MALAWI ENVIRONMENTAL MONITORING PROGRAMME COOPERATIVE AGREEMENT NO. 690-0235-A-00-6060-00 WORKPLAN 1 APRIL 1997 TO 31 MARCH 1998

STRATEGIC OBJECTIVE 2.0: INCREASED SUSTAINABLE USE, CONSERVATION AND MANAGEMENT OF RENEWABLE NATURAL RESOURCES

Life of Activity Results and Indicators	ID	Description	Start Date	End Date	Output	Level of Effort in I Months (PDs/PMs subcontracts/gran	and local				
Sub-Programme I: Expand Environmen	tal Moni	Monitoring Technologies									
	Comp	ponent 1. Catchment Monitoring									
	Refin	e quality of data collection and analysi	is								
	1.1	Develop a monitoring strategy for MEMP catchments	6/16/97	6/27/97	Report with recommendations for analysis and interpretation of 1996/97/98 data sets.	LTTA - MTA: LTTA - ESA:	.5 PM .5 PM				
			8/1/97	proposed	Agencies adopt the monitoring strategy during 1997/98.	LTTA - MTA: LTTA - ESA:					
			10/1/97	10/15/97	Field assistants and desk officers trained on data analysis for the revised monitoring strategy	LTTA - MTA: LTTA - ESA:	.5 PM				
	1.2	Specification of methods for data collection at a regional scale or major watershed level.	2/1/98	3/31/98	Report of methods applied to each watershed scale.	LTTA - MTA: LTTA - ESA:	2 PM				
	Repo	rting and communication of environme	ental inform	ation	•						
	1.3	Develop synthesis reporting format for integration of sectoral data and reports	5/19/97	5/30/97	Format for synthesis reports suitable for catchments of varying spatial scales	LTTA - MTA: LTTA - ESA:	.5 PM .5 PM				
			5/26/97	6/6/97	Synthesis report on specific catchments or issues for the 1995/96 monitoring season.	LTTA - MTA: LTTA - ESA:	.5 PM .5 PM				
		Perform in-service training in data analysis and report production using information provided from models and analytical software for the MEMP catchments and secondary data for larger watersheds.	3/1/98	3/15/98	Standardized reporting format(s) for comparison and ranking of data from different catchments.	LTTA - MTA: LTTA - ESA:	.5 PM .5 PM				

			Tasks				
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			1/12/98	2/6/98	Thematic reports integrating data from MEMP catchments, secondary data and the Area Sample Frame	LTTA - MTA: LTTA - ESA:	1 PM 1 PM
	Sumi	narize lessons learned from catchment	monitoring				
	1.4	Perform a critical review of monitoring methods across catchments	8/1/97	12/31/97	Cross-catchment comparison of procedures performed and described in the first section of a detailed report	LTTA - MTA: LTTA - ESA:	.5 PM
	1.5	Summarize what has been learned regarding the monitoring of impacts of land use change	8/1/97	12/31/97	Cross-catchment comparison of findings regarding the relationships of rainfall to runoff and related environment impacts.	LTTA - MTA: LTTA - ESA:	1PM
	1.6	Develop recommendations for the use of these methods in monitoring other catchments	8/1/97	12/31/97	Recommendations for the use of specific techniques in specific situation to assess environmental impacts of land degradation (or rainfall/runoff relationships).	LTTA - MTA: LTTA - ESA:	.5 PM .5 PM
	Com	ponent 2. Develop a Prototype Environ	nmental Info	ormation Syst			
		sment of Causes of Sedimentation in t		•			
	2.1	Provide technical support for data collection and archiving provided to the Task Force Analysis Team.	6/15/97	7/31/97	Process satellite imagery according to map standards	EIS AT STTA - CU: (M. Snel, N. Hahn)	1.5 PM
		·	7/1/97	8/1/97	Digital base maps of roads, boundaries, hydrography, and elevation model	EIS AT STTA - CU: (M. Snel, N. Hahn)	1 PM
	2.2	Provide technical support for GIS/Remote Sensing analysis by the Task Force Analysis Team	7/1/97	8/31/97	Landuse / Landcover Maps for covering the BLADD and MADD areas of the Shire River Valley based on Landsat data.	EIS AT STTA - CU: (M. Snel, N. Hahn, R. Eastman)	2 PM
			10/1/97	10/30/97	Landcover Change Map for BLADD and MADD areas of the Shire River Valley.	EIS AT STTA - CU: (M. Snel, N. Hahn)	1 PM
			11/1/97	12/15/97	Soil Erosion Hazard Map for BLADD and MADD based on:	EIS AT	1.5 PM

