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SUSTAINABLE FISHERIES MANAGEMENT PROJECT (SFMP)

Environmental Mitigation and Monitoring Annual Report



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THE
UNIVERSITY
OF RHODE ISLAND
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Hen Mpoano

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For more information on the Ghana Sustainable Fisheries Management Project, contact:

USAID/Ghana Sustainable Fisheries Management Project

Coastal Resources Center

Graduate School of Oceanography

University of Rhode Island

220 South Ferry Rd.

Narragansett, RI 02882 USA

Tel: 401-874-6224 Fax: 401-874-6920 Email: info@crc.uri.edu

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Cover photo: Monitoring of the DAA fisheries training center (Credit: Hen Mpoano)

Detailed Partner Contact Information:

USAID/Ghana Sustainable Fisheries Management Project (SFMP)
10 Obodai St., Mempeasem, East Legon, Accra, Ghana

Telephone: +233 0302 542497 Fax: +233 0302 542498

Maurice Knight	Chief of Party maurice@crc.uri.edu
Kofi Agbogah	Senior Fisheries Advisor kagbogah@henmpoano.org
Nii Odenkey Abbey	Communications Officer nii.sfmp@crcuri.org
Bakari Nyari	Monitoring and Evaluation Specialist hardinyari.sfmp@crcuri.org
Brian Crawford	Project Manager, CRC brian@crc.uri.edu
Justice Odoi	USAID Administrative Officer Representative Jodoi@usaid.gov

Kofi.Agbogah
kagbogah@henmpoano.org
Stephen Kankam
skankam@henmpoano.org
Hen Mpoano
38 J. Cross Cole St. Windy Ridge
Takoradi, Ghana
233 312 020 701

Andre de Jager
adejager@snvworld.org
SNV Netherlands Development Organisation
#161, 10 Maseru Road,
E. Legon, Accra, Ghana
233 30 701 2440

Donkris Mevuta
Kyei Yamoah
info@fonghana.org
Friends of the Nation
Parks and Gardens
Adiembra-Sekondi, Ghana
233 312 046 180

Peter Owusu Donkor
Spatial Solutions
powusu-donkor@spatialdimension.net
#3 Third Nautical Close,
Nungua, Accra, Ghana
233 020 463 4488

Thomas Buck
tom@ssg-advisors.com
SSG Advisors
182 Main Street
Burlington, VT 05401
(802) 735-1162

Victoria C. Koomson
cewefia@gmail.com
CEWEFIA
B342 Bronyibima Estate
Elmina, Ghana
233 024 427 8377

Lydia Sasu
daawomen@daawomen.org
DAA
Darkuman Junction, Kaneshie Odokor
Highway
Accra, Ghana
233 302 315894

Gifty Asmah
giftyasmah@Daasgift.org
Daasgift Quality Foundation
Headmaster residence, Sekondi College
Sekondi, Western Region, Ghana
233 243 326 178

For additional information on partner activities:

CRC/URI:	http://www.crc.uri.edu
CEWEFIA:	http://cewefia.weebly.com/
DAA:	http://womenthrive.org/development-action-association-daa
Daasgift:	https://www.facebook.com/pages/Daasgift-Quality-Foundation-ENGO/135372649846101
Friends of the Nation:	http://www.fonghana.org
Hen Mpoano:	http://www.henmpoano.org
SNV:	http://www.snvworld.org/en/countries/ghana
SSG Advisors:	http://ssg-advisors.com/
Spatial Solutions:	http://www.spatialsolutions.co/id1.html

ACRONYMS

BEO	Bureau Environmental Officer
CEWEFIA	Central and Western Region Fishmongers Improvement Association
CFR	Code of Federal Regulations
CSLP	Coastal Sustainable Landscape Project
CRC	Coastal Resource Center
CSLP	Coastal Sustainable Landscape Project
DAA	Development Action Association
DFTC	DAA Fisheries Training Center
ECO	Environmental Compliance Officer
ESDM	Environmentally Sound Design & Management
EIA	Environmental Impact Assessment
EMMP	Environmental Mitigation and Monitoring Plan
ESDM	Environmentally Sound Design and Management
FCMCBSP	Fisheries and Coastal Management Capacity Building Support Project
FY	Fiscal Year
HM	Hen Mpoano
IEE	Initial Environmental Examination
IP	Implementing Partners
MEO	Mission Environmental Officer
REA	Regional Environmental Advisor
SFMP	Sustainable Fisheries Management Project
SMEs	Small and Medium Enterprises
SNV	Netherlands Development Organization
UCC	University of Cape Coast
URI	University of Rhode Island
USAID	United States Agency for International Development

