

TC ABSTRACT

I. Basic Project Data

▪ Country/Region:	Jamaica / CCB
▪ TC Name:	Support to Update the Jamaica Water Resources Development Master Plan
▪ TC Number:	JA-T1111
▪ Team Leader/Members:	Evan Cayetano (WSA/CTT) (TL) and Uche Osuji (WSA/CTT); Yvon Mellinger (ATL) (WSA/CBA); Rodrigo Riquelme and Irene Cartin (INE/WSA); Javier Jimenez (LEG/SGO); and Sudaney Blair (CCB/CJA)
▪ Indicate if: Operational Support, Client Support, or Research & Dissemination.	Client Support
▪ If Operational Support TC, give number and name of Operation Supported by the TC:	
▪ Reference to Request ¹ : (IDB docs #)	IDBDOCS # 39558233
▪ Date of TC Abstract:	April 2015
▪ Beneficiary (countries or entities which are the recipient of the technical assistance):	The Principal beneficiary will be the Jamaica Water Resources Authority (WRA)
▪ Executing Agency and contact name (Organization or entity responsible for executing the TC Program):	Water Resources Authority Mr. Herbert Thomas, Managing Director (a.i.)
▪ IDB Funding Requested:	US\$200,000
▪ Local counterpart funding, if any:	N/A
▪ Disbursement period (which includes execution period):	18 months
▪ Required start date:	November 2015
▪ Types of consultants (firm or individual consultants):	Firm
▪ Prepared by Unit:	INE/WSA
▪ Unit of Disbursement Responsibility:	CCB/CJA
▪ Included in Country Strategy (y/n);	No
▪ TC included in CPD (y/n):	Yes
▪ GCI-9 Sector Priority:	Poverty reduction and equity enhancement (Access to Water and Sanitation); and Small and vulnerable countries (Jamaica).

II. Objective and Justification

- 2.1 The objective is to update the Jamaica Water Resources Development Master Plan (WRDMP). This plan is required under Water Resources Act 1995 to guide the management and allocation of the countries' water resources for its various uses over the period 2015 to 2050.

¹ A copy of the Letter of Request, Programming/Portfolio Review Mission Aide Memoire or Report requesting the TC should be submitted with the Abstract.

- 2.2 The Water Resources Authority (WRA) is a statutory body of the Government of Jamaica. The WRA was established by the Water Resources Act of 1995 and is presently operating within the portfolio of the Ministry of Water Land Environment and Climate Change (MWLECC). The WRA is responsible for maintaining a water resources information system, developing the Water Resources Master Plan and Water Quality Control Plans, allocation of water resources, provide technical support to agencies of government relating to the development, conservation and use of water resources and perform functions relating to watershed management as may be assigned by other enactments. The WRA routinely monitors river flows at 133 gauging stations and groundwater at 1,802 sites throughout the island. The data forms the basis for the update every 10 years of the WRDMP. Allocation is the main tool for management via the issuance of licenses. Renewable groundwater abstraction licenses are issued for five years. With the new Water Resources Act in place, users of surface water will also have to obtain licenses similar to those issued for groundwater abstraction, which has not been the case prior to the new Act.
- 2.3 The WRA covers the entire country with its technical expertise. However, it is constrained by financial resources to keep the Master Plan updated.

III. Description of activities and outputs

- 3.1 The TC would finance the preparation of a 40-year WRDMP. In general, this will include a review of the Draft 2005 Master Plan and the gaps identified pertaining resource assessment and demand assessment. The specific activities to be conducted by a consulting firm according to the following components: (i) update the water resources inventory for the period 2015 – 2050; (ii) recalculation of sectoral water demands; (iii) revision of the WRDMP; (iv) publication of the WRDMP; and (v) printing and launch of the WRDMP.
- 3.2 Accordingly these will include: update of the water resources inventory for the period 2012–2015, including determination of the harvested rainfall per water management unit (WMU) or sub-WMU as at 2010; recalculation of rainfall input to water balance taking into consideration projected increase or decrease spatially and temporally as predicted by the CC-group at UWI (2015-2050); recalculation of evapotranspiration input to water balance taking into consideration projected temperature increase as predicted by the Climate Change-(CC) group at UWI (2015-2050); recalculation of available resource type (2015-2050); water resources inventory projections for 2030, 2040 and 2050; recalculation of sectoral demands given new population census, loss of agricultural lands and projections under CC for increased temperatures, including recalculation of exploitable resources for 2015-2050; and verification of the water abstraction data; review, edit and redraft all chapters of the WRDMP; and development and population of online database with all Mater Plan related data.

- 3.3 In addition to editing other chapters of the 2005 Master Plan that will be retained, and the compilation of the full WRDMP, the consultants will be required to develop and populate an online database with Master Plan Information.

IV. Budget

- 4.1 The total cost and the amount that would be made available by the IDB for the proposed TC is US\$200,000.

Indicative Budget (US\$)

Activity/Component	Description	IDB/Fund Funding	Counterpart Funding	Total Funding
Update the water resources inventory for the period 2015 – 2050	Determination of the harvested rainfall; recalculation of rainfall input to water balance; recalculation of evapotranspiration input to water balance; recalculation of available resource type; and water resources inventory projections	180,000	-	180,000
Recalculation of sectoral water demands	Recalculation of exploitable resources; and verification of the water abstraction data.			
WRDMP revision	Review, edit and redraft all chapters of WRDMP Draft Report			
Publication	Development and population of online database with all Master Plan related data			
Print 50 copies of document and launch of Master Plan	Printing and Launch	20,000	-	20,000
Total		200,000	-	200,000

V. Executing agency and execution structure

- 5.1 The executing agency for the TC will be the WRA of the MWLECC. The TC will be under the auspices of the Managing Director. The WRA will be responsible for the contracting of the required consulting firm who will report to the WRA Managing Director. The WRA will provide office space and assist with logistical support for the consultants.

VI. Project Risks and issues

- 6.1 The TC contemplates one contracting process, and while the WRA has a successful experience with IDB procurement, it may need assistance from the Bank's procurement specialist. The fiduciary risks would be considered moderate to low. The risk of unsatisfactory performance from the Consulting firm will be mitigated by ensuring proper costing of the services and monitoring of performance by the WRA and the Bank. The risk of the Master Plan not being utilized is low as this is a most important document for the operations of the WRA.

VII. Environmental and Social Classification

- 7.1 This TC will finance a consultancy product, the WRDMP Water Resource Development Master Plan for WRA and, as such, does not require the implementation of specific environmental or social safeguard policies. It is therefore classified as C.