



**A Review of Organizational, Human  
and Other Resources Supporting  
Compliance and Enforcement in  
the Great River Watershed**



# Ridge to Reef Watershed Project

USAID Contract No. 532 - C-00 - 00235 - 00

## **A Review of Organizational, Human and other Resources Supporting Compliance and Enforcement in the Great River Watershed**

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Prepared for the

Government of Jamaica's  
National Environment and Planning Agency

and the

United States Agency for International Development

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## **Preface**

The Ridge to Reef Watershed Project (R2RW) is a five year (with an optional sixth year) activity contributing to the achievement of USAID - Jamaica's Strategic Objective #2 (SO2) – “improved quality of key natural resources in areas that are both environmentally significant.” R2RW is focused on enhancing sustainable environmental management practices, improving compliance and enforcement and strengthening the capacities of organizations involved in watershed management. R2RW comprises three components contributing to the achievement of the intermediate results under SO2. Component 2 sets out to address incentives for and obstacle to enforcement of targeted environmental legislation identified and solutions supported. This component is built on the assumption that improving enforcement must begin with understanding the reasons why individuals and/organizations do not currently obey prevailing policies and regulations.

The Great River Watershed Project compliance and enforcement Task Force (GRWC & ETF) was established in October 2001. In order to effectively carry out its mandate, the GRWC & ETF wants to develop clear and accurate information on the studies of compliance and enforcement in GRW.

The purpose of this Scope of Work (SOW) is to assist the GRWC & ETF, the Great River Watershed Management Committee, NEPA, and the R2RW Project Technical Team to review state, Private Sector, Civil Society and Community Organizations, involved in Compliance and Enforcement in the GRW, develop a database and implement a workshop to present these findings.

The consultancy was undertaken over a twenty -two (22) days period by Leon Hopkins, MPH., Health and Environment Consultant. Mr. Hopkins is Executive Director of the Hanover Environment Trust, formerly Regional Chief Public Health Inspector, Ministry of Health (WRHA). He has been involved with GRWMCC & EFT) since its inception.

It is hoped that the report will be useful not only for its own activities, but will also assist the efforts of many organizations and agencies that share the goal to improve compliance and enforcement for sustainable watershed management.

## Acronyms

ARD	Associates in Rural Development
CDO	Community Based Organizations
C & E	Compliance and Enforcement
CETF	Compliance and Enforcement Task Force
CWIP	Coastal Water Improvement Project
EFJ	Environmental Foundation of Jamaica
ENACT	Environmental Action Plan
EWS	Environmental Warden Services
FD	Forestry Department
GRW	Great River Watershed
GRWMC	Great River Watershed Management Committee
GRWC & ETF	Great River Watershed compliance and Enforcement Task Force
HET	Hanover Environmental Trust
JAS	Jamaica Agricultural Society
MBMP	Montego Bay Marine Park
NEPA	National Environmental and Planning Agency
NGO	Non-Governmental Organization
NRCA	National Resources Conservation Agency
NSWMA	National Solid Waste Management Authority
NWC	National Water Commission
PDC	Parish Development Committee
PHI	Public Health Inspector
PET	Polyethylene Terephthalate (plastic bottles)
R2RW	Ridge to Reef Watershed Project
RADA	Rural Agricultural Development Agency
SDC	Social Development Commission
SEP	Schools Environment Programme
SO2	Strategic Objective Number 2
SSU	Sanitary Support Unit
USAID	United States Agency for International Development
WRA	Water Resources Authority
WMC	Watershed Management Committee

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## Executive Summary

The Ridge to Reef Watershed (R2RW) project is a five year initiative of the Government of Jamaica (G.O.J.), National Environment and Planning Agency (NEPA) and the Government of the United States through its Agency for International Development (USAID) that seeks to promote the sustainable management of natural resources in the Great River and Rio Grande Watersheds.

The Great River starts in St. Elizabeth and forms parish boundaries between Hanover and St. James and St. James and Westmoreland. See Figure I - Map of the Great River Watershed.

The Great River Watershed therefore falls under the Local Government administration of four parishes namely: St. James, Hanover, Westmoreland and St. Elizabeth. There are some differences in social and economic development, especially in the quality of infrastructure and conditions of the roads. The Great River is of great importance as it supplies water for domestic, agricultural and industrial purposes. The estimated population of the Great River Watershed is 85,219 (NCRA 1999).

The Great River Compliance and Enforcement Task Force (GRC & ETF) was established in October 2001. The Task Force is keen to develop clear and accurate information on the status of compliance and enforcement in the Great River Watershed. Improving compliance and enforcement indeed begins with understanding the reason why individuals and organizations do not obey prevailing policies and regulations.

The study was conducted to determine the number of organisations/groups involved in compliance and enforcement activities in GRW. It investigated the potential of Burial Schemes, Garden Club, Churches and other groups to support C & E at the community level. It undertook interviews, conducted research and review existing documents of EWS wardens.

Based on the above activities, the following was produced.

- (a) An Inventory of Equipment
- (b) A Database of contact information for all persons/groups involved in C & E activities.
- (c) Report on Court Cases for Environmental Violations in GRW

Various strategies were developed to achieve the output, including Literature Review, Meetings, Interviews, and Discussions with relevant agencies and individuals. Appropriate tools were designed to collect the necessary data. Data collection was divided into three segments viz;

- (a) Questionnaire
- (b) Focus Groups
- (c) Review of Court Cases for Environmental Violations. Respondents were willing to be interviewed and displayed high levels of interest and participation.

The study revealed the following:

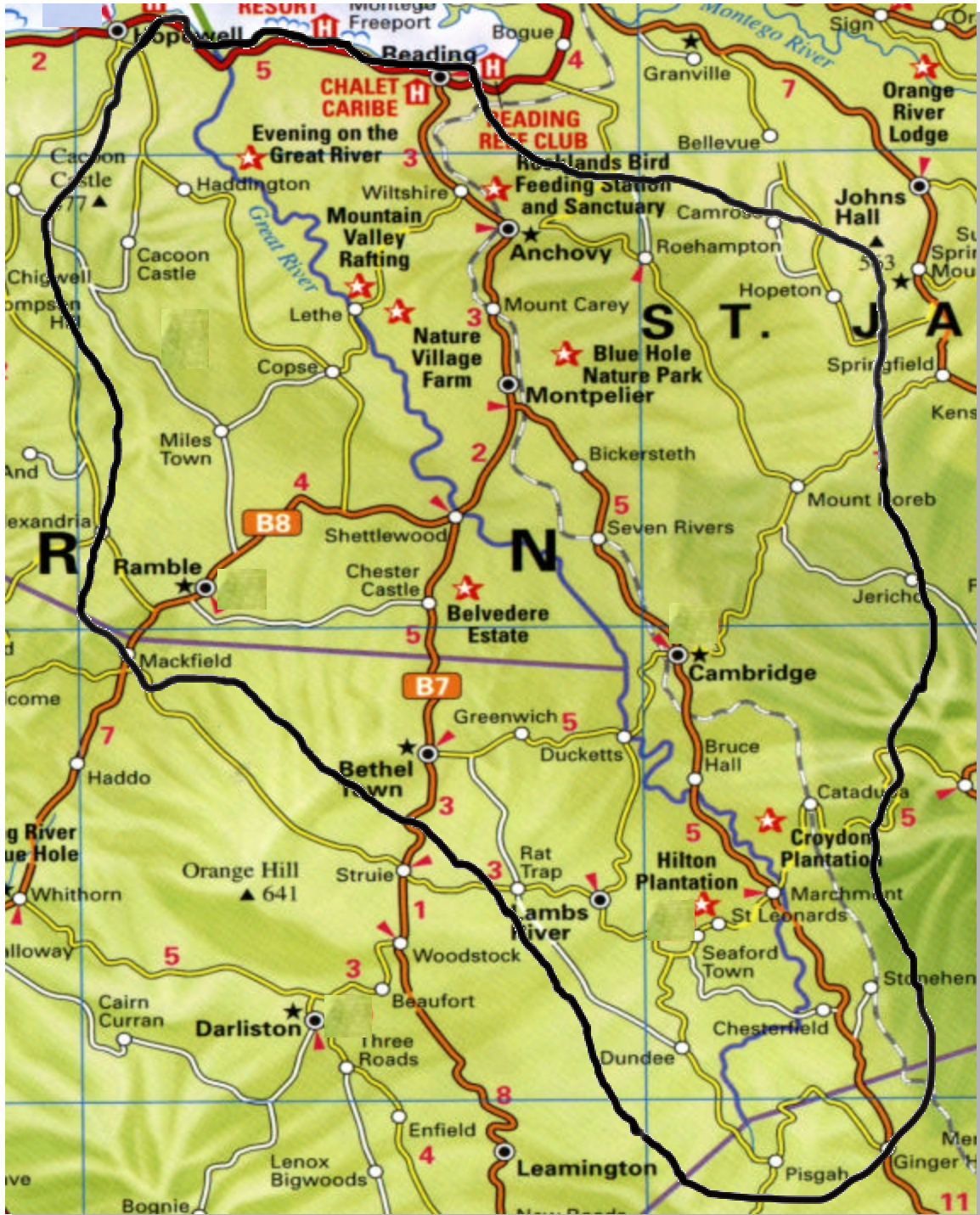
- Although there is a low level of environmental awareness among residents in GRW respondents were concerned about the quality of the watershed.
- Although many agencies are involved in C & E activities only limited enforcement of environmental laws and regulations have been taking place.
- There is a stigma attached to 'Informers', but only a few are seen as traitors.



- Garden clubs seem to be a thing of the past.
- Very few Burial Schemes exist (only one identified in GRW).
- There is a great potential for partnership with Church Youth Clubs.
- Many residents in various communities of GRW are willing to support C & E activities but need educational and organizational leverage.

Some recommendations were made to foster and sustain effective community stewardship. The draft report was presented/distributed at a GRWMC & TF meeting at the RADA complex in Montego Bay on November 12, 2002. Reasonable discussions followed. Members present were asked to study the document and send comments to the consultant by Friday, November 22, 2002. The feedback received is incorporated in the final report.

Figure 1 Map of the Great River Watershed



## 1.0 Background

The island of Jamaica is divided into twenty-six (26) Watershed Management Units (WMUs) comprising of all the levels from the mountains to the sea and containing streams and rivers. The RSRW Project is being implemented in two watersheds in the island, namely the Great River, and the Rio Grande Watersheds. Watershed is WMU #3.

### 1.1 Description of Study Area

The Great River Watershed is located in Northwestern Jamaica and covers an area of approximately 327.26KM<sup>2</sup>. It spans four parishes viz; Hanover, St. James, Westmoreland and St. Elizabeth. It raises its head in Pisgah, St. Elizabeth then provides parish boundaries between Westmoreland and St. James also St. James and Hanover. The Great River Watershed therefore falls under four local government administration (Parish Councils). There are some differences noted in social and economic development. This is more evident in the condition of the roads.

Communities are spread through out the watershed in a number of rural villages and small towns. Farming is the main livelihood for many residents of the Great River Watershed. Small holdings are mostly on steep sloping lands. The majority of the farmers are small farmers with plots of less than four hectares, but there are some large estates, including the Belvedere Farms, The Montpelier Citrus Company and Croydon Plantation.

The estimated population of GRW is 85,217 with a density of 260.39 persons per square kilometer (NRCA, 1999). It should be noted that the spread is not uniform. The average household has 3.9 persons (statin 1999). Approximately 50% of the households are headed by women.

### 1.2 Expected Output

The following outputs are expected of the consultancy:

1. Work for the consultancy based on initial interviews.
2. A complete draft report containing:
  - (a) Organizational Assessment of existing and potential organizations involved in compliance and enforcement in the Great River Watershed.
  - (b) An inventory of equipment.
  - (c) A database of contact information for all personnel involved in C & E activities in the GRW.
  - (d) A matrix of environmental violations in the Great River for the past three (3) years.
  - (e) The potential of other groups to support compliance and enforcement.
  - (f) Recommendations on community stewardship.
3. Presentation at a workshop of the GRWMC & ETF.
4. Final report that documents the analysis of activities above and incorporates feedback from the workshop.

## 2.0 Methodology

Various strategies were used to achieve the expected output. Meetings, interviews and discussions pertaining to the study were held with relevant agencies and individuals in Public and Private Sectors. Literature Review was also carried out. Appropriate tools were thereafter developed to collect the necessary data. Data collection was divided into three segments, namely Questionnaires, Focus Groups and a Review of Environmental Violation in GRW that were enforced through the legal process.

### 2.1 Questionnaire

The Questionnaire was designed to collect data from the following output:

- (a) Organisational Assessment
- (b) Inventory of Equipment
- (c) Database of Existing organizations. Pre-testing was done at two organizations outside GRW. These organizations have similar characteristics as the studied organizations, including roles and responsibilities. After completing the necessary adjustments to the Questionnaires arrangements were made to have same administered. All Questionnaires were administered by the consultant via face to face interviews. A total of twenty-two (22) organizations were interviewed by the consultant as per Table I

**Table I**

<b>ORGANIZATION TYPE</b>	<b>NO. INTERVIEW</b>
STATE AGENCY	10
CBO/NGO	5
PRIVATE SECTOR	7
<b>TOTAL</b>	<b>22</b>

### 2.2 Focus Groups

The Focus Group route was chosen to capture the data required for two output V12

- (a) Potential of other groups to support C & E activities
- (b) Recommendations and community stewardship

Twelve (12) selected focus groups questions were used (See Appendix 4). Communities were randomly selected. Table II gives a breakdown by parish.

**Table II Focus Groups By Community And Parish**

PARISH		COMMUNITIES
(A)	ST. JAMES	1. Catadupa 2. Cambridge 3. Stonehenge 4. Montpelier 5. Mafoota
(B)	HANOVER	6. Haughton Grove 7. Miles Town 8. Lethe
(C)	WESTMORELAND	9. Retrieve 10. Seaford Town

The parish of St. Elizabeth was not included in the focus group as only a small area of the parish lies within the GRW.

A total of 50 respondents participated. Five respondents were chosen from each of the above ten communities. The selection of respondents was based on availability; a flexible approach was however used in the composition. The CBO representative from each community gave valued assistance in the selection process.

Each group was asked the same pre-selected questions inclusively but not confined to the list. High levels of interest and participation was displayed by the respondents. A summary of responses from each group was recorded (written and audio taped).

### 2.3 A Review of Court Cases for Environmental Violations

In order to collect data from the above output, visits were made to three Parish Courts Administration namely: St. James, Hanover and Westmoreland. Some limitation was experienced at this level. Although data was presented to the consultant, for legal reasons access was not granted for review of the records. Two EWS offices were also visited namely: Albion, Montego Bay which has jurisdiction for St. James and Trelawny and Lucea which has jurisdiction for Hanover and Westmoreland. At both locations fruitful discussions were held and records were examined.

