

## Request for Proposal

### Fostering Watershed Conservation in the Pine Islands of The Bahamas

**Title of Position:** Watershed Scientist

**Contracting Agency:** The Nature Conservancy

**Position Type:** Contractual

**Position Location:** The Bahamas

**Reports to:** The Nature Conservancy

#### 1. Background:

In 2010 The Nature Conservancy Northern Caribbean Program (TNC NCP) completed a project funded by the Global Environment Facility entitled; Integrating Watershed and Coastal Areas Management (IWCAM) in small island Developing States of the Caribbean, demonstrating Land and Sea Use Planning for Water Recharge Protection in Andros. Because this project was the first of its kind on Andros, a lot of basic research was conducted to build the skeleton for future research that will educate the Bahamian public, build awareness pertaining to the water lens and other resources in Andros and change behaviors that threaten those resources.

The current research titled Fostering Watershed Conservation in the Pine Islands of The Bahamas builds on the IWCAM 2010 research and requires the development of a detailed water management plan that will describe the maximum yield of the Andros aquifer that will not lead to its destruction. The management plan will also assist with changing local policy and behaviors needed to reverse current damaging sanitation practices in South Andros by guiding the establishment of a demonstration site in South Andros, Bahamas which will employ green technologies suitable for the region.

#### 2. Contractor Duties:

Andros Island wide

- Quantify the freshwater resources for the island of Andros and the existing demands related to 1) domestic use 2) agricultural use 3) industrial use and 4) tourism
- Conclude the maximum sustainable yield for the freshwater on Andros Island
- Evaluate future demands on freshwater by incorporating 1) population growth, 2) proposed agricultural plans 3) proposed industrial plans and 4) potential tourism increase.
- Identify and define all threats to the resource and further describe measures to contain these threats including but not limited to sanitation

Specific to South Andros

- Survey sanitation technologies currently in use in order to assess what behaviours need to change. A survey shall be conducted to identify the current practices employed by South Androsians. Additionally, the survey will determine current attitudes towards sanitation practices and the best method of effecting change of behaviour.
- Research & document alternative sanitation technologies feasible for use in South Andros – The South Andros community has limited access to fresh water resources. Sanitation technologies suitable for use in larger countries and or areas with a larger fresh water lens may not be applicable to the South Andros community. Appropriate

technologies for this small community should be properly examined thoroughly before implementation.

- Recommend suitable water conservation technologies for South Andros

### **3. Deliverables due to The Nature Conservancy:**

- Detailed workplans including methodology to be used when:
  - Quantifying the freshwater resources in Andros and the existing demands related to 1) domestic use 2) agricultural use 3) industrial use and 4) tourism
  - Determining the maximum sustainable yield for the freshwater in Andros
  - Evaluating future demands by incorporating 1) population growth, 2) proposed agricultural plans 3) proposed industrial plans and 4) potential tourism increase.
  - Identifying and defining all threats to the resource including but not limited to sanitation
- Minutes or notes and PowerPoint Presentations on *all* consultations with stakeholders including list of participants, draft surveys and a summary of survey results and total surveys completed
- Two separate draft reports of the water management plan and;
- Final detailed report of the water management plan

All deliverables shall be submitted electronically and printed in duplicate (in Microsoft Word 97 or higher).

### **4. Official Language:**

For all purposes, including communications, the official language of the contract is English.

### **5. Term of Contract:**

The term of this contract will be for five (5) months with an expected start date of November 1st, 2012

### **6. Form of Payment:**

The details of the contract will be finalized during the signing of the contract between the Contractor and The Nature Conservancy. The fee for the contract will include all international and local travel expenses, and printed materials.

### **7. Proposal Format and Deadline:**

Proposal should include the following sections – Literature Review, Methodology, Budget and Timeline. Submit proposals to [bahamas@tnc.org](mailto:bahamas@tnc.org) by September 30<sup>th</sup> 2012 with Curriculum Vitae attached.

### **8. Recommended Reading:**

All applicants should review the *Economic Valuation of the Natural Resources of Andros Island, The Bahamas*; the *Andros Land and Sea Use Plan*; and the *Water Conservation Strategy and Assessment of Technologies for Andros Island, Bahamas*. Documents available at <http://conserveonline.org/workspaces/tncbahamasandros/documents/all.html>