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**WINNER**  
WATERSHED INITIATIVE FOR NATIONAL  
NATURAL ENVIRONMENT RESOURCES

## ENVIRONMENTAL MITIGATION REPORT



**June 2009 - March 2011**

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ENVIRONMENTAL MITIGATION REPORT  
(EMR)

**JUNE 2009 – MARCH 2011**

**Contract No. EPP-I-04-04-000200-00**

The author's views expressed in this publication do not necessarily reflect the views of the United States Agency for International Development or the United States Government.

## ACRONYMS

APFK	Association des Producteurs de Fleurs de Kenscoff
BIA	Boutique d’Intrants Agricoles
BME	Bureau des Mines et de l’Energie
CCCA	Conference on the Caribbean and Central America
CIAT	Comité Interministériel pour l’Aménagement du Territoire
CNE	Centre National des Equipements
CRDD	Centre Régional de Développement Durable
DEED	Développement Economique pour un Environnement Durable
GIS	Geographical Information System
KRA	Key result area
LPG	Light Propane Gas
MFT	Manufacture Fabrication Transformation
MOU	Memorandum of Understanding
ONADEV	Organisation Nationale de Développement
REA	Responsable d’Eancadrement Agricole
RFP	Request for Proposals
SBRI	Small Business Recovery Initiative
SHAISA	Société Haïtienne Agro-Industrielle, S.A.
SONAPA	Société Nationale de Production Agricole
STTA	Short-Term Technical Assistance
SRI	Système de Riziculture Intensive
USAID	United States Agency for International Development
WIF	Watershed Investment Fund

**WINNER Watershed Initiative for National Natural Environmental Resources****Contents**

Introduction .....	1
Categorical Exclusion .....	4
Negative Determination .....	7
Negative Determination with Conditions .....	7
Concluding Remarks.....	37

**List of Tables**

TABLE 1.A: CATEGORICAL EXCLUSION SPECIAL MEASURES .....	5
TABLE 2: NEGATIVE DETERMINATION TYPICAL ACTIVITIES.....	7
TABLE 3: NEGATIVE DETERMINATION WITH CONDITIONS .....	8

## **Environmental Mitigation Report (EMR)**

### **Introduction**

The purpose of the WINNER project is to implement broad scale investments in sustainable natural resource management at the scale and density needed to produce future positive landscape level reductions in environmental, infrastructural, and economic vulnerability in the Cul de Sac and the Saint Marc (Cabaret – Arcahaie – Montrouis) corridors with selected activities in Gonaives and the Mirebalais – Saut-d’Eau regions. The long-term vision of the WINNER program is that people living within the targeted corridors will have improved livelihoods, reduced threat from flooding, and will have invested in sustainable agriculture development in the selected corridors. Their experience will serve as a model approach to replicate both within and beyond the targeted corridors.

WINNER has four Key Results:

1. Livelihoods of people living in the watersheds improved through increased agricultural productivity and alternative income generation sources;
2. Critical and productive infrastructure rebuilt and improved with a focus on productive plains;
3. Corridor governance strengthened;
4. Public-Private Partnerships established.

A fifth Key Result initiated right after the January 2010 earthquake, “Earthquake recovery enhanced through job creation in rural areas and assistance to small business”, will be deactivated on December 31, 2010.

In accordance with USAID’s environmental procedures (22 CFR 216) requiring evaluation and action to ensure that adverse environmental impacts are prevented or mitigated, the Initial Environmental Examination (IEE) for the Watershed Initiative for National Natural Environmental Resources (WINNER) and Developement Economique pour L’Environment Durable (DEED) projects recommended the following threshold decisions:

- A. Categorical Exclusion:
  - Technical Assistance – Categorical Exclusion, pursuant to 22 CFR §216.2(c)(2)(i)
  - Training – Categorical Exclusion, pursuant to 22 CFR §216.2(c)(2)(i) and 22 CFR §216.2(c)(2)(iii)
- C. Procurement (other than pesticides or chemical fertilizers) – Negative Determination
- D. Procurement (pesticides) – Preparation of a Pesticide Evaluation Report and Safer Use Action Plan (PERSUAP) required, 22 CFR §216.2(e)
- E. Negative Determination with Conditions:
  - Procurement (chemical fertilizers) – Implementation of an approved environmental screening system required
  - Low or Moderate Physical Infrastructure Rehabilitation and Construction  
Implementation of an approved environmental screening system required

G. Positive Determination, 22 CFR §216.3(a)(2)(iii) – Environmental Assessment (EA) required:

- High Risk Physical Infrastructure Rehabilitation and Construction

Based on the IEE recommendations, a Programmatic Environmental Assessment (PEA) was developed for the WINNER Project. Considering the effectiveness and thoroughness of the PEA, USAID/Haiti and Chemonics International have agreed that it will be used for the environmental monitoring of all WINNER Project activities, including those predating its development.<sup>1</sup> Nevertheless due to their respective level of environmental risks, the River Grise Banks Containment and Protection Project and the River La Quinte Banks Containment Project had specific EMPR and EA respectively. Thus, these two projects follow the environmental recommendations from their respective approved EMPR and EA.

This report presents the environmental mitigation measures implemented for activities from the project beginning in June 2009 to March 2011, and assess them in light of the mitigation measures and recommendations identified in the PEA. For each cluster of activities undertaken during the reporting period, the tables presents the recommended mitigation measures, the implemented mitigations, the project status, the mitigation effectiveness and the recommended adjustments.

The report is organized by recommended threshold decisions, and the activities are grouped by the project components and clusters.

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<sup>1</sup> Per email dated Tuesday, January 11, 2011 from the Regional Environmental Advisor, and tilted WINNER project environmental direction, “*The following strategy shall be implemented by the WINNER staff in order to meet Reg 216 environmental compliance:*”

- *Each past and existing activity shall be monitored and compared to the final draft PEA direction and mitigations (while the PEA is going through final administrative approvals). The monitoring will also document the effectiveness of implementing the mitigation measures found in the final draft PEA and EMPR if one exists. If the activity is not implementing all PEA and EMPR mitigations, the activity staff shall be notified to implement them. The existing WINNER river work that have a specific EA and EMPRs should also be monitored but will not need to be compared to the PEA as they already have specific approved EAs and EMPRs. All monitoring will be documented and compiled in the specific activity folder; even if mitigations are being followed, a memo to the folder should be prepared stating the date and findings of the monitoring.*
- *Meanwhile that the PEA is being finalized, all future WINNER activities shall follow the PEA’s recommendations and mitigations. If it is found that the activity was not covered within the PEA, and/or that site specific ground conditions are unique and require additional mitigations, an Environmental Mitigation Plan and Report (EMPR) shall be prepared to identify the potential impacts and necessary mitigation measures. Given the large quantity of activities that the WINNER project is covering, an EMPR will not be necessary for each activity if it is already clearly and completely covered within the PEA mitigations.”*

Livelihoods of people living in the watershed improved through increased agricultural productivity and alternate income generation	Critical infrastructure rebuilt and improved and threat of flooding reduced	Watershed governance strengthened	Earthquake Recovery Enhanced
1.1: Sustainable hillside agricultural production increased	2.1: Structures that strategically stabilize hillsides & control floods in plains established	3.1: Watershed governance structures established	5.1: Emergency food provided
1.2: Alternative forms of non-farm livelihoods for hillside farmers identified	2.2: Irrigation systems restored	3.2: Costs of public works increasingly covered by the watershed population	5.2: Temporary shelter provided
1.3: Productivity through better land use management increased	2.3: Potable groundwater levels in watersheds increased	3.3: Representative governing bodies strengthened	5.3: Small business assisted and day labor employed in ways that benefit rural economy
1.4: Agreements between producer groups, MSMEs, and entrepreneurs signed	2.4: Critical transportation infrastructure rebuilt and repaired	3.4: Policy constraints identified, assessed, and recommendations made in a participatory manner	5.4: Quick boost in agricultural production supported
1.5: Income and productivity in lowland agricultural systems increased	2.5: Flood warning systems installed and maintained	3.5: Participatory watershed management plan created	
1.6: Local organizations strengthened		3.6: Sustainably financed, community based NRM of biologically significant sites implemented	
1.7: Competitiveness of value chains strengthened		3.7: Participatory disaster management plan for watershed developed	
1.8: Watershed biodiversity restored		3.8: Donor coordination in watersheds strengthened	
<b>Public-Private Partnerships Established</b>			
4.1: Public-Private Partnerships for the majority of watershed interventions leveraged			

## Categorical Exclusion

Activities with usually no significant impacts on the environment are grouped in this category. As per the 22 CFR §216.2(c)(2), they include technical assistance, training, studies and assessments, conducting inventories, developing plans and maps, and raising awareness in the communities.

No specific mitigation measure is usually needed for them. However, the PEA pinpointed 2 of them in the case of the WINNER project:

1. Currently, many of WINNER's training and meeting activities are being conducted in various ad hoc sites while the CRDDs are being built. An environmental impact is that logistics for meals have the potential to produce significant amounts of plastic waste material. The mitigation measure is:  
The TORs for the training/logistics contractor for training at CRDDs shall require that washable, reusable dishes be used to serve meals; non-reusable plates, bowls, and silverware shall be highly discouraged. Logisticians, in each region, are responsible for implementing, monitoring, and reporting on this mitigation measure.
2. TA/training of master farmers and extension agents shall incorporate conservation information, such as retaining natural vegetation, especially tree cover, planting trees, including for agro-forestry, and other conservation farming measures.

These measures not being activity-specific, their implementation will be assessed generally for the category. After that, activities conducted by USAID/WINNER, related to this category, will be listed, just for concordance with other reports.

**Table 1.a: CATEGORICAL EXCLUSION SPECIAL MEASURES**

Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
<b>TRAININGS FOR ALL CLUSTERS</b>						
Training of master armers and extension agents	All regions	Ongoing	Project Document and PEA	TA/training of master farmers and extension agents shall incorporate conservation information, such as retaining natural vegetation, especially tree cover, planting trees, including for agro-forestry, and other conservation farming measures.	Sustainable Management of the Environment is one of the basic themes in the training of the master farmers Each regional team integrates a specialist in Natural Resources Management	An assessment of the impacts of the training provided to the master farmers on their practices is planned. It will provide important information to help improve the implementation of this measure.
<b>PROJECT WIDE</b>						
Trainings and Coordination with other institutions	All regions	Ongoing	PEA	The TORs for the training/logistics contractor for training at CRDDs shall require that washable, reusable dishes be used to serve meals; non-reusable plates, bowls, and silverware shall be highly discouraged. Logisticians, in each region, are responsible for implementing, monitoring, and reporting on this mitigation measure.	The food providers for trainings done at office of WINNER in the Bas Boen interim office facilities now conforms to this directive. However and unfortunately, it's still not the case for trainings done elsewhere, in ad hoc sites like church or school buildings, farmer association offices. After each seminar, there are still piles of plastic dishes and bottles to be burnt by the room, a very bad example for the trainees beside the impact on the environment.	Professional catering services being rather scarce in the countryside, USAID WINNER might have to consider providing reusable dishes for the trainings as well as portable equipment and water for washing them. Some delegates of the trainees would have to care of doing the dishes after each meal.  As for the individual bottles of soda distributed (for fear of dissemination of cholera), either some local collection initiative for PET packagings must be fomented and assisted (that would help the whole community but not necessarily the best solution in term of health for the trainees) or another beverage option must be selected.