### Organizational Assessment According to Scope and Focus

AGENT	TYPE	SCOPE	POLICY FOCUS
NEPA	GOVT.	Regional	Planning & Environment
RADA	GOVT.	Regional	Agriculture
FORESTRY	GOVT.	Regional	Conservation
PCA	GOVT.	Extra Regional	Pesticide Management
POLICE	GOVT.	Regional	Enforcement

AGENT	TYPE	SCOPE	POLICY FOCUS
MBMP	NGO	Local	Marine Mgt./Protection
EWS		Regional	C & E
P/HEALTH	GOVT	Regional	Wellness Health Ed.
SSU	NGO	Regional	Sanitation
NWC	GOVT.	Regional	Water Q/Q
SDC	GOVT.	Regional	Social C/B Development
P/Cs	GOVT.	Parish	Service Delivery Infrastructure Development
R for Life	NGO	National	Environment

#### Analysis of Agencies according to levels of Involvement

AGENCY	LEVELS OF INVOLVEMENT				REMARK
	COMPLIANCE		ENFORCEMENT		
	Strong	Week	Strong	Week	
NEPA	T		T		
RADA	T			T	
Forestry	T		T		
Public Heath	T			T	
Parish Councils	T		T		
SDC	T			T	
NWC	T			T	
SSU	T			T	Marine
MBMP	T				
Police	T				

#### Analysis of Agencies according to type of Environment

AGENCY	LEVELS OF INVOLVEMENT			
	COMPLIANCE		ENFORCEMENT	
	Direct	Indirect	Direct	Indirect
NEPA	T			T
RADA	T			
Forestry	T			T
Public Heath	T			T
Parish Councils	T		T	

AGENCY	LEVELS OF INVOLVEMENT			
	COMPLIANCE		ENFORCEMENT	
	Direct	Indirect	Direct	Indirect
SDC		T		
NWC	T			
SSU	T			
MBMP	T			T
Police	T			T

## 3.0 Findings

### 3.1 Organizational Assessment

#### ***Profile Environment And Planning Agency (NEPA)***

NEPA is a merger of the National Resources Conservation Authority (NRCA) Town Planning Dept. (TPD) and the Land Development and Utilization Commission (LDUC).

#### Mission

NEPA's Mission is to ensure protection of the environment and orderly development in Jamaica by working in collaboration with our public sector partners, the private sector, stakeholders and the general public toward achieving sustainable development.

To promote sustainable development by ensuring protection of the environment and orderly development in Jamaica.

#### Core Functions

- Monitoring the natural resource assets and the state of the Jamaican environment.
- Processing and approval of applications for:
  - Environmental permits and licences
  - Planning and development
  - Change of agricultural land use
  - Beach use
  - Construction and operation of industrial facilities listed on the prescribed project list such as power generation plants, sanitary land fills and petroleum storage facilities.
  - Sewage discharge
  - Industrial waste discharge
- Preparing town and parish development plans, development orders, national environment planning and developmental strategies and action plans
- Enforcing planning approvals in the areas covered by development orders.
- Developing state of the art environmental and land use database systems.
- Engaging in extensive and continuous public education programmes.

#### Acts

Until a National Environment and Planning Act is promulgated, NEPA operates under the mandate of the following Acts:

- Natural Resources Conservation Authority Act



- Wild Life Protection Act
- Beach Control Act
- Watersheds Protection Act
- Town and Country Planning Act
- Land Development and Utilization Act

### NEPA's Structure

NEPA's Chief Executive Officer (CEO) (CEO) is Mr. Franklin McDonald. The organization has nine divisions which are further broken down into branches. These divisions are:

#### Regulatory & Legal Services Division

- Applications Secretariat Branch
- Legal Services Branch
- Board Secretariat Branch

#### Policies Programmes & Projects Coordination Division

- Strategic Planning & Policies Branch
- Projects Branch
- Corporate Services Division
  - Human Resource & Development Branch*
  - Finance & Accounts Branch*
  - Operations Management Branch*
- Public Education & Community Outreach Branch
- Information Technology Division
  - Data & Applications Management Branch*
  - Network Operations Branch*
- Compliance & Regional Services Division
  - Enforcement Branch*
- Planning & Development Division
  - Development Control Branch*
  - Local Area Planning Branch*
  - Land Use Branch*
  - National Spatial Planning & Research Branch*
- Environmental Management Division
  - Pollution Prevention & Control Branch*
  - Environmental Standards & Regulations Branch*
  - Environmental Monitoring & Assessment Branch*
- Conservation & Protection Division
  - Protected Areas Policy & Management Branch*
  - Sustainable Watersheds Branch*
- Affiliated Agencies
  - Forestry Department*

*Department of Mines and Geology  
KSAC and Parish Councils  
Ministry of Foreign Affairs & Foreign Trade  
Jamaica Defense Force Coast Guard  
Jamaica Constabulary Force  
Office of Disaster Preparedness and Emergency Management*

The compliance and regional services division seeks to encourage voluntary compliance with act administered by NEPA and associated environmental regulations. The division investigates suspected violations, issues enforcement notices and follow-up with prosecution if necessary.

Acts enforced are Breach Control, watershed protection, wild life protection, town and country, planning and the land development and Utilization Act. In addition there are Acts monitored with other agencies e.g. The Forest Act, Fishing Industry Act, Anti-litter, Public Health, Pesticide, Quarries, Maritime Area and the Factories Act.

This Agency is very strong and effective in compliance and enforcement activities within the GRW. It is presently understaffed, however plans are advanced for increased staff and expanded? Services at the Western Division.

### **Montego Bay Marine Park**

Pier One, Howard Cooke Boulevard, Montego Bay

The mission is threefold, to: restore, conserve and manage Montego Bay's marine coastal resources. Through effective public education, technical support, monitoring and interpretive enforcement, it seeks to maximize the economic benefits to the park's traditional users, the community, the nation and to all mankind.

Heavily involved in Marine Compliance and Enforcement

Special group focus on fishermen, watersports CBO's and selected schools in St. James

Staff complement of eleven (11)

Depend heavily on volunteers

Achievements are many

Existing equipment educational and operational needs. Marine VHS to be better able to communicate from far out at sea.

### **Sanitary Support Unit (SSU)**

Ministry of Housing Complex  
Albion - St. James

Contact Person: Mass-lieattLer McFarlane - Field Officer

### Mission

To create sustainable sanitary solutions for communities in need. Improve Environment awareness in residents of these communities. This organization has a good record; of achievements. It is strong in compliance, has been an excellent partner in R2RW activities but

needs an increase in staff at the St. James office. It is a National Agency but operates a valuable service in St. James. Its focus is the sanitary solutions and public awareness in health and the environment.

### ***RADA Western Region***

Catherine Hall, St. James

Mr. Trevor Martin - Zone Director

#### Mission

To promote agricultural production to facilitate marketing and provide the social services necessary to improve the quality of life for families. RADA operates as the extension arm of the ministry of Agriculture (MOA) in the Western Division. The M.O.A. boasts a large building complex which houses both the regional and parish administration. The complex also houses other branches of the M.O.A. namely Forestry Dept and the Rural Physical Planning Unit. NEPA and P.C.A. are also accommodated in the complex. This agency has blazed a trail of solid achievements throughout GRW, especially in the area of soil conservation, production and marketing. It is strong in compliance and community development.