Life of Activity Results and Indicators	ID	Description	Start Date	End Date	Output	Level of Effort in Person Months (PDs/PMs) and subcontracts/grants	
					landuse / landcover, rainfall intensity, soils, and slope data.	STTA - CU: (M. Snel)	
			8/15/97	8/30/97	Watershed mapping for BLADD and MADD areas of Shire River Valley.	EIS AT STTA - CU: (M. Snel,)	.5 PM
	2.3	Develop an action oriented, community based social research methodology that is replicable by the Government of Malawi and linked to environmental problems identified by geographic and physical analysis.	11/1/97	1/30/97	Report on methodology with suggestions for implementation, especially as it links to geographic technologies.	STTA - CU: (N. Haan,)	
	2.4	Produce a chain of explanation which will advise the GoM on potential scenarios for intervention and their respective anticipated impacts for the sedimentation problem identified in the Shire watershed.	11/1/97	1/30/97	Research paper that illustrates chain of explanation for policy implications based on intensive study of 2-3 communities.	STTA - CU: (N. Haan,)	
		ew of Shire River Situation Analysis Re		- (20 to =		T pro mom	
	2.5	Provide technical input to improve institutional and technical infrastructures and analytical capacities.	6/22/97	6/30/97	Report of progress on information developed for the Shire River with assessment and recommendations for technical infrastructure and analytical capacities for the prototype EIS.	EIS TST STTA - CU: (R. Eastman) STTA - UA: (C. Hutchinson or WRI) LTTA - MTA	.5 PM
			8/30/97	9/7/97	Report reviewing months 1-3 of data analysis.	EIS TST STTA - CU: (R. Eastman) STTA - UA: (C. Hutchinson or WRI) LTTA - MTA	.5 PM
			12/15/97	12/31/97	Report reviewing the Situation Analysis Report.	EIS TST STTA - CU: (R. Eastman) STTA - UA: (C. Hutchinson or WRI)	.5 PM

			Tasks				
Life of Activity Results and Indicators	ID	Description	Start Date	End Date	Output	Level of Effort in Perso Months (PDs/PMs) and subcontracts/grants	
						LTTA - MTA	
		lop EIS Technical Infrastructure				ı	
	2.6	Develop prototype digital map data geo-referencing standards.	6/15/97	6/19/97	Geodetic datum parameters to be used for all data recording, as well as to establish projection parameters, false origin, measurement units, numbering conventions, and error characteristics of a unified national level geo- referencing system.	STTA - CU: (Eastman)	.25 PM
	2.7	Develop prototype digital map data production and distribution formats.	6/15/97	6/30/97	Unified prototype EIS data model standard including digital map metadata standards and map data accuracy standards. This will also include the specific digital map data storage and distribution formats.	STTA - CU: (Eastman)	.5 PM
	2.8	Develop a digital map data distribution medium and capability.	6/15/97	6/30/97	Import/export software modules between the EIS storage format and appropriate information technologies.	STTA - CU: (Eastman)	.5 PM
			6/15/97	6/30/97	Prototype standard for the distribution medium of digital map data.	STTA - CU: (Eastman)	.5 PM
	2.9	Strengthen existing the Environmental/Natural Resource Management (E/NRM) system for data archiving, distribution, and communication.	6/15/97	6/30/97	E/NRM database program for tracking existing and proposed programs.	STTA - (local)	.5 PM
			6/1/97	7/31/97	Inventory of existing data and projects in the Shire River catchment incorporated into E/NRM database.	NDC	2 PM
	Deve	op prototype Shire River Valley EIS					
	2.10	Provide technical support for the integration of data developed and	1/12/98	3/31/98	Functioning prototype Shire River Valley EIS covering	EIS TST STTA - CU: (<i>R</i> .	3 PM

