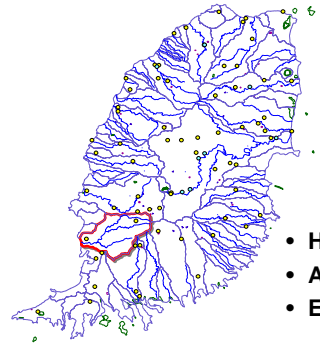


IMPLEMENTATION OF (WATERSHED) ACTIVITY TO ADDRESS LBS PROTOCOL

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ST. JOHN'S WATERSHED



- Hectares: 1208.95
- Acreage: 2987.37
- Elevation: 0-1400ft

Watershed Description

- Drains into the bay north of City & Grand Anse
- Most of the sediment, etc. affects Grand Anse Beach and its reefs.
- Passes through communities that experience flooding, the biggest of which is River Road.
- The river as it leaves River Road is dead because of pollution
- Manufacturing/Other Activities: Soft drinks, Flour, Animal feed, Detergent, Mining, Agricultural activities, Housing, etc.



ISSUES WITHIN THE WATERSHED



PRIMARY OBJECTIVE

- Develop a Watershed Master Plan for the St. John's Watershed in Grenada
- Guide the design and implementation of appropriate measures (e.g. runoff and erosion control)
- To minimize the risk posed to life, property and the coastal zone as a result of pollution, accelerated land degradation and flooding.
- A Budgeted proposal for implementation.

The Watershed Management Planning Approach will be used as a template that may be replicated on other high-risk watersheds in Grenada and the wider Caribbean SIDS

SECONDARY OBJECTIVES

- Enhance capacity in watershed management planning for coastal zone pollution mitigation
- Build capacity in implementation of best practices in Watershed Management Planning

APPROACH

A 3-step process is envisaged

- Commence with Initiation and Scoping
- Design and Implementation of Control Measures
- Monitoring and Evaluation Mechanism.

It is estimated that the work may take up to 18 months to complete.

STRATEGY

The Development of Best Management Practices (BMPs).

- The following activities will form the core of this component.
- Map all the relevant watershed attributes: Physical & Demographic attributes (land covers, land uses at appropriate scale), source for water supply, the locations (geographic coverage) of all pollution sources
- Consider each pollution source within the watershed and determine (in a participatory manner) the suite of management alternatives that can be considered to minimize the risk of pollution from these sources
- Evaluate the feasibility of implementation of management alternatives using objective criteria. This may include GIS-assisted modelling, reforestation, waste treatment, etc. This effort will assist in the finalization of the 'priority' suite of interventions.
- Identify the key stakeholders that will lead / be involved in implementation
- Set up a timeframe for implementation
- Identify the associated costs for the various management interventions

EVALUATION

A monitoring regime will need to be installed to measure progress and assist decision making in reassessing management decisions from time to time.

- Tracking stress reduction indicators (e.g. acreage of new forest planted) and environmental status indicators (e.g. the volume of sediment in runoff during given rainfall events).

The following are the main activities envisaged:

- Design of the monitoring and evaluation framework inclusive of the database (spatial [GIS]) for archival of monitored parameters (NOTE: should be congruent with the monitoring framework under the LBS Protocol – TR33 reporting standard. Should be linked to the Water Information System-CARIWIN Project)
- Assess all existing monitoring and evaluation mechanisms with a view toward either enhancement or replacement
- Recommend the installation of new monitoring equipment and/or the upgrade of existing equipment
- Identify the associated costs for implementation of the monitoring mechanism

CARIWIN OUTPUT

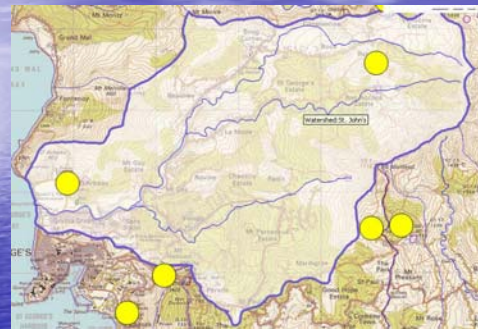
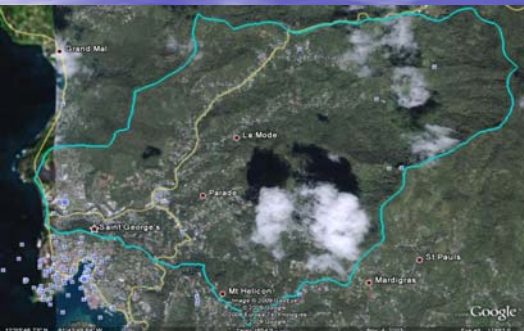


IMAGE OF WATERSHED



CAPACITY BUILDING

- (*cross-cutting*): The entire effort should be regarded as an approach to individual and institutional capacity building in Integrated Watershed and Coastal Area Management Planning.
- Under all the main elements there should be **Workshops & Training Activities** targeted at various levels as relevant to the stakeholders who will have lead responsibility for implementation.

METHODOLOGY

- 1 full-time Watershed Management specialist will be required
- Inter-agency Collaborative team that may be headed by the **Ministry of Agriculture or Planning** with lead partners to include the **Environment, Agriculture and Planning Ministries, Tourism sector, relevant NGOs** and/or **CBOs**, along with any local government bodies (including **NAWASA**) and other key support public and private sector agencies.
- It is estimated that such an effort should take **12-18 months** to complete.

THANK YOU