### ***Forestry Department***

(RADA complex - Catherine Hall - St. James)

#### Mission

To Provide efficient technical and professional leadership in the conservation, protection, management and development of the forestry resources of Western Jamaica. It is a branch of the Ministry of Agriculture. Its regional parish offices are located in the RADA Complex. Engaged in conservation, compliance and enforcement, some of its economic development include the sale of forestry produce. It has wardens placed in all four parishes of the watershed. It is strong in compliance and enforcement, also public awareness. It has great partnership potential.

### ***National Water Commission (NWC)***

(Bogue Industrial Estate - Montego Bay)

#### Mission

To provide and distribute potable water. To effectively treat and dispose of wastewater. Protection of source and quality testing. The regional and parish offices are located in Montego Bay. Other parish offices are in Trelawny, Hanover and Westmoreland.

Very active in compliance and enforcement throughout the GRW. Have lab facilities for water quality monitoring. Displays great partnership capacity.

### ***Social Development Commission (SDC)***

(Albion - St. James)

#### Mission

Capacity building in the development process.

Focus: Social development with special emphasis on youth.

Strong on community development. Windows of opportunity exist for greater partnership. Its regional and parish office is at Albion near Montego Bay. Parish offices are located in other parishes in Western Jamaica. S.D.C. provides a network of community development officers throughout GRW.

### ***Pesticide Control Authority (PCA)***

(RADA Complex Culture Hall - St. James)

#### Mission

The authority takes responsibility for making rules and regulations governing pest control operations in Jamaica, determining the categories for licensing, examining and recommending applicants for licensing. The Western Division was established in June 2001. At first its main focus was the safe disposal of pesticide (large farms) and the proper retailing of harmful chemicals. After a successful programme the emphasis shifted to the training and licencing of pest control operators.

### ***Montpelier Research Station***

(Montpelier - St. James)

#### Mission

To provide meaningful results from research on crops and livestock. This agency has an excellent track record in both crop and livestock development. There is currently a partnership arrangement with R2RW project to produce seedlings. Great potential exists for greater partnership. It is one of two research stations of the Ministry of Agriculture, the other is the Bodles Research Station.

### ***Hanover Environmental Trust (HET)***

The Hanover Environmental Trust was formed in July 2001, with a small membership of twelve. Present membership stands at twenty-five (25).

#### Mission

To prevent further environmental degradation in Hanover

Protect the Natural Resources of the parish

Preserve its ecological integrity

Promote sustainable development through organized community effort.

Activities:

- (a) Creating greater public awareness in environmental issues
- (b) Increasing advocacy in health and environmental issues and capacity building.
- (c) Organizing and maintaining school environmental clubs

(b) Planning and implementing beach and gully clean-ups

Meetings are held on third Wednesdays, 6 p.m. at the Round Hill Sports Club. The organization stands ready to support GRWMC efforts for effective watershed management, especially in the area of school environmental clubs.

### **3.2 Potential Of Burial Schemes/Garden Clubs, Churches And Other Organizations To Support C&E**

#### ***Burial Schemes***

In the past Burial Schemes were active in most parishes and in many communities throughout Jamaica. A small number of branches still exist in some parts of western Jamaica. In the GRW most of the popular groups have faded; only one active branch remains in the entire GRW i.e. Chester Castle.

This branch has a membership of about twenty and meet once weekly. The president is Mr. Luther Jones.

Article 3 section one of its constitution states that the objectives are as follows:

To make provision for a fund of money by small subscription for the relief and maintenance of members.

1. Membership is open to all persons who wish to join.
2. Ensuring money is paid on the death of a member or for funeral expenses.
3. Juveniles up to the age of sixteen years can be members providing that their parents/Guardians are responsible for their applications.
4. The society shall be managed by a governing body known as the Supreme Council.

Even if other defunct branches like Anchovy and Cambridge were to be reactivated, the potential of these groups for support of C & E would not be so great.

#### ***Garden Clubs***

This group also seems to be a thing of the past. No active club could be identified in GRW. Some residents mostly female feel that such groups could be reactivated. This venture could very well be a part of the stewardship programme, tied in with the drive for backyard and community composting. The theme could be "Beautifying communities and lives in GRW."

#### ***Churches***

Church leaders and members in GRW express willingness to support C&E. Capacity building is however necessary. Most of the churches have vibrant Youth Departments. Watershed Management and Environmental Awareness could be included in their programmes and projects.

A "GRW Sunday" could be developed and annual event during World Environment Week in June. On this Sunday instead of the normal sermon a guest speaker would be invited to speak on chosen Environmental/ Watershed topic.

## Potential Groups for Support of C & E

### 1. Burial Scheme – Chester Castle

Mr. Luther Jones, President  
Mr. K. Hibbert, Member

Tel: 957 – 1346

### 2. Friends of Hopewell

Dr. Clive McKenzie  
Ms. Lorraine Allen

Tel: 956 – 5050  
Tel: 956 – 5363

### 3. Hopewell Deliverance Centre {Youths Dept.}

Rev. Delbert Blair, Pastor  
Mr. Jeremiah Dehaney, Youth Leader

### 4. Kiwanis Club of Anchovy/Cambridge

Mr. Joe Williams  
Mr. Hector Christie

Tel: 605 –0966

### 5. Hopewell Jayceees

Ms. Karen Grant  
Dwight Brown

Tel: 956 – 7050

### 6. Catholic Youth Club Seaforth Town

Mr. Ron Kamica

### 7. Baptist Youth Fellowship – ST. Leonards

Rev. D. Nugent

### 8. Castle Mtn. Eunique Y/C

Mr. C. Moore, President  
Mr. A. James, Secretary

Tel: 957 –2757  
Tel: 957 –2757

### 9. 4-H Club

Ms. Janet Lowe

Tel: 940 – 5360

### 10. JAS

Mr. Glendon Harris

Tel: 912 – 5269

### 11. Cambridge Development Committee

Mr. Eric Foster

Tel: 912 – 2249

### 3.3 Inventory of Equipment

Agencies	Computers	Cars	Cameras	TV	Type-Writers	Trucks	Projectors			Photo - Copiers	VCR	CB Radio	Fax	Others Specify
							Multi-m	O/Head	Movie					
NEPA	T													
RADA	T				T			T		T		T		
FORESTRY	T		T			T			T	T		T		
MT. PELIER R/S	T		T			T	T	T	T		T	T	Lab Facilities	
PCA	T	T	T		T	T	T	T	T	T		T		
POLICE	T	T	T	T	T	T			T		T	T		
P/HEALTH	T													
SDC	T		T		T	T	T		T	T		T		
NWC	T	T	T			T	T	T	T	T		T	Lab Facilities	
P/Cs	T	T				T	T	T	T		T	T		
MBMP	T		T			T	T	T	T		T	T	Boats	
SSU	T	T	T		T	T	T	T	T	T				
EWS	T		T		T	T				T		T	Tractors	
MT. PELIER CC	T		T		T	T	T		T	T	T			

### 3.4 Classification of Inventory According to Type

Communication	Audio Visual	Technical/ Administration	Transportation
Telephones	T.V.	Computers	Cars
Fax	V.C.R.	Printers & Scanners	Boats
CB Radio	PROJECTORS	Photocopiers	Trucks
	Multimedia	Cameras	Tractors
	Overhead		
	Movie		

#### ***Availability and Pooling Possibilities***

There exists within the GRQ numerous government and quasi-government agencies, each with its own mandate. In some cases there are duplications, overlaps and even conflicting actions.

In the government organizations assessed, NEPA, RADA, FORESTRY, NWC, PUBLIC HEALTH and SDC are the lead agencies that are best equipped to support compliance and enforcement in GRW.

