

Project Document
Support to debris management and planning for post-hurricane recovery

TRAC 3 Category II funding from CRU

1. COVER PAGE

Country: Belize

Implementing parties:

- UNDP Belize
- Ministry of Agriculture Forestry, Fisheries, the Environment, Sustainable Development and Climate Change,
- Belize Solid Waste Management Authority

Programme Period: 2012-2016
Programme Component: Energy and Environment/ DRR
Project Title:
Support to debris management and planning for post-hurricane recovery

Project ID: _____
Project Duration: 6 Months
Management Arrangement: DIM

Total Budget	\$65,000
Allocated resources:	
• Government	
• Regular	\$50,000
• Other:	
○ Donor	_____
○ Donor	_____
○ Donor	_____
• In kind contributions	\$15,000
Unfunded budget:	

Agreed by (UNDP): _____


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2. SITUATION ANALYSIS

Hurricane Earl made landfall ESE of Belize City at 9:00 pm Wednesday, 3rd August 2016. The Hurricane which delivered maximum sustained winds of 80 mph (130 kph) remained a hurricane overnight as it moved in a westward direction over the country, but weakened and was downgraded to a Tropical Storm at dawn as it crossed into neighboring Guatemala.

As a Category 1 hurricane, Earl left in its wake significant debris and destruction of vegetative matter within impact zones. The timely removal/ clearance of debris is considered by national counterparts as a crucial in supporting public health and safety programmes, minimizing the risk of secondary impacts to the Belizean population. Current debris management operations are not directed through the activation of a comprehensive debris management plan. Such a plan is a critical element in efficient recovery efforts when a disaster strikes, however national and local actors lack adequate capacities for the desired coordinated response.

Debris with Belize City pose a significant public health hazard as it has contributed to the disruption of effective drainage of this below sea level urban settlement. It is feared that ponding due to improper or obstructed drainage will lead to increased presence of *Aedes aegypti* mosquitoes already linked to incidences of zika and an outbreak of dengue in the city. The national Solid Waste Management Office has requested UNDP's assistance in supporting its debris management efforts, facilitating the safe and timely removal of debris and well as to provide for institutional strengthening in debris management meant to inform national SOPs in debris management. Outputs include a post-hurricane debris assessment and a debris management plan.

The National Emergency Management Organization in its brief to humanitarian actors on the 8th August, 2016 has also warned of another potential public health hazard associated with deteriorating air quality during the upcoming dry season, as the country sees an increase in outbreaks of wildfires fueled by damaged forest stands within the zone of impact. Authorities have requested support for assessing forest damage and to inform a national timber salvaging programme as a means of removing excess downed vegetative matter within the impacted zone.

Upon its approach, Hurricane Earl crossed directly over Belize Eastern Atolls which supports approximately 40% of artisanal fisheries livelihoods. Initial rapid assessment of the fisheries and agricultural sectors, hints at substantive losses of produce and damage to support infrastructure, machinery and tools. Damages to traditional fishing grounds and reefs needs to be determined in an effort to assess long term disruption of livelihoods UNDP support to implementation of more detailed assessments and recovery plans for these sectors will be timely.

3. PROJECT OUTPUTS AND ACTIVITIES

Output 1: Support national authorities to conduct assessment on the impact of the disaster and debris management needs.

Activities:

- 1.1 Support government of Belize to undertake diagnostics of the impact in terms of debris management. The services of a Debris Management Expert will be utilized as surge support to national authorities informing assessments, coordination and recovery initiatives in the area of debris management.
- 1.2 Support detailed assessments determining extent of damage to forest stands and vegetation outside of population centers utilizing satellite data as well as data collected through flyover missions.
- 1.3 Support national authorities for assessment of damages to the reef system which provides support to artisanal fisheries livelihoods on the Turneffe Reef Atoll
- 1.4 Mapping of priorities and information needs for the development of recovery, mitigation and resilience frameworks.

Output 2: Elaboration of a recovery programme responsive to damages

Activities:

- 2.1 Support response to early recovery planning processes and the development of a Wildfire Mitigation Strategy, Timber Salvaging Programme, and early recovery plan for artisanal fisheries of the Turneffe Atoll.
- 2.2 Provide technical assistance to develop Forestry Recovery/Resilience Guidelines and Debris Management SOP's for inclusion within National Response Framework

4. MANAGEMENT ARRANGEMENTS

As a means of facilitating quick and efficient response, and in consideration that national counterparts are already committed to extended response actions, UNDP will manage directly the execution of programmed activities. In order to ensure the full involvement of the Government of Belize and affected programmes, UNDP will, through its participation in a recovery task force, directly engage national counterparts ensuring their contribution to activity planning and implementation.

5. ANNUAL WORK PLAN BUDGET SHEET

EXPECTED OUTPUTS and indicators including annual targets	PLANNED ACTIVITIES <i>List all activities including M&E to be undertaken during the year towards stated CP outputs</i>	TIMEFRAME				RESPONSIBLE PARTY	PLANNED BUDGET		
		Q 1	Q 2	Q 3	Q 4		Source of Funds	Budget Description	Amount
Output 1: Support national authorities to conduct assessment on the impact of the disaster and debris management needs.	<p>1.1. Support government of Belize to undertake diagnostics of the impact in terms of debris management. The services of a Debris Management Expert will be utilized as surge support to national authorities informing assessments, coordination and recovery initiatives in the area of debris management.</p> <p>1.2. Support detailed assessments determining extent of damage to forest stands and vegetation outside of population centers utilizing satellite data as well as data collected through flyover missions.</p> <p>1.3. Support national authorities for assessment of damages to the reef system which provides support to artisanal fisheries livelihoods on the Turneffe Reef Atoll</p> <p>1.4. Mapping of priorities and information needs for the development of recovery, mitigation and resilience frameworks.</p>					UNDP/MAFFES DCC/ NEMO/ SWAMA	TRAC 1.1.3	Technical assistance Consultancies, Contract, Expert in debris Management	\$40,000
Output 2: Elaboration of a recovery programme responsive to damages	<p>2.1 Support response to early recovery planning processes and the development of a Wildfire Mitigation Strategy, Timber Salvaging Programme, and early recovery plan for artisanal fisheries of the Turneffe Atoll.</p> <p>2.2 Provide technical assistance to develop Forestry Recovery/Resilience Guidelines and Debris Management SOP's for inclusion within National Response Framework</p>					UNDP/ NEMO/ MAFFES DCC /SWAMA	TRAC 1.1.3	Expert on debris management Technical assistance , working groups and recovery planning.	\$10,000

** A gender-sensitive approach will be duly incorporated into assessments and the resulting recovery plans.