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OVERVIEW

Environmental Compliance is a mandatory requirement for all USAID-funded programs, to ensure project activities do not have significant impact on the environment. USAID Implementing Partners are obligated to consider throughout the life of project, environmental impacts arising from its activities.

During the FY 2017 of the SFMP, All USAID environmental requirements laid down in the project Environmental Mitigation and Monitoring Plan (EMMP) were complied with to ensure no significant impact on the environment from activity implementation.

Inspection and Regular Monitoring

There were follow up monitoring visits to the DAA fisheries training center and sites where improved fish smoking ovens were constructed. As at the end of FY 2017, the training center had not been completed as planned. This has been attributed to the delay in signing the addendum of the contract.

The site for the CEWEFIA Fisheries Center at Elmina in the Central Region was also inspected and the necessary protocols developed for monitoring its construction. The contractor was taken through the protocols to ensure the construction is in compliance with USAID environmental procedures. Although there was delay in the construction activities, construction of the CEWEFIA fisheries center is progressing steadily after its commencement in July.

Environmental mitigation and monitoring forms were prepared for SNV, DAA and CEWEFIA for monitoring their activities.

USAID Environmental Compliance and Environmentally Sound Design and Management (ESDM) Training workshop

In January, 2017, the Environmental Compliance officer and 4 other officers from selected SFMP partners benefited from a training of trainers workshop organized by USAID. The five-day training workshop on Environmental Compliance and Environmentally Sound Design & Management (ESDM) was organized for USAID/Ghana and West Africa staff and partners in Akosombo to strengthen environmentally sound design and management of USAID funded activities. (See Figure 1)

This training was highly useful since participants were exposed to the USAID environmental compliance procedures and given an overview of environmentally sound and management principles, USAID environmental compliance regulations and procedures and skill in Environmental Impact Assessment (EIA). The combined approach of classroom training and field exercises provided the potential trainers practical skills in the development of Environmental Impact Assessment and Environmental Mitigation and Monitoring Plan. The skills acquired has enhanced monitoring of project activities.



Figure 1 Picture collage from the Environmental Compliance training workshop at Akosombo

Environmentally Sound Design and Management (ESDM) Trainer of Trainers workshop in Akosombo in January 2017. (See Figure 1).

Environmental Compliance training for SFMP and other USAID Implementing Partners

Based on recommendations that came up during the training, a two-day Environmental Compliance training workshop was organized to train personnel working on the SFMP, Coastal Sustainable Landscape Project (CSLP) and the University of Cape Coast Fisheries and Coastal Management Capacity Building Support Project (FCMCBSP).



Figure 2 Picture collage from the Environmental Compliance training for partners in Takoradi

Beneficiaries of the ToT, led by the Environmental Compliance officer of SFMP, facilitated this SFMP organized training workshop. (See Figure 2) Eighteen participants from SFMP partner organizations, CSLP and University of Cape Coast's Fisheries and Coastal Management Capacity Building Support Project were provided fundamental skills in the development of USAID Initial Environmental Examination (IEE), Environmental Impact Assessment (EIA) and EMMP. These officers are now more environmentally aware in project implementation and monitoring.

ENVIRONMENTAL MITIGATION AND MONITORING TABLE

Most activities that partners implementing had negative determination with conditions. Activities conducted in the FY 2017 that had conditions and required monitoring and /or mitigation plans are included in the table below

