annual reports to IDB.		P	0.00	0.00	0.00	0.00	100.00	100.00
							P(a)	0.00	0.00	0.00	0.00	100.00	100.00
							A	0.00	0.00				

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	WASA water quality monitoring reports (monitoring point at outfall site). The ESMP will specify the sampling points and the definition of a baseline.		P	0.00	0.00	0.00	90.00	90.00	90.00
							P(a)	0.00	0.00	0.00	90.00	90.00	90.00
							A	0.00	0.00				
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	WASA water quality monitoring reports (monitoring point at outfall site). The ESMP will specify the sampling points and the definition of a baseline.		P	0.00	0.00	0.00	90.00	90.00	90.00
							P(a)	0.00	0.00	0.00	90.00	90.00	90.00
							A	0.00	0.00				
1.7 Women trained in water quality monitoring		%	0.00	2013	WASA monitoring reports		P	0.00	50.00				50.00
							P(a)	0.00	50.00	50.00			50.00
							A	0.00	0.00				
1.8 Households with treated wastewater		Households	0.00	2013	WASA Semi Annual Report		P	0.00	0.00	0.00	200.00	16,826.00	17,026.00
						P(a)	0.00	0.00	0.00	200.00	16,826.00	17,026.00	
						A	0.00	0.00					

Outcome: 2 WASA is reorganized, strengthened and operating more efficiently

Observation:

Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	2013	2014	2015	2016	2017	EOP	
2.1 Hours of preventative maintenance in the Malabar and San Fernando systems (hours/month)		Hours/month	200.00	2012	WASA internal reports, Semi-annual reports to IDB		P	300.00	400.00	500.00	600.00	720.00	720.00
						P(a)	300.00	400.00	500.00	600.00	720.00	720.00	
						A	200.00	297.00					
2.2 New systems (Malabar and San Fernando WWTP) operated and maintained according to design specifications (system)		System	0.00	2012	WASA internal reports, Semi-annual reports to IDB		P	0.00	0.00	0.00	0.00	2.00	2.00
						P(a)	0.00	0.00	0.00	0.00	2.00	2.00	
						A	0.00	0.00					

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	WASA internal reports, Semi-annual reports to IDB		P	0.00	0.00	0.00	0.00	2.00	2.00
						P(a)	0.00	0.00	0.00	0.00	2.00	2.00
						A	0.00	0.00				
2.4 WASA with new set of corporate governance policies (approved by the Board)	CG Policy	0.00	2012	Consultant Reports; Semi-annual reports to IDB. WASA's Board minutes.		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
						A	0.00	0.00				
2.5 Corporate governance policies and compliance report disclosure of WASA's web page	Disclosure	0.00	2012	Consultant Reports; Project Monitoring and Evaluation System; WASA's web page.		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
						A	0.00	0.00				
2.6 WASA's audited financial statements available to the public	Disclosure	0.00	2012	Consultant Reports; Project Monitoring and Evaluation System; WASA's web page.		P	0.00	1.00	1.00	1.00	1.00	4.00
						P(a)	0.00	1.00	1.00	1.00	1.00	4.00
						A	0.00	0.00				
2.7 Percentage of WASA costumers served with new billing system	%	0.00	2012	WASA Financial Planning and Management report; Semi-annual reports to IDB.		P	0.00	0.00	0.00	100.00	100.00	100.00
						P(a)	0.00	0.00	0.00	100.00	100.00	100.00
						A	0.00	0.00				

 RF - RF Indicator

 SI - Sector Indicator

 CI - Country Indicator

 PG - Pro-Gender

 PE - Pro-Ethnicity

Outputs: Annual Physical and Financial Progress

New wastewater treatment plants in San Fernando and Malabar functioning according to design		Physical Progress			Financial Progress		
Outputs	Unit of Measure		2014	EOP		2014	EOP
Equipment for operation and maintenance acquired (equipment)	Equipment	P	0.00	4.00	P	0.00	150,000.00
		P(a)	0.00	4.00	P(a)	0.00	150,000.00
		A	0.00	0.00	A	0.00	0.00
Malabar Waste Water Treatment Plants built (includes commissioned)	Plant	P	0.00	1.00	P	12,000,000.00	63,716,869.00
		P(a)	0.00	1.00	P(a)	12,000,000.00	63,716,869.00
		A	0.00	0.00	A	841,971.17	841,971.17
Old Malabar Waste Water Treatment Plants decommissioned (plants)	Plant	P	0.00	1.00	P	0.00	1,000,000.00
		P(a)	0.00	1.00	P(a)	0.00	1,000,000.00
		A	0.00	0.00	A	0.00	0.00
San Fernando Waste Water Treatment Plants built (includes commissioned)	Plant	P	0.00	1.00	P	10,000,000.00	77,150,469.00
		P(a)	0.00	1.00	P(a)	10,000,000.00	77,150,469.00
		A	0.00	0.00	A	0.00	0.00
Old San Fernando Waste Water Treatment Plants decommissioned	Plant	P	0.00	1.00	P	0.00	1,000,000.00
		P(a)	0.00	1.00	P(a)	0.00	1,000,000.00
		A	0.00	0.00	A	0.00	0.00
Sewage pumping stations built	Station	P	0.00	4.00	P	0.00	11,004,785.00
		P(a)	0.00	4.00	P(a)	0.00	11,004,785.00
		A	0.00	0.00	A	0.00	0.00
Sewerage network built	Km	P	9.00	26.00	P	0.00	58,029,930.00
		P(a)	9.00	26.00	P(a)	0.00	58,029,930.00
		A	0.00	0.00	A	0.00	0.00
Intra-domiciliary sanitary connections built in pilot area	Connection	P	0.00	400.00	P	0.00	2,812,500.00
		P(a)	0.00	400.00	P(a)	0.00	2,812,500.00
		A	0.00	0.00	A	0.00	0.00
Access Road/Bridge to San Fernando WWTP built	Road	P	1.00	1.00	P	2,292,056.07	2,489,228.93
		P(a)	1.00	1.00	P(a)	2,294,883.21	2,232,804.97
		A	1.00	1.00	A	1,738,987.78	1,936,160.64
WASA is reorganized, strengthened and operating more efficiently		Physical Progress			Financial Progress		
Outputs	Unit of Measure		2014	EOP		2014	EOP
Training activities on preventative maintenance (including training on use of new equipment) implemented	Training	P	0.00	2.00	P	0.00	200,000.00
		P(a)	0.00	2.00	P(a)	0.00	200,000.00
		A	0.00	0.00	A	0.00	0.00
Training activities in water quality monitoring, including water quality assessment guidelines in line with best international practice, implemented (program)	Training	P		4.00	P		50,000.00
		P(a)		4.00	P(a)		50,000.00
		A		0.00	A	0.00	0.00
Environmental education campaigns implemented	Campaign	P	1.00	2.00	P	25,500.00	50,500.00
		P(a)	1.00	2.00	P(a)	25,000.00	50,500.00
		A	0.00	0.00	A	0.00	0.00
Action plan for corporate governance implemented	Plan implemented	P	2.00	4.00	P	524,350.00	818,448.00
		P(a)	2.00	5.00	P(a)	534,250.00	818,448.00
		A	2.00	2.00	A	3,602.53	12,050.53
Action plan for commercial management implemented	Plan implemented	P	0.00	1.00	P	0.00	2,600,000.00
		P(a)	0.00	1.00	P(a)	0.00	2,600,000.00
		A	0.00	0.00	A	0.00	0.00
Other Costs							