The inventory equipment has shown that there is not much resources to share. When asked what should your likely improved role be in support of compliance and enforcement? The majority of agencies responded "Public Awareness."

There is one NGO that stands out in the organizational assessment i.e. Montego Marine Park. If a pool of equipment was to be provided by the R2RW project I would not hesitate in recommending Montego Bay Marine Park as the custodian. The final decision however rests with the GRWMC.

The following equipment are envisaged:

- 6 hand held radios (50 watt)
- 2 base radios (50 watt)
- 2 mobile radios
- 1 digital video camera
- 1 photocopy machine
- 1 slide projector
- 1 multimedia projector
- 1 GPS (global positioning device)

### 3.5 Current Status of Compliance and Enforcement in GRW

Despite the many and varied pieces of environmental legislations compliance and enforcement in GRW has been low keyed. Laws by themselves do not change behavior. There is need to build political commitment, especially at the local level of government. There needs to be active participation by all stakeholders, rather than being passive recipients.



Some constraints to enforcement include (a) low awareness of environmental laws (b) Low literacy levels and (c) Low priority given to environmental violations brought to the courts in Western Jamaica environmental cases have always been put on the back burner and continue to be drawn out over long periods of time. This situation has generated great frustration among enforcers of environmental regulations, especially the Public Health Inspectors Group.

There is also clear evidence of a breakdown in values and attitudes within the communities. The issue of community informers was put to members of the focus groups. A small percentage, about 10% of respondents feel that informers are traitors. The majority said that breaches should be reported and offenders punished. They feel however that some type of incentive should be provided or alternate income generating projects be introduced. Some stated that offenders are known to them but they can't risk reporting because they are afraid of reprisals. Please see matrix of environmental violations brought to the courts in three parishes over a three-year period viz June 1999 – July 2002.

The majority of cases brought by the police were under the Litter Act, while those from EWS were more diverse.

### **3.5.1 Environmental Violations brought to Court**

#### **St. James**

<b>Act</b>	<b>Police</b>	<b>Phi's</b>	<b>Envt. Wardens</b>	<b>Total</b>
Public Health		16		16
Litter	10		1	11
NRCA	4		4	8
Other	3		1	4
<b>Total</b>	<b>17</b>	<b>16</b>	<b>6</b>	<b>39</b>

#### **Hanover**

<b>Act</b>	<b>Police</b>	<b>Phi's</b>	<b>Envt. Wardens</b>	<b>Total</b>
Public Health		11		11
Litter	5			5
NRCA	2		4	6
Other	1			1
<b>Total</b>	<b>8</b>	<b>11</b>	<b>4</b>	<b>23</b>

#### **Westmoreland**

<b>Act</b>	<b>Police</b>	<b>Phi's</b>	<b>Envt. Wardens</b>	<b>Total</b>
Public Health		9		9
Litter	4			4
NRCA			3	3

Act	Police	Phi's	Envt. Wardens	Total
Other	1		1	2
<b>Total</b>	<b>5</b>	<b>9</b>	<b>4</b>	<b>18</b>

### 3.5.2 Analysis of Environment Violations according to Act

Act	St. James	Hanover	Westmoreland	Total
Public Health	16	11	9	36
Litter	11	5	4	20
NRCA	8	6	3	17
Other	4	1	2	7
<b>Total</b>	<b>39</b>	<b>23</b>	<b>18</b>	<b>80</b>

### 3.5.3 Analysis of Environment Violations according to Officers

Act	Police	Public Health Inspectors	EWS	Total
Public Health	-	36	-	36
Litter	19	-	1	20
NRCA	6	-	11	17
Other	5	-	2	7
<b>Total</b>	<b>30</b>	<b>36</b>	<b>14</b>	<b>80</b>

### Database

Name	Position	Contact Information
<b>GOVERNMENT AGENCIES</b>		
<b>Forestry</b>		
Mr. Durval Grapine	Forestry Supervisor	Tel: 952 – 0848 Fax: 979 – 3318
Mr. Michael Barrett	Regional Forestry Officer	
Mr. Lindel Blake	Warden – Burnt Ground	Tel: 840 – 8809
Mr. Desmond Greenfield	Warden – Westmoreland	
Mr. Carlton Davis	Warden – Westmoreland	
Mr. Colin Ivy	Forester – Dias, Hanover	
<b>RADA</b>		
Mr. Horace Underhill	Parish Manager	Tel: 952 – 1876 Fax: 952 – 3661
Mr. Venton Bucknor	Marketing Officer	Tel: 952 – 1876 Fax: 952 – 3661

<b>Name</b>	<b>Position</b>	<b>Contact Information</b>
Mr. Roy Wilks	Soil Conservation Officer	Tel: 952 – 1876 Fax: 952 – 3661
Mr. Trevor Martin	Zone Director	Tel: 952 – 1876 Fax: 952 – 3661
Miss Sadie Dixon	Ext. Officer- Catherine Hall	Tel: 952 – 1876 Fax: 952 – 3661
Mr. Stanley Dodd	Parish Manager – Hanover	
Mr. E. Calame	Parish Manager – Westmoreland	
Mr. Howard Hinds	Parish Manager – St. Elizabeth	
<b>Mt. Pelier Research Station</b>		
Mr. R. Headley	Snr. Research Officer	
Mr. F. Chambers	Farm Manager	Tel: 605 – 0821 Fax: 605 – 0898
Mr. O Gilpin	Crop Research Officer	Tel: 605 – 0821 Fax: 605 – 0898
<b>NEPA</b>		
Mrs. Andrea Steele	Investigator	Tel: 952 – 1876
Mr. Barrington Taylor	Compliance Officer	
Mr. Anthony Gordon	ENVT. Officer – Hanover	
Mr. Nedson Gardner	ENVT. Officer – Westmoreland	
Mr. Michael Spence	ENVT. Officer – St. Elizabeth	
<b>Pesticide Control Authority</b>		
Mr. Leroy Benjamin	Senior Inspector	Tel: 971 – 0054 Fax: 971 – 6600
Mr. Lee Taylor	Inspector	Tel: 971 – 0054 Fax: 971 – 6600
<b>NWC</b>		
Mr. Don Streete	Chairman GRW MC.	Tel: 929 – 3540
Mr. Richard Meggo		Fax: 929 – 2778
Ms. Lisa Golding		Tel: 952 – 1640 – 1
<b>SDC</b>		
Ms. Tracy Clarke	Regional Director	Tel: 952 – 1527 Fax: 940 – 7068
Mr. Courtney Cole	Programme Manager	Tel: 940 – 6596 Fax: 940 – 7068
Mr. John Whyte	Field Service Manager	Tel: 940 – 6596