Table 1 Environmental Mitigation and Monitoring Results

Mitigation Measure	Responsible Party	Monitoring Scheme			Estimated cost	Monitoring Log		
		Indicators	Data source/ method	How often		Date	Result	Follow-up
Activity 4.3 Integrated Community Fisheries Management and Resilience Plans for the Ankobra River Estuarine and Mangrove Ecosystem								
<i>4.3.4 Early actions for community resilience - Pilot Mangrove Forest Restoration effort</i>								
Section 3.3 Fisheries Extension and Coastal Forests: <ul style="list-style-type: none"> Identify appropriate reforestation techniques MUST be monitored to assure that promoted techniques are appropriate to the specific local context. Evaluation must be conducted with full attention to potential adverse impacts, Promoted species must be endorsed for use by the relevant governmental authority; Promoted/utilized biologic agents for soil fertility enhancement (if any) must be approved by the cognizant GoG entity and must be used/ promoted in conformity with the directives and restrictions attached to such approval. Use pesticides only in conformity with the provisions of a duly approved PERSUAP specifically designated as covering the activity in question. In the absence of such a PERSUAP, pesticide use is NOT permitted. Seed distribution (if any) and input provision must be consistent with the above requirements. Treated seed must be dyed and seed distribution must be 	HM	Review and screening of all documents, advocacy materials, and training curricula to ensure they are environmentally sound and follow the points outlined in the mitigation measures	Review and screening of materials	During mangrove establishment period	NA	Oct 2016 to Sept 2017	During nursing of the mangrove seedlings, it was ensured that no chemicals (fertilizers & pesticides) were used. The species nursed were the dominant mangrove species of the area and the preferred species by the	The nursery establishment and replanting activity will be extended in FY2018. It will be ensure that all the points listed out in the mitigation measures are followed

Mitigation Measure	Responsible Party	Monitoring Scheme			Estimated cost	Monitoring Log		
		Indicators	Data source/ method	How often		Date	Result	Follow-up
<p>accompanied by education regarding appropriate handling and non-edibility.</p> <ul style="list-style-type: none"> Demonstration and extension activities may not use/promote genetically modified cultivars. Such support can only be undertaken in conformity with USAID's biosafety procedures and requires an associated amendment to this IEE. Integrate significant stakeholder consultation, including customary users of resources 						community (<i>Rhizophora</i> and <i>Avicenia Sp</i>)		
Activity 4.4 Integrated Community Fisheries Management for the Pra								
Activity 4.4.1 Training of youth and women on woodlot management/maintain the woodlot plantation in Anlo								
<p>IEE Section 3.3 Fisheries Extension/3a. Institutional strengthening, training/TA / 3b-Fisheries:</p> <p>During training of the youth and women on woodlot management activities, there should be integration and promotion of general awareness of the environmental, health and safety risks presented by unsustainable use of woodlots, reforestation, tree plantations, fishing and coastal economic activities, and appropriate choices and measures to manage these risks as rooted in appropriate land mgt. plans.</p> <p><i>Fisheries chapter of USAID's Sector Environmental Guidelines</i> (http://www.usaidgems.org/sectorGuidelines.htm).</p>	CEWEFIA	Review and screen all documents, advocacy materials, and training curricula to ensure that they are environmentally sound and follow the points outlined in the mitigation measures	Reviewing and screening of materials	When trainings are provided and as to when documents, advocacy materials and training curricula are developed	NA	2/5/2017 11/5/2017	Training curricula development	Training curricula and materials reviewed and screened During the training the facilitator was monitored to integrate the environmental issues stated in the training curricula