Other Cost		2014	Cost
Project Management and Supervision	P	\$214,286.00	\$1,000,000.00
	P(a)	\$214,286.00	\$1,000,000.00
	A	\$0.00	\$0.00
Works Supervision	P	\$1,342,000.00	\$5,444,451.00
	P(a)	\$1,342,000.00	\$5,147,806.67
	A	\$0.00	\$0.00
Contingencies	P		\$1,120,000.00
	P(a)		\$1,677,447.43
	A		\$0.00
Auditing	P	\$43,000.00	\$198,668.00
	P(a)	\$43,000.00	\$198,668.00
	A	\$0.00	\$0.00
Evaluations	P		\$100,000.00
	P(a)		\$100,000.00
	A	\$0.00	\$0.00
Works cost escalation	P		\$17,559,771.93
	P(a)		\$17,559,771.93
	A		\$0.00
Total Cost		2014	Total Cost
	P	\$26,441,192.07	\$246,495,620.86
	P(a)	\$26,453,419.21	\$193,237,321.67
	A	\$2,584,561.48	\$2,790,182.34

Changes to the Matrix

Section	Name	Type of Change	Reasons	Entered in the System	Agreed with Executing Agency
Output	Access Road/Bridge to San Fernando WWTP built	Modify Financial P(a) value	This activity has been completed below the budgeted cost. The amount for 2015 is to cover the defects liability payment.	4/4/2015	4/2/2015
Output	Action plan for commercial management implemented	Modify Means of Verification	Means of verification added	4/4/2015	1/19/2013
Output	Action plan for corporate governance implemented	Modify Means of Verification	Means of verification added	4/4/2015	1/19/2013
Output	Environmental education campaigns implemented	Modify Means of Verification	Means of verification added	4/4/2015	1/19/2013
Output	Training activities in water quality monitoring, including water quality assessment guidelines in line with best international practice, implemented (program)	Modify Means of Verification	Means of verification added	4/4/2015	1/19/2013
Output	Training activities on preventative maintenance (including training on use of new equipment) implemented	Modify Means of Verification	Means of verification added	4/4/2015	1/19/2013
Output	Access Road/Bridge to San Fernando WWTP built	Modify Means of Verification	Means of verification added	4/4/2015	1/19/2013
Output	Intra-domiciliary sanitary connections built in pilot area	Modify Means of Verification	Means of verification added	4/4/2015	1/19/2013
Output	Sewerage network built	Modify Means of Verification	Means of verification added	4/4/2015	1/19/2013

Output	Sewage pumping stations built	Modify Means of Verification	Means of verification added	4/4/2015	1/19/2013
Output	Old San Fernando Waste Water Treatment Plants decommissioned	Modify Means of Verification	Means of verification added	4/4/2015	1/19/2013
Output	San Fernando Waste Water Treatment Plants built (includes commissioned)	Modify Means of Verification	Means of verification added	4/4/2015	1/19/2013
Output	Old Malabar Waste Water Treatment Plants decommissioned (plants)	Modify Means of Verification	Means of verification added	4/4/2015	1/19/2013
Output	Malabar Waste Water Treatment Plants built (includes commissioned)	Modify Means of Verification	Means of verification added	4/4/2015	1/19/2013
Output	Equipment for operation and maintenance acquired (equipment)	Modify Means of Verification	Means of verification added	4/4/2015	1/19/2013
Output	Sewerage network built	Modify Financial P(a) value	The change in the financial schedule corresponds to the schedule of the contractor submitted by the Executing Agency	3/26/2015	4/2/2015
Output	Action plan for corporate governance implemented	Modify Financial P(a) value	The change in the financial schedule corresponds to the schedule of the consulting firm submitted by the Executing Agency	3/26/2015	4/2/2015
Output	Environmental education campaigns implemented	Modify Financial P(a) value	This activity has not started and the allocation for 2014 is now allocated to 2015.	3/26/2015	4/2/2015

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.