<b>Table 1.b: CATEGORICAL EXCLUSION ACTIVITY LIST</b>				
<b>Component 1: Livelihoods</b>	<b>Component 2: Infrastructure</b>	<b>Component 3: Governance</b>	<b>Component 4: PPPP</b>	<b>Component 5: Earthquake recovery</b>
<b>TRAININGS</b>				
<ul style="list-style-type: none"> <li>• Training in agriculture techniques, farm management, natural birth control techniques and sustainable management of the environment for master farmers (paysans vulgarisateurs)</li> <li>• Selection of 8 Haitians for scholarship in a 2-year master's program at the University of Florida</li> <li>• Training for managers of small tree nurseries</li> <li>• Training for managers of target grassroots agricultural input supply stores</li> <li>• Training for grassroots organizations in technique of intensive rice production system</li> <li>• Set up of agricultural extension network through SMS</li> </ul>		<ul style="list-style-type: none"> <li>• Assistance to Kenscoff municipal team in designing a Disaster Contingency plan</li> <li>• Assistance to Croix-de-Bouquets municipal team in designing a Disaster Contingency plan</li> <li>• Assistance in revision of the Disaster Contingency Plan for the municipality of Gonaives</li> <li>• Training in GIS mapping for technicians in the municipality of Kenscoff</li> <li>• FONDTAH: Sponsorship of 2 days of public awareness event by Lake Azuei</li> </ul>	<ul style="list-style-type: none"> <li>• Sponsorship of Forum on mango production</li> </ul>	
<b>STUDIES AND ASSESSMENTS</b>				
<ul style="list-style-type: none"> <li>• Agro Consult Haiti SA: Baseline assessment of potential beneficiary farmer associations managerial capacities in Cul-de-Sac and Gonaives work areas</li> <li>• Assessment of alternative sources of energy for cooking</li> <li>• FIRMATECH: Study to identify potential non-farm activities that could be developed in the Cul-de-Sac watershed</li> <li>• Assessment of reforestation experiences in Haïti</li> <li>• Controlled trials of various varieties of jatropha curcas</li> <li>• Collection and analysis of 1200 soil samples</li> </ul>	<ul style="list-style-type: none"> <li>• LGL: Study for reprofiling and strengthening the banks of Riviere Grise</li> <li>• Study for reprofiling Riviere La Quinte</li> <li>• Feasibility study for the rehabilitation of the thermal plant and pumping stations in the Bas Boen area.</li> <li>• Topographic study of La Serre Canal</li> </ul>	<ul style="list-style-type: none"> <li>• Establishment of Memorandum of Understanding with MARNDR, MdE</li> <li>• Establishment of MOU with the municipalities of Kenscoff and Croix-des-Bouquets</li> <li>• Technical assistance to Ministry of Environment in drafting a regulation establishing the Designated National Authority for the Clean Development Mechanism of the Kyoto Protocol</li> <li>• Study of La Visite national park and Winner management strategies</li> <li>• Sun Mountain: Preparation of PERSUAP</li> </ul>	<ul style="list-style-type: none"> <li>• Assessments of beneficiary SME managerial capacities</li> </ul>	<ul style="list-style-type: none"> <li>• SMG: Assessment of impacts of earthquake on business sector</li> </ul>

## Negative Determination

According to the IEE, under this category are grouped all procurements other than biological inputs for agriculture, forestry and animal raising (seeds, pesticides and drugs), fertilizers and infrastructures. They are deemed not to require environmental mitigation measures provided they are maintained correctly.

The following table lists some typical procurements provided by the WINNER project.

<b>Table 2: NEGATIVE DETERMINATION TYPICAL ACTIVITIES</b>		
<b>Component 3: Governance</b>	<b>Component 4: PPPP</b>	<b>Component 5: Earthquake recovery</b>
<ul style="list-style-type: none"> <li>• Computer equipment and GIS software provided to ONEV (MdE)</li> <li>• Computer equipment and GIS software provided to ANAP (MdE)</li> <li>• Computer equipment and GIS software provided to CIAT</li> <li>• Computer equipment and GIS software provided to municipalities of Croix-des-Bouquets,</li> <li>• Computer equipment and GIS software provided to municipalities of Kenscoff,</li> <li>• Computer equipment and GIS software provided to municipalities of Mirebalais and Saut d'Eau</li> <li>• Computer equipment and GIS software provided to municipalities of Cabaret</li> <li>• Installation of early warning system for the La Quinte watershed</li> </ul>	<ul style="list-style-type: none"> <li>• Pilot subsidization of LPG cook stoves for 65 petty sellers of cooked foods through urban centers of Petion-Ville, Port-au-Prince and Croix des Bouquets and assessment of performances</li> </ul>	<ul style="list-style-type: none"> <li>• Replacement of a damaged test bench for calibrating diesel injection pumps and injectors for Precision Injection Shop (PIS) in metropolitan area</li> <li>• Replacement of electric generator for an ice processing enterprise (Magic Ice) in metropolitan area</li> <li>• Replacement of a damaged LPG oven and a damaged generator for Boulangerie le Millenium SA in metropolitan area</li> <li>• Replacement of a damaged LPG oven and a damaged generator Boulangerie du Nil within the SBRI in metropolitan area</li> </ul>

## Negative Determination with Conditions

In this category, are grouped all activities for which an EMPR was required before the availability of the PEA. In the following table, they are considered, sorted by cluster of activities.

**Table 3: NEGATIVE DETERMINATION WITH CONDITIONS**

Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
<b>Cluster 1.1 Increase in sustainable hillside agricultural production</b>						
Support for 2010 spring agricultural campaign	Kenscoff Mirebalais	Completed	PEA-based EMP available	<ol style="list-style-type: none"> <li>TA/training of master farmers and extension agents shall incorporate conservation information, such as retaining natural vegetation, especially tree cover, planting trees, including for agro-forestry, and other conservation farming measures.</li> <li>All Technical Assistance/training related to Pest Management must comply with the PERSUAP content.</li> <li>TA/training shall incorporate information from the Fertilizer Factsheet</li> <li>All grants (including to agri-supply stores) must comply with the PERSUAP and shall include a condition to post in the BIAs, a poster listing the pesticides authorized in the PERSUAP.</li> <li>Grants (including to agri-supply stores) shall include a condition to provide fertilizer best practices to clients, as described in the Fertilizer Fact Sheet</li> <li>Monitor to ensure that production systems that WINNER is promoting are actually reducing impacts on biologically significant sites : (i) pond of Trou Caiman, (ii) River and fall of Saut d'Eau, (iii) National park La Visite.</li> </ol>	<p><b>Measures recommended in the PEA that were fully implemented:</b> 1, 2, 3</p> <p><b>Measures recommended in the PEA that were partially or inadequately implemented:</b> 4, 5</p> <p><b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> None</p> <p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> WINNER promote the production and use of organic fertilizers.</p>	<ul style="list-style-type: none"> <li># 4: The poster listing pesticides agreed in the PERSUAP (as recommended in the PEA) is still to be produced.</li> <li># 5: Soil analysis were not yet done in the regions as a reference on which to base advices on how to best use synthetic fertilizers</li> <li># 6: This measure was not yet identified at that time.</li> </ul>
Establishment of hillside CRDDs	Kenscoff	Ongoing	Part of activity covered by EMPRs	<p><b>During Planning &amp; Site Selection Phase,</b></p> <ol style="list-style-type: none"> <li>Environmental Due Diligence shall be conducted to insure that any important habitat or ecosystems as well as any cultural or historical assets that may be affected by the project (project boundaries include all ancillary features) will be protected.</li> <li>A “hand-over plan” is developed in consultation with relevant community members and government authorities.</li> <li>Establish and implement a transparent and fair compensation plan in order to provide fair compensation for any permanent or temporary loss incurred (e.g. buildings, infrastructure, land, crops, gardens, plantations). Ensure that the plan allows affected people to maintain their current housing condition or better.</li> <li>All relevant GoH and local legislation is complied with including, as necessary, land acquisition and compensation procedures, and water and sanitation system permits, as outlined in relevant GoH legislation</li> <li>Tender documents for construction phase shall include information on water and sanitation systems to be provided and the impacts of these needs on surrounding community must be assessed.</li> <li>If need be, incorporate relevant mitigation measures from Road Rehabilitation Mitigation Plan (Cluster 2.4) into engineering</li> </ol>	<p><b>Measures recommended in the PEA that were fully implemented:</b> 1 through 8, 15, 16</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> 9 through 12, 14, 18, 23, 24, 25</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 13 and 20 to 22</p> <p><b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> 17, 19</p> <p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b></p>	Waste management system (particularly for packaging) should be improved.

**Table 3: NEGATIVE DETERMINATION WITH CONDITIONS**

Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
				<p>contract.</p> <p>7. Tender documents for construction phase should include a requirement for a re-use/recycle and waste segregation plan.</p> <p>8. Construction plans must be approved by a certified engineer, and construction works must be performed by a qualified and experienced contractor.</p> <p>9. Starting during the planning phase, WINNER shall prepare a maintenance plan (including landscaping and waste management), and shall provide training necessary to ensure sustainable operation of the CRDD.</p> <p><b>During Construction/Renovation phase of buildings, experimental fields and ancillary features:</b></p> <p>10. WINNER shall ensure that all material is sourced in an environmentally sound and sustainable manner.</p> <p>11. Educate workers about procedures to be implemented in case protected species or artifacts are found on-site.</p> <p>12. Engineering contract shall include a stop-work clause that requires project work to stop if these resources are found on site or found to be affected by the project. Work shall resume once collaboration with WINNER senior management and USAID is complete.</p> <p>13. Use erosion control measures during construction such as geotextiles, jersey barriers, haybales, siltcreens (or other appropriate and obtainable material) and do not remove until construction is complete and vegetation is re-established.</p> <p>14. A gender ratio for project staff of as close to 1:1 shall be strived for.</p> <p>15. Local sources of labor should be used to the greatest extent possible.</p> <p><u>To ensure the safety of the public:</u></p> <p>16. Restrict access of the public to hazard areas.</p> <p>17. Hold meetings to educate and inform residents of the work to be carried out.</p> <p>18. Reduce vehicle speed in work zone.</p> <p>19. Implement a communication plan for regular public awareness of project activities.</p> <p><u>To ensure the safety of workers:</u></p> <p>20. Provide appropriate safety equipment (including for noise protection, as needed) and have a first aid kit available onsite during the works..</p> <p>21. Provide adequate training of personnel in safety procedures.</p> <p>22. Post proper signage.</p>		

Table 3: NEGATIVE DETERMINATION WITH CONDITIONS

Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
				<p><b>During decommissioning phase:</b></p> <p>23. Once construction work is complete, restore hydrology and grade to pre-construction condition (or improved drainage) on work sites and adjacent affected areas.</p> <p>24. Clean sites of any debris and garbage linked to construction phase</p> <p>25. Re-vegetate areas disturbed with naturally occurring vegetation, if possible with vegetation retained from on-site; and/or with erosion control vegetation (vetiver, bamboo, elephant grass).</p>		
Establishment of hillside CRDDs	La Branle	Ongoing	Part of activity covered by EMPRs	<p><b>During Planning &amp; Site Selection Phase,</b></p> <p>1. Environmental Due Diligence shall be conducted to insure that any important habitat or ecosystems as well as any cultural or historical assets that may be affected by the project (project boundaries include all ancillary features) will be protected.</p> <p>2. A “hand-over plan” is developed in consultation with relevant community members and government authorities.</p> <p>3. Establish and implement a transparent and fair compensation plan in order to provide fair compensation for any permanent or temporary loss incurred (e.g. buildings, infrastructure, land, crops, gardens, plantations). Ensure that the plan allows affected people to maintain their current housing condition or better.</p> <p>4. All relevant GoH and local legislation is complied with including, as necessary, land acquisition and compensation procedures, and water and sanitation system permits, as outlined in relevant GoH legislation</p> <p>5. Tender documents for construction phase shall include information on water and sanitation systems to be provided and the impacts of these needs on surrounding community must be assessed.</p> <p>6. If need be, incorporate relevant mitigation measures from Road Rehabilitation Mitigation Plan (Cluster 2.4) into engineering contract.</p> <p>7. Tender documents for construction phase should include a requirement for a re-use/recycle and waste segregation plan.</p> <p>8. Construction plans must be approved by a certified engineer, and construction works must be performed by a qualified and experienced contractor.</p> <p>9. Starting during the planning phase, WINNER shall prepare a maintenance plan (including landscaping and waste management) and shall provide training necessary to ensure sustainable operation of the CRDD.</p>	<p><b>Measures recommended in the PEA that were fully implemented:</b> 1 through 8, 15, 16</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> 9 through 12, 14, 18, 23, 24, 25</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 13 and 20 to 22</p> <p><b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> 17, 19</p> <p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> NONE</p>	