Mitigation Measure	Responsible Party	Monitoring Scheme			Estimated cost	Monitoring Log		
		Indicators	Data source/ method	How often		Date	Result	Follow-up
Activity 4.5 Value Chain Improvements								
Activity 4.5.4 Training of MSMEs in fish processing business development in Greater Accra								
<p>IEE Section 3.3 Fisheries Extension/3a. Institutional strengthening, training/TA/ 3b-Fisheries:</p> <p>During training of MSME's in fish processing business development, there should be integration and promotion of general awareness of the environmental, health and safety risks presented by unsustainable use of woodlots, reforestation, tree plantations, fishing and coastal economic activities, and appropriate choices and measures to manage these risks as rooted in appropriate land mgt. plans.</p> <p><i>Fisheries chapter of USAID's Sector Environmental Guidelines</i> (http://www.usaidgems.org/sectorGuidelines.htm).</p>	SNV	Review and screening of all documents, advocacy materials, and training curricula to ensure that they are environmentally sound and follow the points outlined in the mitigation measures	Review and screening of materials	When trainings are provided and as to when documents, advocacy materials and training curricula are developed	NA	8/12/2016	Reviewed design for IEC materials	25/07/2017 Design for new IEC materials were also reviewed with sound messaging
						25/4/2017	Reviewed training guide and included environmentally sound concepts	12/05/2017 Also reviewed design on record books printed
Activity 4.5.6: Construction of 100 improved stoves in Volta Region Accra region								
<p>IEE Section 3.5 Infrastructure: Agricultural plots and nurseries/6.1 rehabilitation or new facilities less than 1000M2.</p> <p>1. Site Selection</p> <ul style="list-style-type: none"> Average slope of less than 5% and is not heavily forested, in an otherwise undisturbed local ecosystem, or in a protected area. The site is not within 30m of a permanent or seasonal stream or water body 	SNV	Field reports during and after construction by the Environmental Compliance Officer.	Regular field visits during construction period	During construction activities	NA	20/3/2017	Monitored 6 demo Ahotor ovens All six ovens were constructed to the listed specifications.	09/08/2017 Monitored retrofitted oven at James Town. Oven is among other chorkor stoves in a demonstration facility.

Mitigation Measure	Responsible Party	Monitoring Scheme			Estimated cost	Monitoring Log		
		Indicators	Data source/ method	How often		Date	Result	Follow-up
<p>2. Construction</p> <ul style="list-style-type: none"> • IPs must desist from extracting fill, sand or gravel from waterways or ecologically sensitive areas • IPs must identify and implement any feasible measures to increase the probability that forest products like timber are procured from legal, well-managed sources. • Construction must be managed so that no standing water on the site more than 4 days; <p>3. Refurbishments of drying shed and the training on use and maintenance of the smoking ovens</p> <ul style="list-style-type: none"> • IP shall create awareness among users on the environmental damage of unsustainable use of grown woodlots • Provide personal safety equipment to all workers (i.e. hard hats, goggles, steel-toed boots, gloves, dust masks). <p>4. Safety and health • The contractor will:</p> <ul style="list-style-type: none"> • Be required to have a Health and Safety Plan. • Be required to train the construction staff on the Health and Safety Plan. • Provide training on proper use of equipment. • Provide personal safety equipment to all workers (i.e. hard hats, goggles, steel-toed boots, gloves, dust masks). • Provide firefighting equipment/measures. • Provide medical services (access to a first aid kit). 					<p>24&25/05/2017</p> <p>25/10/2017</p> <p>24 &25/08/2017</p>	<p>Monitored 3 double Ahotor ovens in Kumasi. Some level of bush was cleared, but not a heavily forested area. All materials were acquired from certified suppliers.</p> <p>Monitored a demo oven at Tema New Town. It was built to environmental specifications</p> <p>Monitoring of retrofitted Morison stoves in the</p>	<p>Sanitation issues may be of concern</p>	

Mitigation Measure	Responsible Party	Monitoring Scheme			Estimated cost	Monitoring Log		
		Indicators	Data source/ method	How often		Date	Result	Follow-up
							Central Region. Ovens are already within standard; our focus was the safety aspect for the builder.	
Activity 4.5.7: Training of Trainers on stove use								
<p>During training activities, there should be integration and promotion of general awareness of the environmental, health and safety risks presented by unsustainable use of woodlots, reforestation, tree plantations, fishing and coastal economic activities, and appropriate choices and measures to manage these risks as rooted in appropriate land management plans.</p> <p><i>Fisheries chapter of USAID's Sector Environmental Guidelines</i> (http://www.usaidgems.org/sectorGuidelines.htm).</p>	SNV	Review and screening of all documents, advocacy materials, and training curricula to ensure that they are environmentally sound and follow the points outlined in the mitigation measures	Review and screening of materials	When trainings are provided and as to when documents, advocacy materials and training curricula are developed	NA	11/10/2016	Reviewed training guide and other documents and made needed inputs	
Activity 4.5.14: Construction of DAA Fisheries Training Center								
<p>IEE Section 3.5 Infrastructure: Agricultural plots and nurseries/6.1 rehabilitation or new facilities less than 1000M2</p> <p>1. During construction, IPs must ensure that contractors:</p> <ul style="list-style-type: none"> Desist from extracting fill, sand or gravel from waterways or ecologically sensitive areas 	ECO, SNV, DAA	Completed review and screening form to ensure that the construction activity is environmentally sound and follow the points outlined in the mitigation	Environmental and monitoring forms for the construction of the DAA Fisheries Training Center	Monthly visits during construction work	NA	Dates site were visited include: 23/12/16 06/01/17 01/02/17	The contractor was taken through the USAID Environmental	Completion of the center has delayed, at the roofing stage.