<b>Name</b>	<b>Position</b>	<b>Contact Information</b>
		Fax: 940 – 7068
<b>Parish Councils</b>		
Mrs. Sophia Kerr – Reid	St. James Dir. of Planning	Tel: 952 – 5500- 2/952 – 4066
Mr. Desmond Dorman	Hanover – PRO	Tel: 956 – 2305/956 – 2958
Mr. Enoch Humphrey	Do. Asst. Supt.	Tel: 956 – 2305/956 – 2958
Mr. Trevor Jangalie	Westland. Do.	Tel: 955 – 2647/955 – 2797
Mrs. P. Sinclair-Stair	Do. Sec/Mgr.	Tel: 955 – 2647/955 – 2797
Mr. Delroy Brown	St. Elizabeth Asst. Supt.	
<b>Health Department</b>		
Dr. Shelia Campbell-Forrester	Director WRHA	Tel: 952 – 3678
Mr. Basel McFarlane	Regional CPHI	Tel: 952 – 3678
Mr. Desmond Clarke	CPHI Hanover	Tel: 979 – 7820- 1
Mr. Noel Ruddock	CPHI Westmoreland	Tel: 955 – 2929
Mr. Lloyd Stewart	CPHI Hanover	Tel: 956 – 2604
Mr. Lester O. Beharie	CPHI St. Elizabeth	
<b>Police</b>		
ACP Linton Lattie	Area 1	
SSP Gilbert Kamica	Area 1	
Const. C Anderson	Cambridge	
<b>Environmental Warden Service (EWS)</b>		
Mr. Lloyd Service	Nat. Coordinator	Tel: 928-0082
Mr. Auther Cole	Regional Supervisor	Tel: 956-3948
Mr. Claude Lawrence	Warden - Hanover	
Mr. Lincoln Dixon	Warden - Hanover	
Ms. Sherian Smith	F/Warden - Hanover	
Mr. Malachi Forrester	Warden – St. James	Tel: 952-9851
<b>NON-GOVERNMENT ORGANIZATIONS</b>		
<b>Montego Bay Marine Park</b>		
Ms. Jill Williams	E/Director	Tel: 952 – 5619/940 – 0659
Ms. Flainia Goodly	O/P	Tel: 952 – 5619/940 – 0659
Ms. Tracy- Ann Gabbidon	Public Awareness Officer	Tel: 952 – 5619/940 – 0659

<b>Name</b>	<b>Position</b>	<b>Contact Information</b>
Mr. Leroy Muir	Ranger	Tel: 952 – 5619/940 – 0659
<b>Sanitary Support Unit (SSU)</b>		
Ms. Griffiths	Manager	Tel: 940 – 2933- 4/940 – 5540
Ms. Heather Mcfarlane		Tel: 940 – 2933- 4/940 – 5540
Ms. Rosa Johnson		
<b>Hanover Environmental Trust</b>		
Mr. Leon Hopkins	Executive Director	Tel: 956 – 5366
Mrs. Hope Marks- Griffiths	Treasurer	

### **Community Based Organization**

<b>Communities</b>	<b>Organizations</b>	<b>Contact Persons</b>	<b>Phone</b>
Great River	Citizens Association/Youth Club	Andrea Brown	800 – 8209
		Derrick Brown	
Anchovy	Community Consultative Committee	Mr. H. F. Smith	684 – 9080
	Police Youth Club	Sgt. R. Wright	
Lethe/Eden	Youth Club	Miss Janet Boyd	361 – 7532
		Mr. Ian McCallum	
		Mr. Geraldo Edwards	
Miles Town/Content	Citizens Association	Mr. Renford Thompson	
	Youth Club	Mr. Roy Foster	
Ramble	Youth Club (Vibrant)	Miss Jackie Murray	
Shettlewood	Police Youth Club	Mareen Reid	809 – 9602
		Joel McCloud	
Bethel Town	Community Development Council	Cebert McFarlene	957 – 3276
	Western Star Youth Club	D. Delaney/N. Clarke	
Mafoota	Citizen's Association	Mrs. D. Hunter/Mrs. Pamela Campbell	
	Youth Club	Nicolas Coleman	
	Sandals/Mafoota Co.	Mr. R. Bennett	
Seven Rivers	Youth Club	Sheron Tatham	424 – 9621
		Paul Flowers	
Cambridge	Police Youth Club	Nurse Doret Grant	818 – 1952

Communities	Organizations	Contact Persons	Phone
	Youth Band P.T.A	Oral Spence	
Mt. Pelier	Police Youth Club	K. Levy/Lloyd Brissett	
Retrieve	Local Advisory Management Group	Noel Scott	
	Youth Club	Dianna Williams	
Seaford Town	Sunshine Youth Club	M. Johnson	
	Burial Scheme	Kamaika	
Copse	Police United Youth Club	Monica Higgins	952 – 2836
		Kerron Lewis	912 – 0118
Chester Castle	P.T.A		
	Burial Scheme		
	Citizen's Association		
Woodland	Police Youth Club	Marlon Allen	793 – 7934
Stone	Citizen's Association	Mrs. Evette Williams	846- 4689
		Mrs. Joyce Anglin	352 – 3021
		Miss Carol Robinson	424 – 8365

#### 3.5.4 Private Sector

Name	Position	Contact Information
<b>Mt. Pelier Citrus Company</b>		
Mr. Nicholas Jones	Managing Director	Tel: 956 – 4747 Fax: 956 – 4749
Ms. Claudette Lewis	General Director	Tel: 956 – 4779 Fax: 956 – 4749
<b>Animal Farm – Lethe Hanover</b>		
Dr. R. Williams	Owner	Tel: 815 – 4104/979 – 8466
Ms. Melisa Robinson	Secretary	Tel: 815 – 4104/979 – 8466
<b>Mountain Valley Rafting &amp; Plantation Tour</b>		
Mr. Francis Tulloch	Owner	Tel: 956 – 4920/956 – 4964
Mrs. D. Tulloch	Manager	Tel: 956 – 4920/956 – 4964
<b>Native Village farm Eden, St. James</b>		
Ms. Valrie Thorpe	Manager	Tel: 912 – 0172

Name	Position	Contact Information
<b>Belvedere Estate and Plantation Tour</b>		
Mr. Patrick McGann	Owner	Tel: 694 – 1004
Mr. Dalton Mcfarlane	Manager	Tel: 694- 1004
<b>Round Hill Hotel &amp; Villas</b>		
Cleveland Wright	ENVT. Manager	Tel: 956 – 7050- 5/956 – 7505
Leonard Henry	OPR. Manager	Tel: 956 – 7050- 5/956 – 7505
<b>Sandals Montego Bay</b>		
Ms. Donna Yitshak	ENVT. Manager	Tel: 979 – 9130
Ms. Arlene Lawrence	ENVT Officer	Tel: 952 – 5510
<b>Coffee Development Co. Seven Rivers</b>		
Mr. Aston Clarke	Regional Manager	Tel: 952 – 6769 Fax: 605 – 0441
Mrs. Aneita Banton	Manager	Tel: 912 – 6769 Fax: 605-0411
<b>Sandals Mafoota Agriculture Cooperative</b>		
Mr. R. Bennett		
Mr. Deanna Hunter		
Ms. Campbell		
<b>Cambridge Development Com.</b>		
Mr. Eric Foster		Tel: 912 – 2249
<b>Croydon in The Mountains</b>		
Dalkeith Hanna		Tel: 979 – 8250

**List of Schools in GRW**

Schools	Contact Persons	Telephone #
<b>St. James</b>		
Anchovy Primary	Mr. Gerald Lawrence	956-4180
Bickersteth Primary	Mr. Vivian Douglas	605-0478
Vaughansfield Primary	Mr. Eann Singh	
Mount Horeb All Age	Ms. Buelah Graham	340-6532
Anchovy High	Dr. Walton Small	956-4000
Catadupa Primary & Junior High	Mrs. Adna Longmore	605-9728

Schools	Contact Persons	Telephone #
<b>Hanover</b>		
Mount Ward Primary	Mr. Orson Beckford	823-0304
Cacoon Castle All Age	Mrs. Clover Kerr	824-7137
Watford Hill All Age	Mr. Ralston Edmondson	
Knockalva Technical	Mr. Ephraim Morgan	816-8626
Knockalva Agricultural	Mr. R. Henry	
Lethe All Age	Eileen Brown	912-0118
~ Bethel Primary & Junior High	Ms. Orlette Moncrieffe	
<b>Westmoreland</b>		
Bethel Town All Age	Mr. Cleghorn	957-2047
Dundee All Age	Mrs. Beryl Williams	773-6973
Mt. Hermon All Age	Mrs. Doreen Neale	640-6359/ 846-5613
Retrieve All Age	Mr. Noel Scott	605-9504
St. Leonards All Age	MiS Maxine Maxwell	



## 4.0 Recommendations

The concept of the "Watershed Stewardship Process" reviewed is sound, relevant and practical. I strongly agree that for community stewardship to be effective there needs to be a balance between the needs of the citizen and the goals of the Project. It is therefore necessary to provide appropriate incentives that enhance local livelihoods, while striving to promote sustainable management practices.