			Tasks					
Life of Activity Results and Indicators	ID	Description	Start Date	End Date	Output	Level of Effort in Person Days / Months (PDs/PMs) and local subcontracts/grants		
		collected as a result of the Shire River Valley sedimentation investigation that can be used by decision makers.			Blantyre and Machinga ADDs.	Eastman) STTA - UA: (C. Hutchinson or WRI) LTTA - MTA		
			7/1/97	8/31/97	Technical support to assist with the incorporation of existing data including PLUS and FEWS data with BLADD and MADD into the prototype Shire River Valley EIS.	EIS TST 2 PM STTA - CU: (R. Eastman) LTTA - MTA		
			8/1/97	8/7/97	Technical Steering Team recommendations on modifications to the PLUS framework for decision making for use in addressing the causes of sedimentation in the Shire River.	STTA - UA: (C25 PM. Hutchinson or WRI) LTTA - MTA		
	2.11	Provide Technical Steering Team recommendations for establishment of Shire River Information System	3/1/98	3/14/98	Report with recommendations for implementing a Shire River Information System.	EIS TST .5 PM STTA - CU: (R. Eastman) STTA - UA: (C. Hutchinson or WRI) LTTA - MTA		
	Provide recommendations to establish future National Level Environmental Information System							
	2.12	Report to the Government of Malawi and the Technical Steering Committee.	2/1/98	3/31/98	Report with recommendations for implementing a national or sub-national level EIS.	EIS TST .5 PM STTA - CU: (R. Eastman) STTA - UA: (C. Hutchinson or WRI) LTTA - MTA		
	Comp	ponent Three: Public Lands Utilization	n Study (PLU	JS)				
	Unde	ertake a utilization study of publicl						
	3.1	Provide a set of spatially referenced maps and associated data for physical characterization at a national level (Level-1) and at a more detailed level for five selected public lands sites (Level-2).	8/1/97	8/31/97	Evaluation and selection of appropriate national level digital data for a GIS "Atlas",	LTTA - PLUSFC 1 PM LTTA - PLUS (Eiswerth)		

			Tasks				
Life of Activity Results and Indicators	ID	Description	Start Date	End Date	Output	Level of Effort in Pe Months (PDs/PMs) a subcontracts/grants	
			5/15/97	7/31/97	Collection, modification, and creation of additional digital data for five level-2 sites to enable further analysis,	LTTA - PLUSFC LTTA - PLUS (Eiswerth)	2.5 PM
			5/15/97	7/31/97	Methodologies to determine land suitability and potential soil loss using the five level-2 sites,	LTTA - PLUSFC LTTA - PLUS (Eiswerth)	2.5 PM
			5/15/97	7/31/97	Methodologies linking biophysical and socio- economic information of land uses by communities adjacent to public lands.	LTTA - PLUSFC LTTA - PLUS (Eiswerth) LTTA-BARA	2.5 PM
			8/1/97	8/31/97	Provision of digital and hard copy GIS "Atlas" with data layers and maps including associated tables and charts.	LTTA - PLUSFC LTTA - PLUS (Eiswerth)	1 PM
	3.2	Summarize results of field intensive study of land use and resource use patterns of communities adjacent to five selected protected areas. (Level-2)	8/1/97	8/31/97	Disaggregation of both qualitative and quantitative data by demographic factors, particularly gender, to determine differences in resource utilization and the impact of those differences at the household level.	LTTA - PLUSFC LTTA - PLUS (Eiswerth) LTTA-BARA	1 PM
			5/15/97	7/31/97	Assessment of resource use and impact as related to ecological parameters measured in vegetation measurement plots placed in areas identified during the participatory mapping.	LTTA - PLUSFC	2.5 PM
			5/15/97	7/31/97	Assessment of aggregate change in land cover through a change detection analysis derived from land cover maps created from 1984 and 1994 satellite imagery.	LTTA - PLUSFC LTTA - PLUS (Eiswerth)	2.5 PM