**Table 3: NEGATIVE DETERMINATION WITH CONDITIONS**

Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
				<p><b>During Construction/Renovation phase of buildings, experimental fields and ancillary features:</b></p> <p>10. WINNER shall ensure that all material is sourced in an environmentally sound and sustainable manner.</p> <p>11. Educate workers about procedures to be implemented in case protected species or artifacts are found on-site.</p> <p>12. Engineering contract shall include a stop-work clause that requires project work to stop if these resources are found on site or found to be affected by the project. Work shall resume once collaboration with WINNER senior management and USAID is complete.</p> <p>13. Use erosion control measures during construction such as geotextiles, jersey barriers, haybales, siltscreens (or other appropriate and obtainable material) and do not remove until construction is complete and vegetation is re-established.</p> <p>14. A gender ratio for project staff of as close to 1:1 shall be strived for.</p> <p>15. Local sources of labor should be used to the greatest extent possible.</p> <p><u>To ensure the safety of the public:</u></p> <p>16. Restrict access of the public to hazard areas.</p> <p>17. Hold meetings to educate and inform residents of the work to be carried out.</p> <p>18. Reduce vehicle speed in work zone.</p> <p>19. Implement a communication plan for regular public awareness of project activities.</p> <p><u>To ensure the safety of workers:</u></p> <p>20. Provide appropriate safety equipment (including for noise protection, as needed) and have a first aid kit available onsite during the works.</p> <p>21. Provide adequate training of personnel in safety procedures.</p> <p>22. Post proper signage.</p> <p><b>During decommissioning phase:</b></p> <p>23. Once construction work is complete, restore hydrology and grade to pre-construction condition (or improved drainage) on work sites and adjacent affected areas.</p> <p>24. Clean sites of any debris and garbage linked to construction phase</p> <p>25. Re-vegetate areas disturbed with naturally occurring vegetation, if possible with vegetation retained from on-site; and/or with erosion control vegetation (vetiver, bamboo, elephant grass).</p>		

Table 3: NEGATIVE DETERMINATION WITH CONDITIONS

Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
<b>Cluster 1.3 Productivity through better land use management increased</b>						
Agro-forestry campaign	Cabaret / Arcahaie	Completed	Work plan and project document	<ol style="list-style-type: none"> <li>TA/training for producers shall incorporate conservation farming technologies, including soil and water conservation, flood control measures, tree planting, etc.</li> <li>TA/training shall incorporate best practices from the attached Fertilizer Factsheet (Annex F).</li> <li>All pesticides procurement, handling and use, as well as recommendation or training for procurement and use shall comply with the USAID approved PERSUAP.</li> <li>Care must be taken not to promote known invasive species of grass or trees.</li> </ol>	<b>Measures recommended in the PEA that were fully implemented:</b> 1 and 4 <b>Measures recommended in the PEA that are partially or not yet implemented:</b> 2 and 3 <b>Measures recommended in the PEA that were inadequately implemented:</b> ? <b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> None <b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> None	# 2: Soil analysis were not yet available at that time
Agro-forestry campaign	Cul-de-Sac plain	Completed				
Agro-forestry campaign	Cul-de-Sac Kenscoff	Completed				
Agro-forestry campaign	Gonaives	Completed				
Agro-forestry campaign	Matheux	Completed	Draft EMPR			
Set up of green house with drip irrigation at Kenscoff CRDD	Kenscoff	Completed	PEA-based EMP	<ol style="list-style-type: none"> <li>Care must taken that rainwater running on the green house do not cause erosion.</li> <li>TA/training shall incorporate best practices from the attached Fertilizer Factsheet (Annex F).</li> <li>All pesticides procurement, handling and use, as well as recommendation or training for procurement and use shall comply with the USAID approved PERSUAP.</li> </ol>	<b>Measures recommended in the PEA that were fully implemented:</b> 1,2,3 <b>Measures recommended in the PEA that are partially or not yet implemented:</b> None <b>Measures recommended in the PEA that were inadequately implemented:</b> None <b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> None <b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> <ol style="list-style-type: none"> <li>Organic wastes coming out of the production in the green house are composted;</li> <li>Broken or torn plastic parts are stored in appropriate ways so as not to damage the environment.</li> </ol>	

Table 3: NEGATIVE DETERMINATION WITH CONDITIONS

Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
Grant to Fondation Seguin: reforestation in buffer zone of Parc la Visite	Kenscoff/ Cul-de-Sac	Completed	Work plan and project document	<ol style="list-style-type: none"> <li>Given proximity to a national park, a permit listing location of sites to be reforested, species to be planted and plantation density must be obtained from Ministry of Environment.</li> <li>TA/training for producers shall incorporate conservation farming technologies, including soil and water conservation, flood control measures, tree planting, etc.</li> <li>TA/training shall incorporate best practices from the attached Fertilizer Factsheet (Annex F).</li> <li>All pesticides procurement, handling and use, as well as recommendation or training for procurement and use shall comply with the USAID approved PERSUAP.</li> </ol>	<p><b>Measures recommended in the PEA that were fully implemented:</b> None</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> None</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 2</p> <p><b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> 4 (No pesticide has been used)</p> <p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> None</p>	Measures # 1 and 3: They had not notified to Fondation Seguin
Grant of solar panel kits to peasant organizations	Mirebalais, Cabaret/Arca haie	Ongoing	Draft EMPR	<p><b>During the planning phase:</b></p> <ol style="list-style-type: none"> <li>Proper ways to recycle used batteries must be devised right from the planning phase</li> </ol> <p><b>During the installation phase:</b> To prevent impacts on health of people charged with the maintenance of the equipment, of acid vapors produced by batteries and siliceous dusts freed in case of breakage of solar panels:</p> <ol style="list-style-type: none"> <li>Batteries must be placed in an aerated area;</li> <li>People in charge of maintenance of the installation must be informed of potential impacts on their health</li> </ol>	<p><b>Measures recommended in the PEA that were fully implemented:</b> NONE</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> 1, 3</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 2</p> <p><b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> NONE</p> <p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> NONE</p>	Translation of PEA in French will help in involving more technicians in environmental mitigation measures during planning of activities like this one. In this case, the environmental mitigation measures, although available, seem to have been omitted in the contract of grant.
<b>Cluster 1.4: Agreements between producer groups, MSMEs, and entrepreneurs signed</b>						
Grant to Fondation Chibas: collection of cultivars of jatropa and technical advice on test protocol	Gonaives and Cul-de-Sac Plain	Completed	Work plan and project document	<ol style="list-style-type: none"> <li>Due diligence must be conducted to insure no known parasites are introduced with the selected seeds</li> <li>Test protocol must be focus on degraded lands (i.e. site with very low carbon content, low number of species, low biodiversity, low social or livelihood value and be unlikely to recover to its natural state)</li> <li>For all things related to pesticides (TA/training or procurement for agri-supply stores), strict compliance with the USAID/Haiti mission-wide PERSUAP is required.</li> <li>If fertilizer is to be used or promoted, best practices from the Fertilizer Factsheet (Annex F) must be used.</li> </ol>	<p><b>Measures recommended in the PEA that were fully implemented:</b> 1 (Seeds were certified pest-free by Instituto Nacional de Investigación forestal y Agropecuaria de Mexico )</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> None</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 2</p> <p><b>Measures recommended in the PEA found to be non suitable in the specific</b></p>	Testing plots were established in Labranle (Gonaives area) and Bas-Boen (Cul-de-Sac area)

Table 3: NEGATIVE DETERMINATION WITH CONDITIONS

Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
					<p><b>case considered:</b> 3 and 4. ( No fertilizer nor pesticides have been used for the tests) <b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> Due consideration to resistance to aphids and arachnids, were among the criteria used for selection of the varieties of jatropha to be tested</p>	
<b>Cluster 1.5: Income and productivity in lowland agricultural systems increased</b>						
2009 winter bean campaign (including subsidies for mechanized plowing)	Cul-de-Sac plain Gonaïves	Completed	Draft agricultural EMPR based on KATA model	<ol style="list-style-type: none"> <li>1. Tilling service must not affect wooded lands nor support extension of agriculture in fragile ecosystems.</li> <li>2. TA/training of master farmers and extension agents shall incorporate conservation information, such as retaining natural vegetation, especially tree cover, planting trees, including for agro-forestry, and other conservation farming measures.</li> <li>3. All Technical Assistance/training related to Pest Management must comply with the PERSUAP content.</li> <li>4. TA/training shall incorporate information from the Fertilizer Factsheet</li> <li>5. All grants (including to agri-supply stores) must comply with the PERSUAP and shall include a condition to post in the BIAs, a poster listing the pesticides authorized in the PERSUAP.</li> <li>6. Grants (including to agri-supply stores) shall include a condition to provide fertilizer best practices to clients, as described in the Fertilizer Fact Sheet</li> <li>7. Monitor to ensure that production systems that WINNER is promoting are actually reducing impacts on biologically significant sites : (i) pond of Trou Caiman, (ii) River and fall of Saut d'Eau, (iii) National park La Visite.</li> </ol>	<p><b>Measures recommended in the PEA that were fully implemented:</b> 1, 2, 3, 5, 7</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> 4</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 6</p> <p><b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> NONE</p> <p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> WINNER promoted the production and use of organic fertilizers.</p>	
Spring agricultural campaign (including subsidies for mechanized plowing)	Cul-de-Sac plain	Completed	PEA-based EMPR	<ol style="list-style-type: none"> <li>1. Tilling service must not affect wooded lands nor support extension of agriculture in fragile ecosystems.</li> <li>2. TA/training of master farmers and extension agents shall incorporate conservation information, such as retaining natural vegetation, especially tree cover, planting trees, including for agro-forestry, and other conservation farming measures.</li> <li>3. All Technical Assistance/training related to Pest Management must comply with the PERSUAP content.</li> <li>4. TA/training shall incorporate information from the Fertilizer Factsheet</li> <li>5. All grants (including to agri-supply stores) must comply with the PERSUAP and shall include a condition to post in the BIAs, a poster listing the pesticides authorized in the PERSUAP.</li> </ol>	<p><b>Measures recommended in the PEA that were fully implemented:</b> 1, 2, 3, 5, 7</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> 4</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 6</p> <p><b>Measures recommended in the PEA found to</b></p>	