Mitigation Measure	Responsible Party	Monitoring Scheme			Estimated cost	Monitoring Log		
		Indicators	Data source/method	How often		Date	Result	Follow-up
<ul style="list-style-type: none"> Identify and implement any feasible measures to increase the probability that forest products like timber are procured from legal, well-managed sources. Minimize the use of heavy machines Construction must be managed so that no standing water on the site persists more than 4 days; Prevent dumping of hazardous materials. Burn waste materials that are not reusable/readily recyclable, do not contain heavy metals and are flammable Concentrate noisiest types of work into as short a period as possible, and during least disruptive times of the day. Take measures to keep dust to a minimum Bore hole to be dug for domestic use should be tested for arsenic, coliform, nitrates and nitrites. <p>2. No lead-based paint shall be used. When lead-free paint is used, it will be stored properly so as to avoid accidental spills or consumption by children; empty cans will be disposed of in an environmentally safe manner away from areas where contamination of water sources might occur; and the empty cans will be broken or punctured so that they cannot be reused as drinking or food containers.</p> <p>3. Waste handling equipment and infrastructure. USAID intervention must result in the facilities' possessing adequate provision for handling the wastes they may generate; including human wastes.</p> <p>4. In terms of safety and health risks;</p> <ul style="list-style-type: none"> The contractor that will be responsible for the rehabilitation works will be required to have a Health & Safety Plan. The contractor will train the construction staff on the Health & Safety Plan. 		<p>measures in the IEE/EMMP</p> <p>Field reports of physical inspection during and after construction by the Env. Comp. Officer</p>	Field Reports during construction		<p>17&24/03/17</p> <p>28/04/17</p> <p>05/05/17</p> <p>20/06/17</p> <p>01/08/17</p> <p>16/09/17</p>	<p>procedures and the monitoring protocol developed to ensure the construction activities do not have significant impact on the environment</p> <p>Continuous monitoring of DFTC construction process. Construction firm has a Health and Safety Policy, and provided PPE's for all personnel and visitors.</p> <p>Waste is managed well and no pool of water has</p>	<p>A well has been dug out yet to be treated</p> <p>There will be one final monitoring to ensure proper lead free paints are used</p>	

Mitigation Measure	Responsible Party	Monitoring Scheme			Estimated cost	Monitoring Log		
		Indicators	Data source/ method	How often		Date	Result	Follow-up
<ul style="list-style-type: none"> The contractor will be required to provide training on proper use of equipment. The contractor will provide personal safety equipment to all workers (i.e. hard hats, goggles, steel-toed boots, gloves, dust masks). The contractor will provide firefighting equipment/measures. The contractor will ensure proper storage of building materials. The contractor provides medical services (access to a first aid kit). Prevent access to site at all times by unauthorized persons 						<p>been spotted.</p> <p>Area well fenced to prevent intrusion of people and animals</p> <p>Construction was advised on how best to manage and place tools to ensure safety.</p>		
Activity 4.5.17 Two- day Training on Hygienic Fish Handling								
<p>IEE Section 3.3 Fisheries Extension/3a. Institutional strength., training/TA / 3b-Fisheries:</p> <p>During training activities, there should be integration and promotion of general awareness of the environmental, health and safety risks presented by unsustainable use of woodlots, reforestation, tree plantations, fishing and coastal economic activities, and appropriate choices and measures to manage these risks as rooted in appropriate land management plans.</p> <p><i>Fisheries chapter of USAID's Sector Environmental Guidelines</i> (http://www.usaidgems.org/sectorGuidelines.htm).</p>	CEWEFIA	Review and screening of all documents, advocacy materials, and training curricula to ensure that they are environmentally sound and follow the points outlined in the mitigation measures	Review and screening of materials	When trainings are provided and as to when documents, advocacy materials and training curricula are developed	NA	12/01/17-13/01/17	Training documents reviewed	The facilitators were monitored to integrate environmental issues in the training