For maximizing effectiveness and sustainability we have to prepare a package and sell this wonderful watershed management product to the GRW residents as attractive and desirable as possible. It is important that the residents buy into the reality that they are a part of the watershed and the watershed is a part of them, therefore if "we take care of the watershed, the watershed will take care of us".

Residents must be encouraged to develop the need to be a part of the action, to be active participants rather than being passive recipients of those things provided for them. They must develop pride in being a steward of the watershed. The following are recommendations on how Residents in Communities of G.R.W. can best support compliance and enforcement activities.

### 1. Massive Public Awareness Programme

#### Objectives

- To develop better understanding of Environmental Issues and watershed management practices
  - Promote self-responsibility
  - Understanding Impacts. Eg. How certain watershed practices can affect their pockets and their health.
2. Strengthen existing community groups including churches youth clubs.
- Encourage the inclusion of environment issues on their agenda and develop partnership for sustainable watershed practices.
3. Organize and maintain school environment clubs/ Junior, Rangers Clubs at schools in GRW. The multiplier effect is tremendous.
4. Promote Best Practices Programmes including "Navel String" planting of trees.
5. Promote GRW logo, label and jingle.
6. Intensify, Capacity Building in GRW communities in collaboration with S.D.C., S.S.U. and other relevant agencies.
7. Establish partnership with JAMAL, Provide a Literacy programme to facilitate the many residents who need same. Lessons could utilize health/Environment/watershed management messages.
8. Encourage the planning and implementation of Clean-up days and other environmental friendly activities by community groups. Involve everyone, residents will in time develop the sense of belonging and improve selfworth.

9. Intensify awareness of R2RW Grant Fund and organize more training in project proposal for CBO's and school environmental clubs.
10. Establish an Annual Miss GRW Mother Earth competitions on Earth Day each year.
11. Organize GRW social events sponsored by private sector enterprises eg. Domino Knock out competition among CBOs. Events like these help to cement relationships and promote bonds of friendship.
12. Establish GRW center at Mt. Pelier Show Grounds. The following uses:
  - a) HQ for GRWCo Ltd.
  - b) Market facilities twice weekly for agricultural products, Art & Craft and all other products and provision of GRW.
  - c) Demonstration/cultural centre.
  - d) Annual GRW Expo and Awards Banquet, during World Env't. Week including:
    - Miss GRW Mother Earth Crowned
    - Best kept (Env't. Friendly) Community
    - Best environment clubs
    - Other incentives/awards
13. Undertake feasibility study for environmental friendly income generating projects. Eg. Bee Keeping and Composting Project. The spin-off would be; as follows:
  - Providing needed income, converting trash into cash
  - Reducing the use of expensive and environment polluting fertilizers
  - Promoting organic farming
  - Minimizing the problems of solid waste management.
14. Employ full time social worker/ community organizer to:
  - Reactivate old CBO's
  - Set up new ones
  - Co-ordinate activities in GRW
  - Public Relations/Project Manager

## 5.0 References

ENACT2001 Handbook on Environmental Stewardship (Draft) ENACT Programme.

ENACT2001 Documentation a framework for local sustainable development planning in Jamaica.

NRCA1999Towards a watershed policy for Jamaica. NRCA, Green Paper no.2199

R2RW 2001, Rapid Rural Appraisal of the Great River, Watershed. ARD. INC. Burlington.

R2RW 2001, Policy and Legislation for Watershed Management, in Jamaica. USAID/NEPA

R2RW 2001, Governance and Watershed Management, ARD. INC. Burlington.

R2RW 2002, Enhancing awareness for sustainable Watershed, Management. P-search KAP Survey.

SDC 2000, P.D.C; a mechanism for co-coordinating the planning, implementation and monitoring process of the parish level.

Shewgt 1998, Environmental management of watershed and development of institutional capability.

Shewgt 1999, Development of a National Watershed classification and monitoring programme; Jamaica- a technical report, by computer Assisted Development INC.

The Rural Agricultural Development Act 1990

The Watershed Protection Act 1963

## Scope of Work

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<b>Title</b>	A Review of Organizational, Human, and other Resources supporting Compliance and Enforcement in the Great River Watershed (GRW)
<b>Activity</b>	Review State, Private Sector, Civil Society, and Community Organizations, involved in Compliance and Enforcement in the GRW, develop a database, and implement a Workshop to present and prioritize these findings.
<b>Consultant</b>	Mr. Leon Hopkins, former Western Regional Director of Public Health
<b>Supervisor</b>	Technical: Trevor O Spence, Governance & Natural Resources Specialist Contract: Mark Nolan, Chief of Party
<b>Duration</b>	22 Days between September 23rd, 2002, and November 4th, 2002

### Background

The Ridge to Reef Watershed Project (R2RW) is a five year (with an optional sixth year) activity contributing to the achievement of USAID - Jamaica's Strategic Objective #2 (SO2) - Improved quality of key natural resources in areas that are both environmentally and economically significant. R2RW is focused on enhancing sustainable environmental practices, improving compliance and enforcement, and strengthening the capacities of organizations involved in watershed management. R2RW comprises three Components contributing to the achievement of the Intermediate Results under 502. Component 2 sets out to address incentives for and obstacles to enforcement of targeted environmental legislation identified and solutions supported. This Component is built on the assumption that improving enforcement must begin with understanding the reasons why individuals and organizations do not currently obey prevailing policies and regulations.

There is general agreement that, although there are multiple organizations involved in compliance and enforcement issues, limited enforcement of environmental laws and regulations are taking place and where this is being done, it is not effective. A prerequisite to enforcement is an awareness of what laws exist, and which ones are being violated. This would also assist in determining if the present policies are adequate. With the review process underway, attention must also be given to the capacity of enforcement mechanisms and personnel. An inventory is needed of the currently available resources for compliance and enforcement activities, along with contact information, roles and responsibilities, resources available for sharing among Agencies, and capacity to carry out enforcement activities.

There are also indications that communities are experiencing a breakdown of core values, and that compliance with these laws are limited, and very little enforcement of violations are taking place at the community level. There is also a need to deal with the issue of "community informants" over and against the stigma attached to "informers". Community input into sanctions against environmental breaches must be included. Special studies of community stewardship models could be applied to Jamaica. For example, how to link with "Burial Society" networks and with "Garden Club" networks - to determine their role as some of the oldest community based networks in the country. In addition, the role of churches and their role in community networks for

communication could be explored.

The Great River Compliance and Enforcement Task Force (GRWC&ETF) was established in October 2001. This Task Force is focusing at a watershed level. As a part of its activities, the GRWC&ETF wants to develop clear and accurate information on the status of compliance and enforcement in the watershed.