Table 3: NEGATIVE DETERMINATION WITH CONDITIONS

Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
				<ol style="list-style-type: none"> <li>Grants (including to agri-supply stores) shall include a condition to provide fertilizer best practices to clients, as described in the Fertilizer Fact Sheet</li> <li>Monitor to ensure that production systems that WINNER is promoting are actually reducing impacts on biologically significant sites : (i) pond of Trou Caiman, (ii) River and fall of Saut d'Eau, (iii) National park La Visite.</li> </ol>	<p><b>be non suitable in the specific case considered:</b> None</p> <p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> WINNER promoted the production and use of organic fertilizers.</p>	
Spring agricultural campaign (including subsidies for mechanized plowing)	Gonaïves	Completed	PEA-based EMPR	<ol style="list-style-type: none"> <li>Tilling service must not affect wooded lands nor support extension of agriculture in fragile ecosystems.</li> <li>TA/training of master farmers and extension agents shall incorporate conservation information, such as retaining natural vegetation, especially tree cover, planting trees, including for agro-forestry, and other conservation farming measures.</li> <li>All Technical Assistance/training related to Pest Management must comply with the PERSUAP content.</li> <li>TA/training shall incorporate information from the Fertilizer Factsheet</li> <li>All grants (including to agri-supply stores) must comply with the PERSUAP and shall include a condition to post in the BIAS, a poster listing the pesticides authorized in the PERSUAP.</li> <li>Grants (including to agri-supply stores) shall include a condition to provide fertilizer best practices to clients, as described in the Fertilizer Fact Sheet</li> <li>Monitor to ensure that production systems that WINNER is promoting are actually reducing impacts on biologically significant sites : (i) pond of Trou Caiman, (ii) River and fall of Saut d'Eau, (iii) National park La Visite.</li> </ol>	<p><b>Measures recommended in the PEA that were fully implemented:</b> 1, 2, 3, 5, 7</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> 4</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 6</p> <p><b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> None</p> <p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> WINNER promoted the production and use of organic fertilizers.</p>	
Spring agricultural campaign (including subsidies for mechanized plowing)	Matheux	Completed	PEA-based EMPR	<ol style="list-style-type: none"> <li>Tilling service must not affect wooded lands nor support extension of agriculture in fragile ecosystems.</li> <li>TA/training of master farmers and extension agents shall incorporate conservation information, such as retaining natural vegetation, especially tree cover, planting trees, including for agro-forestry, and other conservation farming measures.</li> <li>All Technical Assistance/training related to Pest Management must comply with the PERSUAP content.</li> <li>TA/training shall incorporate information from the Fertilizer Factsheet</li> <li>All grants (including to agri-supply stores) must comply with the PERSUAP and shall include a condition to post in the BIAS, a</li> </ol>	<p><b>Measures recommended in the PEA that were fully implemented:</b> 1, 2, 3, 5, 7</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> 4</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 6</p> <p><b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b></p>	

Table 3: NEGATIVE DETERMINATION WITH CONDITIONS

Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
				<p>poster listing the pesticides authorized in the PERSUAP.</p> <p>6. Grants (including to agri-supply stores) shall include a condition to provide fertilizer best practices to clients, as described in the Fertilizer Fact Sheet</p> <p>7. Monitor to ensure that production systems that WINNER is promoting are actually reducing impacts on biologically significant sites : (i) pond of Trou Caiman, (ii) River and fall of Saut d'Eau, (iii) National park La Visite.</p>	<p>None</p> <p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> WINNER promoted the production and use of organic fertilizers.</p>	
Grant to AIZ1: clearing of 62.25 ha of land for irrigation at Tarasse	Gonaïves	Completed	Work plan and project document	<p>1. Biological structures that help control erosion of water channel or lands must be identified ex ante and protected.</p> <p>2. Cleared land must be leveled, if need be, so as to prevent mosquito-multiplication ponds.</p>	<p><b>Measures recommended in the PEA that were fully implemented:</b> None</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> 1</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 2</p>	Only the phase of tree cutting and stump removal has been done. The environmental mitigation measures were not fully implemented because of the stop to the project's activities in Les Gonaïves area.
Installation of CRDDs in plains	Cul-de-Sac Gonaïves Mirebalais Cabaret	Ongoing	Part of activities covered by EMPRs	<p><b>During Planning &amp; Site Selection Phase,</b></p> <p>1. Environmental Due Diligence shall be conducted to insure that any important habitat or ecosystems as well as any cultural or historical assets that may be affected by the project (project boundaries include all ancillary features) will be protected.</p> <p>2. A "hand-over plan" is developed in consultation with relevant community members and government authorities.</p> <p>3. Establish and implement a transparent and fair compensation plan in order to provide fair compensation for any permanent or temporary loss incurred (e.g. buildings, infrastructure, land, crops, gardens, plantations). Ensure that the plan allows affected people to maintain their current housing condition or better.</p> <p>4. All relevant GoH and local legislation is complied with including, as necessary, land acquisition and compensation procedures, and water and sanitation system permits, as outlined in relevant GoH legislation</p> <p>5. Tender documents for construction phase shall include information on water and sanitation systems to be provided and the impacts of these needs on surrounding community must be assessed.</p> <p>6. If need be, incorporate relevant mitigation measures from Road Rehabilitation Mitigation Plan (Cluster 2.4) into engineering contract.</p> <p>7. Tender documents for construction phase should include a requirement for a re-use/recycle and waste segregation plan.</p> <p>8. Construction plans must be approved by a certified engineer, and</p>	<p><b>Measures recommended in the PEA that were fully implemented:</b> 1 through 8, 15, 16</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> 9 through 12, 14, 18, 23, 24, 25</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 13 and 20 to 22</p> <p><b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> 17, 19</p> <p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> NONE</p>	Management Committee to be put in place

**Table 3: NEGATIVE DETERMINATION WITH CONDITIONS**

Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
				<p>construction works must be performed by a qualified and experienced contractor.</p> <p>9. Starting during the planning phase, WINNER shall prepare a maintenance plan (including landscaping and waste management) and shall provide training necessary to ensure sustainable operation of the CRDD.</p> <p><b>During Construction/Renovation phase of buildings, experimental fields and ancillary features:</b></p> <p>10. WINNER shall ensure that all material is sourced in an environmentally sound and sustainable manner.</p> <p>11. Educate workers about procedures to be implemented in case protected species or artifacts are found on-site.</p> <p>12. Engineering contract shall include a stop-work clause that requires project work to stop if these resources are found on site or found to be affected by the project. Work shall resume once collaboration with WINNER senior management and USAID is complete.</p> <p>13. Use erosion control measures during construction such as geotextiles, jersey barriers, haybales, siltscreens (or other appropriate and obtainable material) and do not remove until construction is complete and vegetation is re-established.</p> <p>14. A gender ratio for project staff of as close to 1:1 shall be strived for.</p> <p>15. Local sources of labor should be used to the greatest extent possible.</p> <p><u>To ensure the safety of the public:</u></p> <p>16. Restrict access of the public to hazard areas.</p> <p>17. Hold meetings to educate and inform residents of the work to be carried out.</p> <p>18. Reduce vehicle speed in work zone.</p> <p>19. Implement a communication plan for regular public awareness of project activities.</p> <p><u>To ensure the safety of workers:</u></p> <p>20. Provide appropriate safety equipment (including for noise protection, as needed) and have a first aid kit available onsite during the works.</p> <p>21. Provide adequate training of personnel in safety procedures.</p> <p>22. Post proper signage.</p> <p><b>During decommissioning phase:</b></p> <p>23. Once construction work is complete, restore hydrology and grade to pre-construction condition (or improved drainage) on work sites and adjacent affected areas.</p> <p>24. Clean sites of any debris and garbage linked to construction</p>		

Table 3: NEGATIVE DETERMINATION WITH CONDITIONS

Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
				phase 25. Re-vegetate areas disturbed with naturally occurring vegetation, if possible with vegetation retained from on-site; and/or with erosion control vegetation (vetiver, bamboo, elephant grass).		
<b>Cluster 1.6: Local organizations strengthened</b>						
Construction of a grain (corn and sorghum) processing facility for ADEBABO in Bas-Boen	Cul-de-Sac	Completed	Draft EMPR prepared	<ol style="list-style-type: none"> <li>Managers of facility must be trained in appropriate maintenance of the equipment and their training must stress safe handling of inflammable materials and appropriate disposal of used oils.</li> <li>Both in the construction/building renovation plan and in the operational management plan, due consideration must be given to preventing the multiplication of insects and rodents on the site and the entry of domestic animals in the premises.</li> <li>For all things related to pesticides, strict compliance with the USAID/Haiti mission-wide PERSUAP is required.</li> <li>Restroom facility(ies) must be provided with appropriate means for washing hands after use.</li> </ol>	<b>Measures recommended in the PEA that were fully implemented:</b> 3 <b>Measures recommended in the PEA that are partially or not yet implemented:</b> 1 <b>Measures recommended in the PEA that were inadequately implemented:</b> 2 <b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> None <b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> None	<ol style="list-style-type: none"> <li>Restroom facility(ies) must be provided with appropriate means for washing hands after use.</li> <li>Access to the processing and storage areas must be restricted to domestic animals (namely chicken) of the neighborhood.</li> </ol>
<b>Cluster 2.1: Establish structures that strategically stabilize hillsides and control floods in the plain</b>						
A. Two ravines treated in Belle Fontaine – IOM	Cul-de-Sac	Completed	Draft EMPR prepared	<b>Right from during planning and site selection phase:</b> <ol style="list-style-type: none"> <li>As part of the feasibility study, a biodiversity specialist must assess whether no biological specimen of flora or fauna known as threatened of extinction in the local ecosystem will be affected by the works and, if need be, identify appropriate mitigation measures.</li> <li>Right during the planning phase, WINNER shall make sure the local organizations and the state institutions involved have a plan for the protection and the maintenance of the infrastructures long enough after the works to insure the biological materials get well established (at least during the following rainy season) and that this plan is known and accepted by the stakeholders</li> <li>As part of determining the feasibility of the project, identify the need for land acquisition and compensation.</li> <li>Construction plans must be approved by a certified engineer and take account of the various uses of affected lands after the works to be done.</li> </ol> <b>During construction phase:</b> <ol style="list-style-type: none"> <li>Construction works must be performed by a qualified and experienced contractor and he/she must personally endorse the responsibility that erosion control structures be established following level contour lines and that temporary displaced soil is protected from erosion by rains.</li> <li>Ensure that all material is sourced in an environmentally sound</li> </ol>	<b>Measures recommended in the PEA that were fully implemented:</b> 4, 5, 6, 7  <b>Measures recommended in the PEA that are partially or not yet implemented:</b> 8  <b>Measures recommended in the PEA that were inadequately implemented:</b> 1, 2  <b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> 3  <b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> NONE	<ol style="list-style-type: none"> <li>Measure #1 had not yet been identified when these projects were implemented.</li> <li>The beneficiaries must continue to maintain the structures</li> <li>Appropriate techniques of agro-forestry must be promoted and implemented in the gardens on the slopes surrounding these ravines.</li> </ol>
B. Treatment of 6 km of ravines at Grand Fond (Belle Fontaine) - SOHARDEK	Cul-de-Sac	Completed	Draft EMPR prepared			
C. Treatment of 2.1 km of ravines at Grand Fond - SOHARDEK	Cul-de-Sac	Completed	Draft EMPR prepared			
D. Ravine treatment at Bois Rond Pite (Belle	Cul-de-Sac	Completed	Draft EMPR prepared			

Table 3: NEGATIVE DETERMINATION WITH CONDITIONS

Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
Fontaine) E. Reforestation around ravines treated in Belle Fontaine - FGPB	Cul-de-Sac	Cul-de-Sac	Draft EMPR prepared	and sustainable manner. <b>During decommissioning and maintenance phase:</b> 7. Site must be kept clean of any garbage caused by the works including plastic bags in which the planted trees came from the nursery and those caused by the presence of the workers like packaging for water, food or sweets ... 8. Check that maintenance plan is implemented.		
F. Ravine treatment at Mare Minerve (Belle Fontaine)	Cul-de-Sac	Completed	Draft EMPR prepared	<b>Right from during planning and site selection phase:</b> 1. As part of the feasibility study, a biodiversity specialist must assess whether no biological specimen of flora or fauna known as threatened of extinction in the local ecosystem will be affected by the works and, if need be, identify appropriate mitigation measures.	<b>Measures recommended in the PEA that were fully implemented:</b> 4, 5, 6, 7	1. Measure #1 had not yet been identified when these projects were implemented.
G. Ravine treatment at Zeb Ginen/Bremon (Belle Fontaine)	Cul-de-Sac	Completed	Draft EMPR prepared	2. Right during the planning phase, WINNER shall make sure the local organizations and the state institutions involved have a plan for the protection and the maintenance of the infrastructures long enough after the works to insure the biological materials get well established (at least during the following rainy season) and that this plan is known and accepted by the stakeholders	<b>Measures recommended in the PEA that are partially or not yet implemented:</b> 8	2. The beneficiaries must continue to maintain the structures
H Repair of dry walls at Mahotièrre / Bois Pini (Grant to MONAJEP)	Cul-de-Sac	Completed	Draft EMPR prepared	3. As part of determining the feasibility of the project, identify the need for land acquisition and compensation. 4. Construction plans must be approved by a certified engineer and take account of the various uses of affected lands after the works to be done. <b>During construction phase:</b> 6. Construction works must be performed by a qualified and experienced contractor and he/she must personally endorse the responsibility that erosion control structures be established following level contour lines and that temporary displaced soil is protected from erosion by rains. 7. Ensure that all material is sourced in an environmentally sound and sustainable manner. <b>During decommissioning and maintenance phase:</b> 8. Site must be kept clean of any garbage caused by the works including plastic bags in which the planted trees came from the nursery and those caused by the presence of the workers like packaging for water, food or sweets ... 9. Check that maintenance plan is implemented.	<b>Measures recommended in the PEA that were inadequately implemented:</b> 1, 2 <b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> 3 <b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> NONE	3. Appropriate techniques of agro-forestry must be promoted and implemented in the gardens on the slopes surrounding these ravines.
A. Treatment of 5 km of ravines and reforestation	Gonaïves	Completed	Work plan and project document	<b>Right from during planning and site selection phase:</b> 1. As part of the feasibility study, a biodiversity specialist must assess whether no biological specimen of flora or fauna known as threatened of extinction in the local ecosystem will be affected	<b>Measures recommended in the PEA that were fully implemented:</b> 4, 5, 6, 7	1. Measure #1 had not yet been identified when these projects were implemented.