			Tasks				
Life of Activity Results and Indicators	ID	Description	Start Date	End Date	Output	Level of Effort in Per Months (PDs/PMs) ar subcontracts/grants	
			8/31/97	9/15/97	Final report linking analysis from Level-1 and Level-2, including the relationship of public land and resources to neighboring communities relative to the aggregate land cover change detected using the satellite imagery.	LTTA - PLUSFC LTTA - PLUS (Eiswerth) LTTA-BARA	.5 PM
	3.3	Enhance local capacity to conduct similar research on additional locations in future.	4/1/97	4/7/97	Produce all final field techniques and instruments as a team during the pilot study.	LTTA - PLUSFC	.25 PM
			4/1/97	4/7/97	Upon completion of PLUS, assist all team members in production of Curriculum Vitae and circulate these to relevant line agencies as well as the other land utilization studies.	LTTA - PLUSFC	.25 PM
	Enha	nce the utility of PLUS results through	n a framewo	rk for decisio	n making and associated capacit	y building	
	3.4	Provide assistance to the MoLV PPU in strengthening the institutional capability of the Lands Steering Committee as a foundation for the framework for decision making.	9/1/97	ongoing	Improved links with all Lands Steering Committee members (approximately 50 organizations interested in land matters),	LTTA - PLUSFC LTTA - EPA	
		· ·	9/1/97	ongoing	Improved communications and responsiveness from the PPU to developments which impact the Land Reform Program,	LTTA - PLUSFC LTTA - EPA	
	3.5	Insure broad availability and distribution of data, information products, and findings from PLUS activity.	9/1/97	9/14/97	PLUS report, digital and hard copy atlas, and associated data sets accessible through the multiple agencies.	LTTA - PLUSFC	.5 PM
			8/19/97	tentative	Technical presentation of the PLUS socio-economic data set (in SPSS) at a one-day seminar	LTTA - PLUSFC	2 PD
	3.6	Incorporate PLUS data and methodologies into the EIS to insure continued use and analysis of the	8/17/97	8/28/97	Incorporation of the PLUS data set into a two week ArcView- based geographic technology	LTTA - PLUSFC LTTA - PLUS (Eiswerth)	.5 PM

			Tasks				
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		data beyond the completion of the study.			training focusing on developing products related to the Mid-Shire River Valley for the EIS.		
			8/17/97	8/28/97	Expansion of the digital coverage of the LREP data and associated land suitability analysis utilizing the methodologies developed by PLUS, concentrated on the Mid-Shire River Valley.	LTTA - PLUSFC LTTA - PLUS (Eiswerth)	.5 PM
			8/17/97	8/28/97	Introduce the concepts behind the framework for decision making to the EIS.	LTTA - PLUSFC LTTA - PLUS (Eiswerth)	.5 PM
	3.7	Develop a "framework for decision making" to provide recommendations for the assessment of the future role of public land in the national land budget.	11/1/97	11/30/97	Recommendations on the technical assessment and economic analysis of biophysical and land utilization data at the national level in order to permit a reevaluation of the role of public lands.	LTTA - PLUSFC LTTA - EPA	1 PM
			11/1/97	11/30/97	Recommendations on the institutional and legal framework for the evaluation of technical recommendations on the future of public lands and for implementing change if and where required. The recommendations will include provision for representation at the local as well as national level.	LTTA - PLUSFC LTTA - EPA	1 PM
	Comp	ponent 4: Analysis and interpretation o	f NDVI data	sets	1	L	
	4.1	Assess the potential of using multi- date 3 Km AVHRR imagery	10/15/97	10/30/97	Report documenting correlation of 3 km imagery to secondary data sets.(BLADD and MADD)	STTA - CU: (N. Hahn & R. Eastman) LTTA - MTA: LTTA - ESA:	.5 PM