### **Purpose**

The purpose of this Scope of Work (SOW) is to contract short term technical assistance to assist the GRWC&ETF, the Great River Watershed Management Committee, NEPA, and the R2RW Project Technical Team to review State, Private Sector, Civil Society, and Community Organizations involved in Compliance and Enforcement in the GRW, develop a database, and implement a Workshop to present and prioritize these findings.

### **Activities**

The activities to be undertaken during this consultancy include but are not necessarily limited to the following:

1. Meet with relevant R2RW, GRWMC and GRWC&ETF Members, and NEPA representatives to review the current reality with respect to opportunities and constraints to greater compliance and enforcement in the Great River Watershed area.
2. Develop questionnaire for use in interviewing State Agencies, Private Sector, NGOs, and CBOs involved in Compliance and Enforcement activities in the GRW. This should include the human and financial resources, contact information, roles and responsibilities, resources available for sharing among Agencies, and capacity to carry out enforcement activities. Present this information in the form of an organization assessment that deals with the specific attributes of each organization analyzed.
3. Undertake interviews, conduct research, and review existing documents of the GRWC&ETF, enforcement agencies and court records, to determine the major types of environmental violations coming before the Courts, under what Laws and Regulations violators are being charged, who is bringing forward these charges, and the major environmental concerns of communities in the GRW.
4. Based upon the above, prepare:
  - a. An inventory of equipment
  - b. A database of contact information for all personnel involved in C&E activities in the GRW
  - c. A matrix of environmental violations in the Great River area for the past three years.
5. Investigate the potential of Burial Societies, Garden Clubs, Churches, and other similar groups supporting compliance and enforcement of environmental sanctions at the community level.
6. Review information prepared on the community stewardship program, and make recommendations on how community residents in the Great River Watershed can best support compliance and enforcement of environmental laws.
7. Prepare and make presentation of findings from 1-6 above at a Workshop with the GRC&ETF;

8. Prepare a Final Report that includes the output of 1-7 above.

**Output**

The following outputs are expected of the consultancy

1. Work plan for the consultancy based upon initial interviews.
2. A complete draft report containing:
  - a. Organizational Assessments of existing and potential organizations involve in C&E activities in GRW.
  - b. An inventory of equipment
  - c. A database of contact information for all personnel involved in C&E activities in the GRW
  - d. A matrix of environmental violations in the Great River area for the past three years.
  - e. The potential of other groups to support compliance and enforcement
  - f. Recommendations on community stewardship
3. Presentation at a Workshop of the GRWMC C&ETF.
4. Final Report that documents the analysis of activities above, and incorporates feedback from the workshop.

**Personnel**

This consultancy will be carried out by Mr. Leon Hopkins, formerly Regional Chief Public Health Inspector of Ministry of Health, Western Division. He has a good working relationship with the stakeholders in the Great River Watershed. He is also a founding member the Hanover Environmental Trust, and has been involved with the GRWMC C&ETF since its inception.

**Level of Effort and Illustrative Proposed Schedule**

It is estimated that 22 consultant days are required to complete this assignment, inclusive of travel time.

This assignment is to begin on or about September 23, 2002, and should be completed by November 4th, 2002.

Activity	Level of Effort	Proposed Schedule by
1. Meet relevant local representatives and prepare work plan	3	September 27 <sup>th</sup>
2. Organizational Assessment	5	October 4 <sup>th</sup>
3. Prepare equipment resource inventory, Database of contact persons, and matrix of environmental violations	4	October 11 <sup>th</sup>
4. Review potential of other Groups	2	October 15 <sup>th</sup>

Activity	Level of Effort	Proposed Schedule by
5. Recommendations on Community Stewardship program	3	October 18 <sup>th</sup>
6. Prepare and submit draft report	2	October 22 <sup>nd</sup>
7. Participate in Workshop	1	October 29 <sup>th</sup>
8. Prepare and submit final report	2	November 4 <sup>th</sup>
<b>Total Number of Days</b>	<b>22</b>	

## Persons Contacted

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1.	Mark Nolan	R2RW
2.	Trevor Spence	R2RW
3.	Don Streete	R2RW
4.	Horace Underhill	RADA
5.	Sadie Dixon	RADA
6.	Durval Grapine	Forestry Dept.
7.	Jill Williams	Marine Park
8.	Stacy Ann Gabbidon	Do.
9.	Courtney Cole	SDC
10.	John White	SDC
11.	Sophia Kerr-Reid	St. James PC
12.	Trevor Jangalie	Westmoreland PC
13.	Desmond Dorman	Hanover PC
14.	Barrington Taylor	NEPA
15.	Andrea Steele	Do.
16.	Lee Taylor	Pesticide Control
17.	Donna Yitsack	Sandals
18.	Cleveland Wright	Round Hill
19.	Linton Latty	Asst. Com. Police Area 1
20.	Ms. Heather Mcfarlane	SSU
21.	Horace Burnett	Min. of Housing
22.	Dr. S Campbell-Forrester	WRHA
23.	Owen Gilpin	Montpelier Research Stn.
24.	Noel Scott	Retrieve A.A. School

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## Questionnaire

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### GRW Compliance and Enforcement Co-operation

1. Name of Organization: \_\_\_\_\_
2. Contact Persons: \_\_\_\_\_ Status: \_\_\_\_\_  
\_\_\_\_\_
3. Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
4. Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email Address: \_\_\_\_\_
5. Type of Organization: Govt. **f** Private Sector **f** NGO **f** CBO **f** Other **f**  
If other please state: \_\_\_\_\_
6. Mission/Goal/Purpose: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
7. Organization and Management  

Staff	(M)	(F)	Total
8. Programmes			
Environmental <b>f</b>	Sanitation <b>f</b>	Compliance of Enforcement <b>f</b>	Social Dev. <b>f</b>
Economical Dev. <b>f</b>	Infrastructural Dev. <b>f</b>	Farming <b>f</b>	Youth <b>f</b> Other <b>f</b>
(NB) If other state _____			
9. Special Group Focus  

Women <b>f</b>	Men <b>f</b>	Youth <b>f</b>	Professionals <b>f</b>	Farmers <b>f</b>	Disabled <b>f</b>
Other <b>f</b> (NB) If other state _____					
10. Operation Functions  

National <b>f</b>	Regional <b>f</b>	Parish <b>f</b>	District <b>f</b>	Other Operations <b>f</b>
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11. Equipment

Computers **f**    Televisions **f**    Multimedia Projector **f**    VCR **f**    Cameras **f**  
Typewriters **f**    Movie Projector **f**    Photocopier **f**    Cars **f**    Trucks **f**  
Overhead Projector **f**    CB Radio **f**    Other **f**

(NB) If other please state \_\_\_\_\_

12. Are you/org. involved in compliance enforcement activities?

Yes **f**    No **f**

13. If no are you/org. willing to support C/E in the GRW

Yes **f**                      No **f**

14. What would be your likely role in the above? \_\_\_\_\_

15. State what other resources you/org would need to effectively carry our C/E activities

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

***Thanks for your cooperation***

## Focus Group Questions

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1. Name of community.
2. What types of group organizations exist in your community?
3. Are you an active member of any group named? If not, why?
4. Are any of these groups/organizations involved in compliance and enforcement issues/activities?
5. Are you/others aware of the existing environmental regulations?
6. Are you comfortable with environmental/sanitary status of your community?
7. Are you not concerned about the high level of violations/breaches in GRW?
8. Would you be willing to report any person (s) you know committing breaches in your area?
9. How do others view (feel about) persons who inform the authorities about wrong doers?
10. Are you willing to support drive for improved management of GRW?
11. In what way would you be able to help?