Table 3: NEGATIVE DETERMINATION WITH CONDITIONS

Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
of 16 hectares of degraded land (grant to APD)  B. Treatment of 6.5 km of ravines and reforestation of 30 hectares of degraded land (grant to AJPAM)	Gonaïves	Completed	Draft EMPR prepared	<p>by the works and, if need be, identify appropriate mitigation measures.</p> <p>2. Right during the planning phase, WINNER shall make sure the local organizations and the state institutions involved have a plan for the protection and the maintenance of the infrastructures long enough after the works to insure the biological materials get well established (at least during the following rainy season) and that this plan is known and accepted by the stakeholders</p> <p>3. As part of determining the feasibility of the project, identify the need for land acquisition and compensation.</p> <p>4. Construction plans must be approved by a certified engineer and take account of the various uses of affected lands after the works to be done.</p>	<p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> 8</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 1, 2</p> <p><b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> 3</p>	<p>2. The beneficiaries must continue to maintain the structures</p> <p>3. Appropriate techniques of agro-forestry must be promoted and implemented in the gardens on the slopes surrounding these ravines.</p>
C. Treatment of 2.5 km of ravines and reforestation of 6 hectares of degraded land (grant to OPLA)	Gonaïves	Completed	Draft EMPR prepared	<p><b>During construction phase:</b></p> <p>5. Construction works must be performed by a qualified and experienced contractor and he/she must personally endorse the responsibility that erosion control structures be established following level contour lines and that temporary displaced soil is protected from erosion by rains.</p> <p>6. Ensure that all material is sourced in an environmentally sound and sustainable manner.</p> <p><b>During decommissioning and maintenance phase:</b></p> <p>7. Site must be kept clean of any garbage caused by the works including plastic bags in which the planted trees came from the nursery and those caused by the presence of the workers like packaging for water, food or sweets ...</p> <p>8. Check that maintenance plan is implemented.</p>	<p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> NONE</p>	
Dredging of D7 canal	Gonaïves	Completed	EMPR	<p><b>Right from during planning and site selection phase:</b></p> <p>1. As part of the feasibility study, a biodiversity specialist must assess whether no biological specimen of flora or fauna known as threatened of extinction in the local ecosystem will be affected by the works and, if need be, identify appropriate mitigation measures.</p> <p>2. Right during the planning phase, WINNER shall make sure the local organizations and the state institutions involved have a plan for the protection and the maintenance of the infrastructures long enough after the works to insure the biological materials get well established (at least during the following rainy season) and that this plan is known and accepted by the stakeholders</p> <p>3. As part of determining the feasibility of the project, identify the need for land acquisition and compensation.</p> <p>4. Construction plans must be approved by a certified engineer and take account of the various uses of affected lands after the works</p>	<p><b>Measures recommended in the PEA that were fully implemented:</b> 4, 5, 6, 9</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> 13</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 1, 2, 10, 11</p> <p><b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> 3</p>	<p>1. Measures #1 and 11 had not yet been identified when this project was implemented.</p> <p>2. An local permanent entity must be charged with the recurrent clearing of the channel to prevent re-growth of rushes and cattail grass</p> <p>3. The channel banks</p>

Table 3: NEGATIVE DETERMINATION WITH CONDITIONS

Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
				<p>to be done.</p> <p><b>During construction phase:</b></p> <ol style="list-style-type: none"> <li>Construction works must be performed by a qualified and experienced contractor and he/she must personally endorse the responsibility that erosion control structures be established following level contour lines and that temporary displaced soil is protected from erosion by rains.</li> <li>Ensure that all material is sourced in an environmentally sound and sustainable manner.</li> <li>Ensure that all materials removed from the channel are disposed of in appropriate manner.</li> <li>Neighbors must be met and informed in advance of how the works are to be conducted and appropriate signs must be posted to keep people out of risky places</li> <li>Whenever human capacities are available in the neighborhood or can be made available through a speedy training, they must be prioritized.</li> <li>An appropriate emergency care kit must be available onsite during performance of the works and worker supervisors must be trained in its use.</li> <li>If ever, artifacts or clues of historic vestiges would be found, works must be stopped and the presence of authorities of ministry of culture as well as the national police must be solicited.</li> </ol> <p><b>During decommissioning and maintenance phase:</b></p> <ol style="list-style-type: none"> <li>Site must be kept clean of any garbage caused by the works including plastic bags in which the planted trees came from the nursery and those caused by the presence of the workers like packaging for water, food or sweets ...</li> <li>Check that maintenance plan is implemented.</li> </ol>	<p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b></p> <p>NONE</p>	<p>must be stabilized with living biological material. Vetiver would be appropriate for this..</p>
Reprofiling and strengthening of the banks of the Rivière Grise	Cul-de-Sac	Completed	Environmental Assessment	<p><b>For all phases:</b></p> <ol style="list-style-type: none"> <li>For ancillary features, implement relevant mitigation measures from Annex G (small-scale construction guidelines); and from Road Rehabilitation Mitigation Plan (Cluster 2.4) as specified in the engineering contract.</li> </ol> <p><b>Right from during planning and site selection phase:</b></p> <ol style="list-style-type: none"> <li>As part of the feasibility study, a biodiversity specialist must assess whether no biological specimen of flora or fauna known as threatened of extinction in the local ecosystem will be affected by the works and, if need be, identify appropriate mitigation measures.</li> <li>Right during the planning phase, A “hand-over plan” must be developed in consultation with relevant community members and</li> </ol>	<p><b>Measures recommended in the EA that were fully implemented:</b></p> <p>4, 5, 6, 7, 8, 9, 11, 13</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b></p> <p>14</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b></p> <p>3,</p> <p><b>Measures recommended in the EA found</b></p>	<ul style="list-style-type: none"> <li>Measure # 13 deemed as not appropriate given the current use of the river bed by users as a discharge for rubbles and domestic wastes</li> <li>Gabions weakened by practice of unregulated gravel mining in the river</li> </ul>

Table 3: NEGATIVE DETERMINATION WITH CONDITIONS

Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
				<p>government authorities and WINNER shall make sure the local organizations and the state institutions involved have a plan for the protection and the maintenance of the infrastructures long enough after the works to insure the biological materials get well established (at least during the following rainy season) and that this plan is known and accepted by the stakeholders</p> <p>4. As part of determining the feasibility of the project, identify the need for land acquisition and compensation.</p> <p>5. Construction plans must be approved by a certified engineer and take account of the various uses of affected lands after the works to be done.</p> <p><b>During construction phase:</b></p> <p>6. Construction works must be performed by a qualified and experienced contractor and he/she must personally endorse the responsibility that erosion control structures be established following level contour lines and that temporary displaced soil is protected from erosion by rains.</p> <p>7. Ensure that all material is sourced in an environmentally sound and sustainable manner.</p> <p>8. Neighbors must be met and informed in advance of how the works are to be conducted and appropriate signs must be posted to keep people out of risky places</p> <p>9. Whenever human capacities are available in the neighborhood or can be made available through a speedy training, they must be prioritized.</p> <p>10. An appropriate emergency care box must be available onsite during performance of the works and worker supervisors must be trained in its use.</p> <p>11. If ever, artifacts or clues of historic vestiges would be found, works must be stopped and the presence of authorities of ministry of culture as well as the national police must be solicited.</p> <p><b>During decommissioning and maintenance phase:</b></p> <p>12. Site must be kept clean of any garbage caused by the works including plastic bags in which the planted trees came from the nursery and those caused by the presence of the workers like packaging for water, food or sweets ...</p> <p>13. Re-vegetate areas disturbed with naturally occurring vegetation, if possible with vegetation retained from on-site; and/or with erosion control vegetation (chiendent, zoysia grass, vetiver, bamboo...).</p> <p>14. Check that maintenance plan is implemented.</p>	<p><b>to be non suitable in the specific case considered:</b> 1, 2, 12</p> <p><b>Other environmental mitigation measures not contemplated in the EA that were implemented:</b> Direction of USAID/WINNER met with directors at the Bureau of Mines and Energy as well as Ministries of Environment and Agriculture and the CIAT. As a result, 5 ministers signed an official statement to banish the discharge of municipal wastes in the river bed and to regulate the gravel and sand mining done there but, unfortunately, none of these members of the government went the extra mile to have the statement published and implemented.</p>	<p>bed and damaged by Hurricane Thomas must be reinforced so as not to undermine the whole structures.</p> <ul style="list-style-type: none"> <li>Awareness should be raised throughout the population about the importance of the gabion walls for protection of lives and investments in the bordering communities, the high cost of installing such structure, the risks for them caused by the unregulated gravel and sand mining and waste discharges practiced in the river bed.</li> <li>As planned, USAID/WINNER will have to fund a comprehensive feasibility study for the sustainable extraction of gravel and sand in the river bed</li> </ul>

**Table 3: NEGATIVE DETERMINATION WITH CONDITIONS**

Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
Reprofiling of the La Quinte river	Gonaïves	Completed	Environmental Assessment	<p><b>For all phases:</b></p> <ol style="list-style-type: none"> <li>For ancillary features, implement relevant mitigation measures from Annex G (small-scale construction guidelines); and from Road Rehabilitation Mitigation Plan (Cluster 2.4) as specified in the engineering contract.</li> </ol> <p><b>Right from during planning and site selection phase:</b></p> <ol style="list-style-type: none"> <li>As part of the feasibility study, a biodiversity specialist must assess whether no biological specimen of flora or fauna known as threatened of extinction in the local ecosystem will be affected by the works and, if need be, identify appropriate mitigation measures.</li> <li>Right during the planning phase, WINNER shall make sure the local organizations and the state institutions involved have a plan for the protection and the maintenance of the infrastructures long enough after the works to insure the biological materials get well established (at least during the following rainy season) and that this plan is known and accepted by the stakeholders</li> <li>As part of determining the feasibility of the project, identify the need for land acquisition and compensation.</li> <li>Construction plans must be approved by a certified engineer and take account of the various uses of affected lands after the works to be done.</li> </ol> <p><b>During construction phase:</b></p> <ol style="list-style-type: none"> <li>Construction works must be performed by a qualified and experienced contractor and he/she must personally endorse the responsibility that erosion control structures be established following level contour lines and that temporary displaced soil is protected from erosion by rains.</li> <li>Ensure that all material is sourced in an environmentally sound and sustainable manner.</li> <li>Neighbors must be met and informed in advance of how the works are to be conducted and appropriate signs must be posted to keep people out of risky places</li> <li>Whenever human capacities are available in the neighborhood or can be made available through a speedy training, they must be prioritized.</li> <li>An appropriate emergency care box must be available onsite during performance of the works and worker supervisors must be trained in its use.</li> <li>If ever, artifacts or clues of historic vestiges would be found, works must be stopped and the presence of authorities of ministry of culture as well as the national police must be solicited.</li> </ol>	<p><b>Measures recommended in the EA that were fully implemented:</b> 1, 2, 4, 5, 6, 7, 9, 11, 12</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> 14</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 3, 13</p> <p><b>Measures recommended in the EA found to be non suitable in the specific case considered:</b> NONE</p> <p><b>Other environmental mitigation measures not contemplated in the EA that were implemented:</b> NONE</p>	<ul style="list-style-type: none"> <li>The state authorities must be informed of the risks to which people who are currently cultivating vegetables within the drainage channel are exposing themselves to and they must be encouraged to take preventing measures.</li> <li>In various places, the banks of the river need to be stabilized. Vetiver grass would be appropriate for this.</li> <li>Places where to cross over the river must be organized or regulated so as not to interfere with the stabilization of the river banks.</li> </ul>