Life of Activity Results and Indicators	ID	Description	Start Date	End Date	Output	Level of Effort in Pers Months (PDs/PMs) an subcontracts/grants	
	4.2	Assess the value of time series analysis of 7.5 Km NDVI imagery	10/15/97	1/15/98	Report on the interpretation of analysis of Machinga ADD data sets to monitor vegetation change.	STTA - CU: (N. Hahn & R. Eastman) LTTA - MTA: LTTA - ESA:	
	4.3	Assess use of different resolutions of NDVI data for monitoring vegetation change in large watersheds with the Dept. of Forestry	10/15/97	11/30/97	Methodology for collecting, analyzing and reporting on vegetation change using NDVI data.	STTA - UA/CU: (N. Hahn & R. Eastman) LTTA - MTA: DoF (S. Kainja)	1.5 PM
	Comp	oonent Five. Pilot Area Sample Frame	in Machinga	ADD			
	5.1	Statistical analysis of data, review of results, and evaluation of ASF		12/31/97	A final report presenting both a quantitative and qualitative analysis of data generated and an evaluation of the ASF methodology, procedures, and applicability	STTA - AAIC: LTTA - MTA:	1 PM
	Pilot	Area Sample Frame Monitoring of Pro	ogram Impac	et			
	5.2	Link initial frame methodologies with sub-sampling techniques to evaluate impact of AF ./ SWC practices	8/1/97	8/15/97	Report showing the use of ASF to monitor land area under improved AF/SWC practices	STTA - AAIC: (WB) LTTA - MTA:	.5 PM
	Pilot	Area Sample Frame Forest Secondary	Sampling Su	ırvey			
	5.3	Oversee field testing the plot assessment strategy, verification of strata, and testing of photo delineation maps with the Dept. of Forestry	7/21/97	8/15/97	Field and photo interpretation guides written	LTTA - MTA: STTA - USFS:	.5 PM 1 PM
		•	10/1/97	10/15/97	Strategy for ground-truthing NDVI data for vegetation cover	STTA - USFS: STTA - UA/CU:	.5 PM .5 PM
	5.4	Assist the Dept of Forestry undertake woodland assessment in woodland strata of Machinga ADD	8/1/97	8/31/97	Results of assessment summarizing forest information by tenure class	LTTA - MTA:	1 PM
	5.5	Develop methods to collect soil erosion parameters for use in soil loss estimating models with the LR&CB	9/1/97	9/14/97	Report demonstrating use of ASF data in SLEMSA or USLE models for one watershed in Machinga ADD	LTTA - MTA: LTTA - ESA:	.5 PM .5 PM
	Pilot	Area Sample Frame Surface Water M	onitoring Ne	twork			