Mitigation Measure	Responsible Party	Monitoring Scheme			Estimated cost	Monitoring Log		
		Indicators	Data source/method	How often		Date	Result	Follow-up
Activity 4.5.20: CEWEFIA FISHERIES TRAINING CENTER								
<p>IEE Section 3.5 Infrastructure: Agricultural plots and nurseries/6.1 rehabilitation or new facilities less than 1000M2</p> <ul style="list-style-type: none"> During construction, IPs must ensure that contractors: <ul style="list-style-type: none"> Desist from extracting fill, sand or gravel from waterways or ecologically sensitive areas Identify and implement any feasible measures to increase the probability that forest products like timber are procured from legal, well-managed sources. Minimize the use of heavy machines Construction must be managed so that no standing water on the site persists more than 4 days; Prevent dumping of hazardous materials. Burn waste materials that are not reusable/readily recyclable, do not contain heavy metals and are flammable Concentrate noisiest types of work into as short a period as possible, and during least disruptive times of the day. Take measures to keep dust to a minimum Bore hole to be dug for domestic use should be tested for arsenic, coliform, nitrates and nitrites. No lead-based paint shall be used. When lead-free paint is used, it will be stored properly so as to avoid accidental spills or consumption by children; empty cans will be disposed of in an environmentally safe manner away from areas where contamination of water sources might occur; and the empty cans will be broken or punctured so that they cannot be reused as drinking or food containers. Waste handling equipment and infrastructure. USAID intervention must result in the facilities' possessing adequate provision for handling the wastes they may generate; including human wastes. 	ECO, CEWEFIA	<p>Completed review and screening form to ensure that the construction activity is environmentally sound and follow the points outlined in the mitigation measures in the IEE/EMMP</p> <p>Field reports of physical inspection during and after construction by the Env. Comp. Officer</p>	<p>Environmental and monitoring forms for the construction of the CEWEFIA Fisheries Training Center</p> <p>Field Reports during and immediately following construction</p>	During construction activities	NA	<p>11/04/17</p> <p>25/5/2017</p> <p>19/7/2017</p>	<p>Initial site visit of the CEWEFIA training center.</p> <p>The contractor met all the requirements</p> <p>Meeting with the contractor to take him through the USAID Environmental procedures and the monitoring protocol developed to ensure the construction activities do not have significant impact on the environment</p>	Monitoring visit to check progress of work and observe if they are following the environmental compliance procedures

Mitigation Measure	Responsible Party	Monitoring Scheme			Estimated cost	Monitoring Log		
		Indicators	Data source/ method	How often		Date	Result	Follow-up
<ul style="list-style-type: none"> • In terms of safety and health risks; <ul style="list-style-type: none"> • The contractor that will be responsible for the rehabilitation works will be required to have a Health & Safety Plan. • The contractor will train the construction staff on the Health & Safety Plan. • The contractor will be required to provide training on proper use of equipment. • The contractor will provide personal safety equipment to all workers (i.e. hard hats, goggles, steel-toed boots, gloves, dust masks). • The contractor will provide firefighting equipment/measures. • The contractor will ensure proper storage of building materials. • The contractor provides medical services (access to a first aid kit). <p>Prevent access to site at all times by unauthorized persons</p>					8/8/2017	Workers in proper protective gears during construction activity		

PICTURES FROM MONITORING ACTIVITIES



Figure 3 DAA fisheries training center



Figure 4 CEWEFIA fisheries training center at Elmina in the Central Region



Figure 5 Two double demonstration units at Tema New Town



Figure 6 Two double unit smokers at Ejisu-Kumasi (30%/70%)



Figure 7 A demonstration oven at Keta



Figure 8 CEWEFIA woodlot plantation site at Anlo



Figure 9 CEWEFIA woodlot plantation site at Anlo, Scene 2



Figure 10 CEWEFIA woodlot plantation site at Anlo, Scene 3



Figure 11 Mangrove nursery establishment and replanting site at Ankobra



Figure 12 Mangrove nursery establishment and replanting site at Ankobra, Scene 2