Table 3: NEGATIVE DETERMINATION WITH CONDITIONS

Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
				<p><b>During decommissioning and maintenance phase:</b></p> <p>12. Site must be kept clean of any garbage caused by the works including plastic bags in which the planted trees came from the nursery and those caused by the presence of the workers like packaging for water, food or sweets ...</p> <p>13. Re-vegetate areas disturbed with naturally occurring vegetation, if possible with vegetation retained from on-site; and/or with erosion control vegetation (chiendent, zoysia grass, vetiver, bamboo...).</p> <p>14. Check that maintenance plan is implemented.</p>		
Stabilization of 3.6 km banks of the La Quinte river with vetiver (same part of the river that was widened)	Gonaïves		Work plan and project document	<p><b>During the planning phase:</b></p> <p>1. Neighbors must be met and informed in advance of how the works are to be conducted and appropriate constraint measures taken to regulate where people and animals will be able to cross the banks for not altering the plantation of vetiver.</p> <p>2. Right during the planning phase, WINNER shall make sure the local organizations and the state institutions involved have a plan for the protection and the maintenance of the infrastructures long enough after the works to insure the biological materials get well established (at least during the following rainy season) and that this plan is known and accepted by the stakeholders.</p> <p><b>During the construction and maintenance phases:</b></p> <p>3. Construction works must be performed by (a) qualified and experienced contractor(s) and he/she/they must personally endorse the responsibility that erosion control structures placed following level contour lines.</p> <p>4. Whenever human capacities are available in the neighborhood or can be made available through a speedy training, they must be prioritized.</p> <p>5. Site must be kept clean of any garbage caused by the works including plastic bags in which the planted trees came from the nursery and those caused by the presence of the workers like packaging for water, food or sweets ...</p>	<p><b>Measures recommended in the PEA that were fully implemented:</b> 3, 4</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> 2, 5</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 1</p> <p><b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> NONE</p> <p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> NONE</p>	<p>1. Some parts of the banks themselves were being prepared for cultivation at the time of preparation of this report. The fairness in the process of compensation of owners and users of lands before the widening of the river might have to be revisited</p> <p>2. WINNER has to encourage and assist the Ministry of Agriculture and the local authorities to regulate the use of the river bed for the production of vegetables as this implies (i) a loosening of the top soil and, so doing, an increase of its erodibility and (ii) an intense circulation of people and animals, at any point, on the banks which precludes the growth of vetiver for stabilizing these slopes.</p>
Grant to ODCA for bank stabilization	Matheux	Ongoing	Draft EMPR prepared	<p><b>Right from during planning and site selection phase:</b></p> <p>1. As part of the feasibility study, a biodiversity specialist must assess whether no biological specimen of flora or fauna known as threatened of extinction in the local ecosystem will be affected</p>	<p><b>Measures recommended in the PEA that were fully implemented:</b> 3, 4, 5, 6, 8,</p>	

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Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
of River Courjolle  Grant to APC for bank stabilization of River Torcelle	Matheux	Ongoing	Draft EMPR prepared	<p>by the works and, if need be, identify appropriate mitigation measures.</p> <p>2. Right during the planning phase, WINNER shall make sure the local organizations and the state institutions involved have a plan for the protection and the maintenance of the infrastructures long enough after the works to insure the biological materials get well established (at least during the following rainy season) and that this plan is known and accepted by the stakeholders</p> <p>3. As part of determining the feasibility of the project, identify the need for land acquisition and compensation.</p> <p>4. Construction plans must be approved by a certified engineer and take account of the various uses of affected lands after the works to be done.</p>	<p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> 2, 10, 11, 12</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 1,</p> <p><b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> NONE</p>	
Bank stabilization of Manegue river	Matheux	Ongoing	Draft EMPR prepared	<p><b>During construction phase:</b></p> <p>5. Construction works must be performed by a qualified and experienced contractor and he/she must personally endorse the responsibility that erosion control structures be established following level contour lines and that temporary displaced soil is protected from erosion by rains.</p> <p>6. Ensure that all material is sourced in an environmentally sound and sustainable manner.</p> <p>7. Neighbors must be met and informed in advance of how the works are to be conducted and appropriate signs must be posted to keep people out of risky places</p> <p>8. Whenever human capacities are available in the neighborhood or can be made available through a speedy training, they must be prioritized.</p> <p>9. An appropriate emergency care box must be available onsite during performance of the works and worker supervisors must be trained in its use.</p> <p>10. If ever, artifacts or clues of historic vestiges would be found, works must be stopped and the presence of authorities of ministry of culture as well as the national police must be solicited.</p> <p><b>During decommissioning and maintenance phase:</b></p> <p>11. Site must be kept clean of any garbage caused by the works including plastic bags in which the planted trees came from the nursery and those caused by the presence of the workers like packaging for water, food or sweets ...</p> <p>12. Check that maintenance plan is implemented.</p>	<p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> NONE</p>	

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Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
<b>Cluster 2.2: Restore irrigation systems</b>						
Restoration of Bassin General intake and irrigation canals	Cul-de-Sac	Completed	Draft agriculture EMPR based on KATA model	<p><b>During all phases</b></p> <ol style="list-style-type: none"> <li>Starting during the planning phase, WINNER shall support the development of, training in, and implementation of a maintenance plan.</li> </ol> <p><b>During the planning stage:</b></p> <ol style="list-style-type: none"> <li>Along with economic, social, engineering, and cost issues typically included in feasibility studies, environmental concerns (see individual Cluster Mitigation Plans) shall be included in feasibility studies.</li> <li>As part of determining the feasibility of the project, identify the need for land acquisition and compensation.</li> <li>Tender documents for construction phase should include a requirement for a re-use/recycle and waste segregation plan ;</li> <li>Construction plans must be approved by a certified engineer,</li> </ol> <p><b>During the construction phase:</b></p> <ol style="list-style-type: none"> <li>Construction works must be performed by a qualified and experienced contractor.</li> <li>Neighbors must be met and informed in advance of how the works are to be conducted and appropriate signs must be posted to keep people out of risky places</li> <li>Whenever human capacities are available in the neighborhood or can be made available through a speedy training, they must be prioritized.</li> <li>Ensure that all material is sourced in an environmentally sound and sustainable manner.</li> <li>If need be, for ancillary features, implement relevant mitigation measures from Annex G (small-scale construction guidelines); and from Road Rehabilitation Mitigation Plan (Cluster 2.4) as specified in the engineering contract.</li> <li>During works, the site must be kept free of garbage induced by the presence of workers.</li> </ol>	<p><b>Measures recommended in the PEA that were fully implemented:</b> 4 through 9,</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> 1</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 2,</p> <p><b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> 3, 10</p> <p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> Limited pesticide, herbicide, and petroleum-based fertilizer use.</p>	<ol style="list-style-type: none"> <li>The feasibility study for the permanent dredging of the river bed by a sustainable commercial exploitation of construction materials is critical for the durability of the work performed so far.</li> <li>A better management of the watershed upstream is to be contemplated.</li> </ol>
Replacement of Dubedou irrigation intake	Gonaïves	Completed	Draft EMPR	<p><b>During all phases</b></p> <ol style="list-style-type: none"> <li>Starting during the planning phase, WINNER shall support the development of, training in, and implementation of a maintenance plan.</li> </ol> <p><b>During the planning stage:</b></p> <ol style="list-style-type: none"> <li>Along with economic, social, engineering, and cost issues typically included in feasibility studies, environmental concerns (see individual Cluster Mitigation Plans) shall be included in feasibility studies.</li> <li>As part of determining the feasibility of the project, identify the need for land acquisition and compensation.</li> </ol>	<p><b>Measures recommended in the PEA that were fully implemented:</b> 5, 6, 8</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b></p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 1, 2</p>	<ol style="list-style-type: none"> <li>The river bed should be dredged right upstream the irrigation canal intake for only a small part of the water of the river is currently diverted toward this infrastructure.</li> </ol>

Table 3: NEGATIVE DETERMINATION WITH CONDITIONS

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				<ol style="list-style-type: none"> <li>4. Tender documents for construction phase should include a requirement for a re-use/recycle and waste segregation plan ;</li> <li>5. Construction plans must be approved by a certified engineer,</li> </ol> <b>During the construction phase:</b> <ol style="list-style-type: none"> <li>6. Construction works must be performed by a qualified and experienced contractor.</li> <li>7. Neighbors must be met and informed in advance of how the works are to be conducted and appropriate signs must be posted to keep people out of risky places</li> <li>8. Whenever human capacities are available in the neighborhood or can be made available through a speedy training, they must be prioritized.</li> <li>9. Ensure that all material is sourced in an environmentally sound and sustainable manner.</li> <li>10. If need be, for ancillary features, implement relevant mitigation measures from Annex G (small-scale construction guidelines); and from Road Rehabilitation Mitigation Plan (Cluster 2.4) as specified in the engineering contract.</li> <li>11. During works, the site must be kept free of garbage induced by the presence of workers.</li> </ol>	<p><b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> 3, 10</p> <p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> Limited pesticide, herbicide, and petroleum-based fertilizer use.</p>	<ol style="list-style-type: none"> <li>2. The sliding doors must be replaced in the dam and their management ought to be revised. Currently, people are using rocks to block the gates and divert the water to the irrigation intake. It is inefficient.</li> </ol>
Rehabilitation of 3 electric pumps in the Cul-de-Sac plain	Cul-de-Sac	Completed	Draft EMPR	<p><b>During all phases</b></p> <ol style="list-style-type: none"> <li>1. Starting during the planning phase, WINNER shall support the development of, training in, and implementation of a maintenance plan.</li> </ol> <p><b>During the planning stage:</b></p> <ol style="list-style-type: none"> <li>2. Along with economic, social, engineering, and cost issues typically included in feasibility studies, environmental concerns (see individual Cluster Mitigation Plans) shall be included in feasibility studies.</li> <li>3. As part of determining the feasibility of the project, identify the need for land acquisition and compensation.</li> <li>4. Tender documents for construction phase should include a requirement for a re-use/recycle and waste segregation plan ;</li> <li>5. Construction plans must be approved by a certified engineer,</li> </ol> <p><b>During the construction phase:</b></p> <ol style="list-style-type: none"> <li>6. Construction works must be performed by a qualified and experienced contractor.</li> <li>7. Neighbors must be met and informed in advance of how the works are to be conducted and appropriate signs must be posted to keep people out of risky places</li> <li>8. Whenever human capacities are available in the neighborhood or can be made available through a speedy training, they must be prioritized.</li> </ol>	<p><b>Measures recommended in the PEA that were fully implemented:</b> 4, 5, 6, 8</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> NONE</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 2,</p> <p><b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> 3, 10</p> <p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b></p> <ul style="list-style-type: none"> <li>• Minimized water losses in the on-farm distribution system.</li> <li>• Limited pesticide, herbicide, and petroleum-</li> </ul>	The irrigation canals are to be cleared out periodically.