Life of Activity Results and Indicators	ID	Description	Start Date	End Date	Output	Level of Effort in Per Months (PDs/PMs) a subcontracts/grants	
	5.6	Develop surface water monitoring system for major drainages in the Machinga ADD to relate landuse change to water quantity and quality change with the Hydrology Dept.	9/1/97	9/30/97	Report relating ASF data for soil and water conservation practices to runoff information	LTTA - MTA: LTTA - ESA:	1 PM .5 PM
Sub-Programme II. Strengthen Environ							
	6.1	gthen GIS technical capacity Support in-service GIS training within the participating agencies and UNIMA	9/1/97	11/31/98	Two sequences of a three tiered fundamental GIS training courses will be conducted. The first sequence will be conducted with the UNIMA staff as trainees, the second sequence will utilize their talents as trainers.	STTA - CU:	6 PM
			9/1/96	11/31/98	Strategies to strengthen and broaden support for GIS activities and to ensure that the technology meets the needs of agencies.	STTA - CU:	2 PM
	6.2	Establish teaching curriculum in GIS coordinated across UNIMA system	5/1/97	11/31/98	Trained UNIMA staff will assist in the development of a GIS curriculum and the training of additional staff.	STTA - CU:	1 PM
	6.3	Develop applications research and environmental monitoring products	10/1/97	11/31/97	Specific GIS training, application development and analysis that focuses on delivering products for MEMP activities	STTA - CU:	8 PM
	Stren	gthen national environmental research		ng capacity			
	6.4	Support in-service environmental science training program within participating agencies.	11/1/97	12/31/97	A set of in-service programs developed for environmental science, including those in which environmental science is a significant sub-topic such as GIS and those that deal with a single significant topic that meets specific agency needs	STTA - CU:	2 PM

Life of Activity Results and Indicators	ID	Description	Start Date	End Date	Output	Level of Effort in E Months (PDs/PMs) subcontracts/grant	and local
					such as soil erosion monitoring		
	6.5	Establish teaching curriculum in environmental sciences Bunda, the Polytechnic and Chancellor	6/1/97	ongoing	An environment science curriculum developed	LTTA - ESA: STTA - CU:	2 PM 10 PD
	Supp	ort Research Grants Program	•			•	
	6.6	Research grant program for three colleges of UNIMA	4/1/97	ongoing	Awards made to university researchers to perform research tasks to meet agency needs. Detailed summary report submitted by the researcher and presented at a seminar to agency personnel.	LTTA - ESA:	3 PM
			4/1/98	ongoing	Research findings made available to decision-makers and planners through seminars	LTTA - ESA:	
	Provi	de training on environmental data an	alysis, interp	oretation, and	reporting		
	6.7	Enhance the capacity of line agencies in analyzing and interpreting environmental data	2/15/98	3/15/98	Workshop on field methodology, quality control, analysis, interpretation and reporting aspects of environmental monitoring data offered using data collected from the MEMP catchments	LTTA - ESA:	1 PM
	Teacl	h specialized short courses	1	L		l	
	6.8	Specialized training on key environmental issues offered	6/1/97	6/30/97	Economics of soil and water resources management taught as part of graduate natural resource economics course	LTTA - ESA:	1 PM
	6.9	Specialized short course training offered to MEMP participating agencies' personnel or students applying for small grants research	11/1/97	11/31/97	Specific student or agency personnel training offered on selected environmental themes	LTTA - ESA:	1 PM
	Stren	gthen the research component of the M	MEMP smal	l watershed n	onitoring		
	6.10	Examine, analyze, interpret MEMP data and present results as research findings	6/1/97	ongoing	Reports or research findings for data collected by MEMP during 1994/95/96/97 prepared	LTTA - ESA: LTTA - MFC:	1.5 PM
			12/1/97	3/1/98	Environmental monitoring and	LTTA - ESA:	3 PM

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			Tasks			
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					research activities distinguished for 1997/98 and good quality data collected and analyzed by the ESA	LTTA - MFC:
			3/1/98	3/31/98	Reports and research findings used for training and seminars	LTTA - ESA: 1 PM
	Devel	op an environmental monitoring meth-	odology for la	arge watersh	eds	
	6.11	Study the impact of land use and vegetation cover changes on soil erosion, hydrology, and water quality of a watershed	8/1/97	10/1/97	Methodology for environmental monitoring of large catchments developed using satellite, NDVI and hydro-climate data	LTTA - ESA: 2 PM LTTA - MFC:
			10/1/97	11/31/97	Models calibrated and used for predicting future trends	LTTA - ESA: 1 PM LTTA - MFC:

	Tasks								
Life of Activity Results and Indicators	ID	Description	Start Date	End Date	Output	Level of Effort in Person Days / Months (PDs/PMs) and local subcontracts/grants Development Partners			
Sub-Programme III. Strengthen national									
		lish Comprehensive Policy, Legislative				ı			
	7.1	Assist with interpretation of National Environmental Policy and Environment Management Act (1996)	4/1/97	3/31/98	Technical guidance provided to sectoral agencies on implications of policies, laws and institutional roles.	LTTA - SEPA	1 PM		
	7.2	Support the EAD in the monitoring of sectoral policy and legal reforms to ensure compatibility with the National Environmental Policy and the Environment Management Act (1996)	4/1/97	ongoing	Guidance provided to the Environmental Affairs Department on issues arising in sectoral reform programs which may require interventions to ensure cross- sectoral coordination and compatibility with framework policies and legislation	LTTA - SEPA			
	Support agencies in revision of sectoral policies, legislation and institutional roles								
	7.3	Assist line agencies, USAID and other donors to identify and make operational a funding mechanism for the GOM action plan for policy, institutional and legal reform in the environment/natural resource management sectors.	4/1/97	5/15/97	Contingency funding mechanism for the action plan for policy, institutional and legal review and reform identified and developed	LTTA - SEPA	0.5 PM		
	7.4	Assist line agencies in implementing action plans	4/1/97	3/31/98	Implementation progress monitored and reported, both in terms of physical progress and quality of output	LTTA - SEPA	1 PM		
			4/1/97	3/31/98	Review of sectoral policies, legislation and institutions completed	LTTA - SEPA:	2 PM		
			4/1/97	ongoing	Revised sectoral policies and legislation prepared	LTTA - SEPA, STTA (watersheds; resource tenure), UNDP/UNEP	2 PM 3 PM 22 PM		
			4/1/97	ongoing	Institutional roles and responsibilities clarified	LTTA - SEPA:	1 PM		

	Tasks							
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	Inform policy makers on status of public lands (PLUS)							
	Refer to tasks 3.4 and 3.7 above							
	Improve donor and implementing partner coordination							
	7.5	Finalize the Environmental Support Programme using the Results Framework methodology.	4/1/97	10/31/97	Environmental policy advisor will provide technical advise to ESP formulation.	LTTA - SEPA 1 PM		
	7.6	Design and establish a monitoring and coordination mechanism within the Environmental Affairs Department.	4/1/97	10/31/97	Scope of Work for a new post within EAD dedicated to donor and implementing partner coordination drafted	LTTA - SEPA 0.5 PM		
	Improve effectiveness of enforcement in the forestry, fisheries and wildlife sectors							
	7.7	Assist Ministry of Natural Resources in preparation of an action plan for improving law enforcement	9/1/97	12/31/97	The environmental policy advisor will liaise with the Ministry of Natural Resources in the development of an action plan to overhaul the existing enforcement services.	LTTA - SEPA		
	Introduce performance based management procedures							
	7.8	Support line ministries and departments in formulation of E/NRM programs for consideration for PBBS support	4/1/97	9/30/97	Priority E/NRM programs proposed by four participating agencies	LTTA - SEPA 1.5 PM		
	7.9	Support MEP&D in evaluation of proposals and submission to Treasury; monitor and support approval process.	10/1/97	10/31/97	Program proposals submitted to Treasury	LTTA - SEPA 0.5 PM		
	Explore options for long-term financial sustainability of E/NRM programs and functions							
	7.10	Assist Endowment Trust Working Group to assess legal, financial, organizational dimensions of	4/1/97	9/30/97	Working Papers prepared on key technical dimensions	LTTA - SEPA STTA - UNDP		

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	Tasks					
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		establishing a national endowment for E/NRM activities	4/1/97	9/30/97	Working Group has defined practicality and steps for establishing endowment	LTTA- SEPA STTA - UNDP
	7.11	Assist Endowment Trust Working Group to prepare action plan for Environmental Endowment, if warranted	8/1/97	12/31/97	Action plan with clear steps and time lines established	LTTA - SEPA