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				9. Ensure that all material is sourced in an environmentally sound and sustainable manner. 10. If need be, for ancillary features, implement relevant mitigation measures from Annex G (small-scale construction guidelines); and from Road Rehabilitation Mitigation Plan (Cluster 2.4) as specified in the engineering contract. 11. During works, the site must be kept free of garbage induced by the presence of workers.	based fertilizer use.	
Dredging of 14 km of irrigation canals in the Rivière Grise system	Cul-de-Sac	Completed	Work plan and project document	<b>During all phases</b> 1. Starting during the planning phase, WINNER shall support the development of, training in, and implementation of a maintenance plan. <b>During the planning stage:</b> 2. Along with economic, social, engineering, and cost issues typically included in feasibility studies, environmental concerns (see individual Cluster Mitigation Plans) shall be included in feasibility studies. 3. As part of determining the feasibility of the project, identify the need for land acquisition and compensation. 4. Tender documents for construction phase should include a requirement for a re-use/recycle and waste segregation plan ; 5. Construction plans must be approved by a certified engineer, <b>During the construction phase:</b> 6. Construction works must be performed by a qualified and experienced contractor. 7. Neighbors must be met and informed in advance of how the works are to be conducted and appropriate signs must be posted to keep people out of risky places 8. Whenever human capacities are available in the neighborhood or can be made available through a speedy training, they must be prioritized. 9. Ensure that all material is sourced in an environmentally sound and sustainable manner. 10. If need be, for ancillary features, implement relevant mitigation measures from Annex G (small-scale construction guidelines); and from Road Rehabilitation Mitigation Plan (Cluster 2.4) as specified in the engineering contract. 11. During works, the site must be kept free of garbage induced by the presence of workers.	<b>Measures recommended in the PEA that were fully implemented:</b> 4, 5, 6, 8  <b>Measures recommended in the PEA that are partially or not yet implemented:</b> NONE  <b>Measures recommended in the PEA that were inadequately implemented:</b> 2,  <b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> 7, 9, 10  <b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> <ul style="list-style-type: none"> <li>Minimized water losses in the on-farm distribution system.</li> <li>Limited pesticide, herbicide, and petroleum-based fertilizer use.</li> </ul>	<ul style="list-style-type: none"> <li>The neighbors and the local authorities must be made aware of regulations related to the maintenance of the irrigation infrastructure</li> <li>The maintenance committee still needs to be strengthened.</li> <li>The State authorities must be encouraged and assisted in applying regulations on mining and discharge of wastes in the bed of Riviere Grise</li> </ul>
Clearing of Boukanbrou drainage channel	Cul-de-Sac	Completed	Draft EMPR	<b>During all phases:</b> 1. An environmental awareness campaign must be implemented so as to get the neighbors to understand the stakes of this unique ecosystem.	<b>Measures recommended in the PEA that were fully implemented:</b> 6	Trou Caiman being an important bird habitat, any intervention that impacts it must closely

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				<p>2. Environmental awareness campaign activities must not generate mishandled plastic or paper garbage.</p> <p><b>During planning phase:</b></p> <p>3. As part of the feasibility study, a biodiversity specialist must assess whether no biological specimen of flora or fauna known as threatened of extinction in the local ecosystem will be affected by the works and, if need be, identify appropriate mitigation measures.</p> <p>4. Local population must be involved in selection of places where to build footbridges over the channel.</p> <p>5. A local entity must be given the responsibility for police of the channel banks and it must be able to deal with local population and cattle growers.</p> <p><b>During construction and maintenance phases:</b></p> <p>6. Precautions must be taken for not unloading any materials and not leaving any garbage in the water and on the site</p> <p>7. An update of the bathymetric study for the Trou Caiman pond must be conducted</p> <p>8. A coffer dam must be established at the entry of the channel so as to be able to control the level of water allowed to enter the channel.</p> <p>9. The manager of the coffer dam (or the whole pond ?) must be well aware of the environmental stakes.</p> <p>10. A nest must installed at the coffer dam at the entry of the channel so as to retain fish in the pond.</p> <p>11. the nest must be monitored and cleaned so that it does not get clogged and prevent the water from flowing</p> <p>12. The puddle pool, by the roadside, at Chambrun, be dried or reshaped as a fish pond.</p>	<p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> 1, 2</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 3, 4, 5, 7, 8, 9, 10, 11, 12</p> <p><b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> NONE</p> <p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> NONE</p>	<p>monitored. That wasn't the case with this intervention managed in a hurry as a humanitarian cash for wok after the earthquake. Environmental advices were requested only afterwards. This intervention ought to be revisited.</p>
<b>Cluster 2.3: Increase potable groundwater levels in watershed</b>						
Construction of 4 water catchments and building of 2 water systems from capped springs (grant to MONAJEP)	Cul-de-Sac (Kenscoff)	Completed for the engineering work but ongoing for the structuration of the management committee	EMPR	<p><b>During planning phase:</b></p> <p>1. Thorough water quality assessment satisfying norms enacted by DINEPA must be conducted.</p> <p>2. Along with economic, social, engineering, and cost issues typically included in feasibility studies, environmental concerns shall be included in feasibility studies (including considerations for appropriate drainage to prevent erosion and/or presence of ponds that would trigger multiplication of mosquitoes or damages due to soapy water damaging agricultural lands...). As part of determining the feasibility of the project, identify the need for land acquisition and compensation;</p> <p>3. Starting during the planning phase, WINNER shall support the</p>	<p><b>Measures recommended in the PEA that were fully implemented:</b> 4, 5, 6, 7,</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> 3,</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 1,2, 8</p>	<p>1. Slopes upstream the pipes must be protected with agro-forestry structures for they will be damaged by erosion and widening of gullies.</p> <p>2. Drainage of used water at the fountains must be</p>

Table 3: NEGATIVE DETERMINATION WITH CONDITIONS

Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
				<p>development of (following a participatory methodology), the training in, and the implementation of a maintenance plan that includes the recovery of maintenance costs.</p> <p>4. Construction plans must be approved by a certified engineer, <b>During construction phase:</b></p> <p>5. Construction works must be performed by a qualified and experienced contractor.</p> <p>6. Tender documents for construction phase should include a requirement for a re-use/recycle and waste segregation plan;</p> <p>7. Ensure that all material is sourced in an environmentally sound and sustainable manner.</p> <p><b>During decommissioning and maintenance phases:</b></p> <p>8. Water quality must be assessed by (i) measuring pH and conductivity, (ii) examining for colonies of E.coli and (iii) if need be, testing for content in specific heavy metals and pollutants identified in previous test or known to be of problem in the area. The samples of water to be analyzed must be taken at fountain level (and, if need be, at spring level also). This procedure is to be done at least twice during the first year (during the dry and the rainy seasons) and as required thereafter but at least every three years.</p>	<p><b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> NONE</p> <p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> NONE</p>	<p>better devised and completed. They will cause erosion and their quality could affect agricultural lands.</p> <p>3. The management committee needs to be strengthened and the process of implementing a system of payment for the service must be continued so as to allow for the maintenance and any repair.</p>
Repair of the potable water system in Bassin Mangan	Gonaïves	Completed	Work plan and project document	<p><b>During planning phase:</b></p> <p>1. Thorough water quality assessment satisfying norms enacted by DINEPA must be conducted.</p> <p>2. Along with economic, social, engineering, and cost issues typically included in feasibility studies, environmental concerns shall be included in feasibility studies (including considerations for appropriate drainage to prevent erosion and/or presence of ponds that would trigger multiplication of mosquitoes or damages due to soapy water damaging agricultural lands...). As part of determining the feasibility of the project, identify the need for land acquisition and compensation;</p> <p>3. Starting during the planning phase, WINNER shall support the development of (following a participatory methodology), the training in, and the implementation of a maintenance plan that includes the recovery of maintenance costs.</p> <p>4. Construction plans must be approved by a certified engineer, <b>During construction phase:</b></p> <p>5. Construction works must be performed by a qualified and experienced contractor.</p> <p>6. Tender documents for construction phase should include a requirement for a re-use/recycle and waste segregation plan;</p> <p>7. Ensure that all material is sourced in an environmentally sound</p>	<p><b>Measures recommended in the PEA that were fully implemented:</b> 4, 5, 6,</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> 8</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 1, 2, 3,</p> <p><b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> NONE</p> <p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> NONE</p>	<p>1. At least one fountain (by the river bed) seems to be badly conceived. It could cause people to slip and its base is being eroded by rainwater.</p> <p>2. There is no mechanism in place for maintenance of the system and the population expects any fix to be taken in charge by the project or another donor.</p>

**Table 3: NEGATIVE DETERMINATION WITH CONDITIONS**

Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
				and sustainable manner. <b>During decommissioning and maintenance phases:</b> 8. Water quality must be assessed by (i) measuring pH and conductivity, (ii) examining for colonies of E.coli and (iii) if need be, testing for content in specific heavy metals and pollutants identified in previous test or known to be of problem in the area. The samples of water to be analyzed must be taken at fountain level (and, if need be, at spring level also). This procedure is to be done at least twice during the first year (during the dry and the rainy seasons) and as required thereafter but at least every three years.		
Rehabilitation of potable water system in Duvier	Cul-de-Sac (Kenscoff)	Ongoing	Work plan and project document	<b>During planning phase:</b> 1. Thorough water quality assessment satisfying norms enacted by DINEPA must be conducted. 2. Along with economic, social, engineering, and cost issues typically included in feasibility studies, environmental concerns shall be included in feasibility studies (including considerations for appropriate drainage to prevent erosion and/or presence of ponds that would trigger multiplication of mosquitoes or damages due to soapy water in agricultural lands...). As part of determining the feasibility of the project, identify the need for land acquisition and compensation; 3. Starting during the planning phase, WINNER shall support the development of (following a participatory methodology), the training in, and the implementation of a maintenance plan that includes the recovery of maintenance costs. 4. Construction plans must be approved by a certified engineer, <b>During construction phase:</b> 5. Construction works must be performed by a qualified and experienced contractor. 6. Tender documents for construction phase should include a requirement for a re-use/recycle and waste segregation plan; 7. Ensure that all material is sourced in an environmentally sound and sustainable manner. <b>During decommissioning and maintenance phases:</b> 8. Water quality must be assessed by (i) measuring pH and conductivity, (ii) examining for colonies of E.coli and (iii) if need be, testing for content in specific heavy metals and pollutants identified in previous test or known to be of problem in the area. The samples of water to be analyzed must be taken at fountain level (and, if need be, at spring level also). This procedure is to be done at least twice during the first year (during the dry and the rainy seasons) and as required thereafter but at	<b>Measures recommended in the PEA that were fully implemented:</b> 4, 5, 6, <b>Measures recommended in the PEA that are partially or not yet implemented:</b> 2, 3, 8 <b>Measures recommended in the PEA that were inadequately implemented:</b> 1, <b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> NONE <b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> NONE	1. Slopes upstream the pipes must be protected with agro-forestry structures for they will be damaged by erosion and widening of gullies. 2. Drainage of used water at the fountains must be better devised and completed. They will cause erosion and their quality could affect agricultural lands. 3. The management committee needs to be strengthened and the process of implementing a system of payment for the service must be continued so as to allow for the maintenance and any repair.
Set up potable water system in Lefevre (grant to ANC)	Cul-de-Sac (Kenscoff)	Ongoing	EMPR			

Table 3: NEGATIVE DETERMINATION WITH CONDITIONS

Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
				least every three years.		
<b>Cluster 2.4: Rebuild and repair critical transportation infrastructure</b>						
Improvement of a 5.5 kilometer trail in Kenscoff	Cul-de-Sac (Kenscoff)	Completed	Draft EMPR	<p><b>During all phases</b></p> <ol style="list-style-type: none"> <li>Starting during the planning phase, WINNER shall support the development of, training in, and implementation of a maintenance plan.</li> </ol> <p><b>During the planning stage:</b></p> <ol style="list-style-type: none"> <li>Along with economic, social, engineering, and cost issues typically included in feasibility studies, environmental concerns (see individual Cluster Mitigation Plans) shall be included in feasibility studies.</li> <li>As part of determining the feasibility of the project, identify the need for land acquisition and compensation.</li> <li>Tender documents for construction phase should include a requirement for a re-use/recycle and waste segregation plan ;</li> <li>Construction plans must be approved by a certified engineer, with emphasis on drainage, erosion and driving security.</li> </ol> <p><b>During the construction phase:</b></p> <ol style="list-style-type: none"> <li>Construction works must be performed by a qualified and experienced contractor.</li> <li>Neighbors must be met and informed in advance of how the works are to be conducted and appropriate signs must be posted to keep people out of risky places</li> <li>Whenever human capacities are available in the neighborhood or can be made available through a speedy training, they must be prioritized.</li> <li>Ensure that all material is sourced in an environmentally sound and sustainable manner.</li> <li>If need be, for ancillary features, implement relevant mitigation measures from Annex G (small-scale construction guidelines);.</li> <li>During works, the site must be kept free of garbage induced by the presence of workers.</li> </ol>	<p><b>Measures recommended in the PEA that were fully implemented:</b> 8</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b></p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 1, 5, 6,</p> <p><b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> 3, 10</p> <p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b></p>	<ol style="list-style-type: none"> <li>Road dangerous for cars (steep, slippery and with a curve too tight)</li> <li>Drainage canal by the roadside must be completed</li> <li>To protect the road, it would be good to promote agro-forestry on that mountain.</li> </ol>
<b>Cluster 4.1: Leverage public-private partnerships for the majority of watershed interventions</b>						
Production of 150,000 trees of jatropa by Société Biocarburants d'Haïti in Thomazeau, Laffiteau and Carriès	Cul-de-Sac Cabaret/Arca haie	Ongoing	Draft EMPR	<ol style="list-style-type: none"> <li>Baseline study of impacts of pests known to develop on jatropa to be conducted in gardens and native woodlots of the area before project and updated every 3 years given that pest problems (even for so-called hardy species) are exacerbated by monoculture practices and that that issue can also impact gardens in the neighborhood.</li> <li>Use of pesticides (either in nursery or on field) shall comply with the USAID/Haiti approved PERSUAP.</li> <li>Support for fertilizer use shall only be provided with the incorporation of measures from the Fertilizer Factsheet (Annex</li> </ol>	<p><b>Measures recommended in the PEA that were fully implemented:</b> 2, 3</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> 1</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b></p>	<p><b>From communication provided by Société Biocarburants d'Haïti:</b> * Known aphids, arachnids and flies, parasites of jatropa are specific to euphorbs. The only crops of this botanic family cultivated by the peasants, in Haiti, are</p>

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Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
				G).	NONE  <b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> NONE  <b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> No fertilizer nor pesticides were used at all.	castor bean and cassava. None of these plants are cultivated less than 1 km from either plantation. * According to study conducted by CIAT, virus known to affect the jatropha would not be a nuisance for other euphorbs nor any commercial crops grown by peasants.
Grant to MFT: Rehabilitation of feed mill in Cul-de-Sac plain damaged by the earthquake	Cul-de-Sac	Ongoing	Draft EMPR	<p><b>During Planning &amp; Site Selection Phase,</b></p> <ol style="list-style-type: none"> <li>In addition to mitigation measures required for the Construction Phase and the Decommissioning Phase, Tender documents for construction phase should include a requirement for a re-use/recycle and waste segregation plan.</li> <li>Rehabilitation plans must be approved by a certified engineer, and construction works must be performed by a qualified and experienced contractor.</li> </ol> <p><b>During Construction/Renovation phase of buildings, experimental fields and ancillary features:</b></p> <ol style="list-style-type: none"> <li>WINNER shall ensure that all material is sourced in an environmentally sound and sustainable manner.</li> </ol> <p><u>To ensure the safety of workers:</u></p> <ol style="list-style-type: none"> <li>Provide adequate training of personnel in safety procedures.</li> <li>Provide appropriate safety equipment (including for noise protection, as needed).</li> <li>Post proper signage.</li> <li>A gender ratio for project staff of as close to 1:1 shall be strived for.</li> <li>Local sources of labor should be used to the greatest extent possible.</li> </ol> <p><b>During decommissioning and operation phases:</b></p> <ol style="list-style-type: none"> <li>Once construction work is complete, restore hydrology and grade to pre-construction condition (or improved drainage) on work sites and adjacent affected areas.</li> <li>Clean sites of any debris and garbage linked to construction phase</li> <li>Re-vegetate areas disturbed with naturally occurring vegetation, if possible with vegetation retained from on-site; and/or with erosion control vegetation (vetiver, bamboo, elephant grass).</li> </ol>	<p><b>Measures recommended in the PEA that were fully implemented:</b> 1, 2, 3, 5, 8, 9, 12</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> 10</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 7 (because these works required a lot of manpower)</p> <p><b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> 4, 6, 11</p> <p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> Used oil are used for oiling the hinges of gates</p>	

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Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
Grant to MFT to build a new feed mill and a poultry and in Ennery	Gonaïves	Ongoing	Draft EMPR	<p>12. Proper maintenance plan for the generator must be followed and the used oil disposed of in an appropriate manner.</p> <p><b>During Planning &amp; Site Selection Phase,</b></p> <ol style="list-style-type: none"> <li>1. Environmental Due Diligence shall be conducted to insure that any important habitat or ecosystems as well as any cultural or historical assets that may be affected by the project (project boundaries include all ancillary features) will be protected.</li> <li>2. Establish and implement a transparent and fair compensation plan in order to provide fair compensation for any permanent or temporary loss incurred (e.g. buildings, infrastructure, land, crops, gardens, plantations). Ensure that the plan allows affected people to maintain their current housing condition or better.</li> <li>3. All relevant GoH and local legislation is complied with including, as necessary, land acquisition and compensation procedures, and water and sanitation system permits, as outlined in relevant GoH legislation</li> <li>4. Tender documents for construction phase shall include information on water and sanitation systems to be provided and the impacts of these needs on surrounding community must be assessed.</li> <li>5. If need be, incorporate relevant mitigation measures from Road Rehabilitation Mitigation Plan (Cluster 2.4) into engineering contract.</li> <li>6. In addition to mitigation measures required for the Construction Phase and the Decommissioning Phase, Tender documents for construction phase should include a requirement for a re-use/recycle and waste segregation plan.</li> <li>7. Construction plans must be approved by a certified engineer, and construction works must be performed by a qualified and experienced contractor.</li> <li>8. An appropriate discard procedure for wastes of veterinary drugs must be devised. The same must be done for used oils from the maintenance of the electric generator and other machines.</li> </ol> <p><b>During Construction/Renovation phase of buildings, experimental fields and ancillary features:</b></p> <ol style="list-style-type: none"> <li>9. Construction company and supervisor of works shall ensure that all material is sourced in an environmentally sound and</li> </ol>	<p><b>Measures recommended in the PEA that were fully implemented:</b> 3, 4, 6, 7, 8, 16, 17, 20, 21</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> 22, 23, 24</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> 9, 10, 11, 18, 19</p> <p><b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> 1, 2, 5, 12, 13, 14</p> <p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b></p> <ul style="list-style-type: none"> <li>• Access to water for both the feed mill and the poultry are from preexisting wells found onsite.</li> <li>• A pipe and a faucet will be installed to allow facilitate access to potable water to neighbors</li> </ul>	Waste from the poultry and the feed mill will be composted and sold for agriculture.

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Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
				<p>sustainable manner.</p> <p>10. Educate workers about procedures to be implemented in case protected species or artifacts are found on-site.</p> <p>11. Engineering contract shall include a stop-work clause that requires project work to stop if these resources are found on site or found to be affected by the project. Work shall resume once collaboration with WINNER senior management and USAID is complete.</p> <p>12. Place erosion control barriers prior to starting construction and do not remove until construction is complete and vegetation is re-established.</p> <p><u>To ensure the safety of the public:</u></p> <p>13. Restrict access of the public to hazard areas.</p> <p>14. Reduce vehicle speed in work zone.</p> <p>15. Implement a communication plan for regular public awareness of project activities.</p> <p><u>To ensure the safety of workers:</u></p> <p>16. Provide adequate training of personnel in safety procedures.</p> <p>17. Provide appropriate safety equipment (including for noise protection, as needed).</p> <p>18. Post proper signage.</p> <p>19. A gender ratio for project staff of as close to 1:1 shall be strived for.</p> <p>20. Local sources of labor should be used to the greatest extent possible.</p> <p><b>During decommissioning and operation phases:</b></p> <p>21. Once construction work is complete, restore hydrology and grade to pre-construction condition (or improved drainage) on work sites and adjacent affected areas.</p> <p>22. Clean sites of any debris and garbage linked to construction phase</p> <p>23. Re-vegetate areas disturbed with naturally occurring vegetation, if possible with vegetation retained from on-site; and/or with erosion control vegetation (vetiver, bamboo, elephant grass).</p> <p>24. The maintenance plan must be properly implemented and monitored so as not to cause any nuisance for the neighbors.</p>		

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Project activity	Region	Status as of 9/31/ 2010	Reference document	Recommended Mitigation measures	Measures implemented	Comments / Next steps
Subsidy of plowing costs and sugar cane cuttings to sugar cane farmers who will sell their production to Rhum Barbancourt Enterprise (PPP initiative)	Cul-de-Sac	Ongoing	Draft EMPR	<ol style="list-style-type: none"> <li>All Technical Assistance/training related to Pest Management must comply with the PERSUAP content.</li> <li>TA/training shall incorporate information from the Fertilizer Factsheet</li> <li>Plowing must be done at appropriate time according to the quality of soils</li> </ol>	<p><b>Measures recommended in the PEA that were fully implemented:</b> NONE</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> 1, 3</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> NONE</p> <p><b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> 2</p> <p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> NONE</p>	
Promotion of SRI (training and purchase of small machinery)	All regions	Ongoing	PEA-based EMPR	<ol style="list-style-type: none"> <li>TA/training of master farmers and extension agents shall incorporate conservation information, such as retaining natural vegetation, especially tree cover, planting trees, including for agro-forestry, and other conservation farming measures.</li> <li>All Technical Assistance/training related to Pest Management must comply with the PERSUAP content.</li> <li>TA/training shall incorporate information from the Fertilizer Factsheet</li> </ol>	<p><b>Measures recommended in the PEA that were fully implemented:</b> NONE</p> <p><b>Measures recommended in the PEA that are partially or not yet implemented:</b> 1, 2, 3</p> <p><b>Measures recommended in the PEA that were inadequately implemented:</b> NONE</p> <p><b>Measures recommended in the PEA found to be non suitable in the specific case considered:</b> NONE</p> <p><b>Other environmental mitigation measures not contemplated in the PEA that were implemented:</b> NONE</p>	Experiment successful

## Concluding Remarks

Globally, the measures contemplated in the PEA have been or are being implemented except for the considerations for biodiversity right in the planning phase of the activities. This has been particularly critical for activities near areas classified as protected (like the reforestation activity right by the Park national La Visite) or wetlands with a very rich avian biodiversity (like the dredging of the boukanbrou channel coming out of the Trou Caiman pond).

Other processes would benefit some improvement like the strengthening of the capacity of direct beneficiaries or of local or state governance to effectively plan and implement a maintenance plan for the infrastructures and equipment provided. This weakness is patent both in the case of soil conservation and river banks stabilization structures as well as in irrigation infrastructures repaired.

Finally, we will need to ensure that there is a comprehensive reference document in French for technicians in the field to ensure compliance and monitoring of the recommended mitigation measures.