



USAID
FROM THE AMERICAN PEOPLE

Participants' Sourcebook

LIFE-OF-PROJECT ENVIRONMENTAL COMPLIANCE AND
ENVIRONMENTALLY SOUND DESIGN AND MANAGEMENT

A Middle East Regional Training Workshop for USAID Staff

RABAT, MOROCCO ■ 10–14 MARCH 2014



25 February 2014

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Participants' Sourcebook: Life-of-Project Environmental Compliance and Environmentally Sound Design and Management

A Middle East Regional Workshop for USAID Staff and Implementing Partners

Rabat, Morocco
10-14 March 2014

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Acknowledgement:

Cover photo: An infrared image of the Anti-Atlas Mountains in Southern Morocco
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Life-of-Project Environmental Compliance and Environmentally Sound Design and Management

A Middle East Regional Training Workshop for USAID Staff

Rabat, Morocco ▪ 10-14 March 2014

Day/Time	Module	Objective/Content Summary	Presenter/Facilitator
Mon 10 March	MOTIVATION, CORE SKILLS, OVERVIEW OF USAID ENVIRONMENTAL COMPLIANCE PROCEDURES OVER LIFE-OF-PROJECT.		
8:30-9:00	Participant Registration & Welcome Coffee Service		
9:00-9:15	Welcome and Opening Statements		
9:15-10:00	Session 1: Workshop Objectives, Logistics and Participant Introductions	Articulate workshop plans, objectives, goals, and participants' introductions and expectations. Review the agenda and logistics.	
10:15-10:30	Break		
10:30-11:25	Session 2: Environmental Compliance for Environmentally Sound Design and Management (ESDM). <i>Part A: Presentation + participant examples</i>	Achieve a common understanding of "environment." Introduce USAID Environmental Procedures and summarize the legal basis of the procedures and the life-of-project requirements they establish. Understand the need to systematically address environmental considerations in design and implementation of development activities and their importance to achieving good development outcomes.	
11:25-11:45	Part B: "Environmental Considerations: Toward a Sustainable Future" <i>Video and discussion; participant examples from their own experience</i>		
11:45-12:30	Session 3: Introduction to Environmental Impact Assessment (EIA)	USAID's Environmental Procedures are as specific implementation of the general EIA process. Understanding USAID's procedures requires understanding the general EIA process. In this session we achieve a common, basic understanding of the EIA process and key	

Day/Time	Module	Objective/Content Summary	Presenter/Facilitator
		EIA concepts such as <i>baseline</i> , <i>impact</i> and <i>activity</i> . We also establish how the EIA process is a framework for achieving ESDM.	
12:30-13:30	Lunch		
13:30-14:15	Session 4: Core EIA Skills 1 <i>Presentation; focus on learning-by-example</i>	Learn essential classroom theory for baseline characterization, impact identification & mitigation design. Establish that because effective mitigation design must be highly responsive to site conditions, effective mitigation design requires baseline characterization and issues identification skills.	
14:15-14:30	Session 5: Practicing Core EIA Skills – Virtual Field Visits <i>Part A: Photo Tour</i>	Practice observation skills needed to characterize the baseline situation and identify impacts/issues of concern	
14:30-15:30	Session 5, cont'd <i>Part C: Group Work & Plenary Synthesis</i>	Synthesize field observations and prioritize impacts/issues of concern; discuss possible approaches for limiting adverse effects on the environment.	
15:30-15:45	Break		
15:45-17:00	Special Guest presentation	Mr. Mohammed Kahji, General Manager of USAID funded Green Farm projects in Ouali Dia and Azzemour project will give a presentation on the project activities. The program is greenhouse based farming, supporting farm to market integration, small holder associations, pesticide management education	

Tues 11 March		ENVIRONMENTAL COMPLIANCE DURING PROJECT IMPLEMENTATION	
8:30-9:00	Welcome Coffee Service with breakfast pastry, croissants, juices, coffee and tea		
9:00-9:10	Day 1 review & Day 2 prospectus		
9:10-10:00	Session 6: Reg. 216: USAID's Pre-Implementation EIA Process <i>Presentation</i>	Understand Reg. 216 as USAID's mandatory pre-obligation EIA process, and further understand that environmental mitigation and monitoring conditions established by this process become required elements of activity design and implementation. Become familiar with the entire Reg. 216 process.	
10:00-10:15	Break		

Day/Time	Module	Objective/Content Summary	Presenter/Facilitator
10:15-11:45	Session 7: Effective IEEs <i>Exercise orientation, group work & plenary synthesis</i>	Initial Environmental Examinations (IEEs) are USAID's version of the <i>preliminary assessment</i> and the most common type of Reg. 216 documentation. We learn the characteristics of effective IEEs by critiquing draft IEEs based on our virtual field visits.	
11:45-12:30	Session 8: Core EIA Skills 2: Environmental Monitoring & Environmental Mitigation and Monitoring Plans (EMMPs)	Monitoring is the essential complement to mitigation: its objective is to determine clearly and cost-effectively if mitigation is sufficient and effective. We will understand this objective, brief the two types of environmental monitoring indicators & achieve a common understanding of the principles of environmental monitoring design. EMMPs set out the mitigation and monitoring measures by which a project will respond and comply with IEE or EA conditions. We will understand the basic EMMP concept and formats.	
12:30-13:30	Lunch		
13:30-14:00	Session 8: cont'd <i>"Conditions to Actions" discussion/exercise</i>	Practice a key EMMP skill: Translating IEE conditions to specific mitigation actions	
14:00-15:00	Session 9: Indicators exercise <i>Small group exercise</i>	Build and apply indicator selection skills (a key constituent skill for EMMP development) in a scenario-based small-group exercise centered on the Visual Field Guides.	
15:00-15:15	Break		
15:15-15:45	Special Topic: Pesticide Risks, Safer Use & USAID's Pesticide Procedures	Brief the environmental, economic and human-health concerns attendant to Pesticide Use. Achieve a common understanding of the special environmental compliance requirements that apply to pesticide use & procurement, and of the key elements of safer pesticide use	
15:45-16:15	Session 10: Field-based EMMP Development Exercise: <i>Part A: Site & Exercise Briefing</i>	Over this extended session, we will work in small groups to develop EMMPs for project scenarios based on the field visits we will undertake at the beginning of Day 3.	
16:15-17:00	Session 10, cont'd <i>Part B: Group Preparation</i>	<i>Groups view briefing materials and initiate EMMP</i>	

Wed 12 March FIELD VISITS AND EMMP DEVELOPMENT

TBD	Welcome Coffee Service with breakfast pastry, croissants, juices, coffee and tea	
8:30-13:00	<p>Session 10, cont'd <i>Part C: Field Visits</i></p> <p>Technical areas:</p> <ol style="list-style-type: none"> 1. Ag: Greenhouse-based farming 2. Construction: WWTP 3. Health: Hospital Operations & Med Waste 	<p>Build and apply the core Environmental Analysis skills briefed in Day 1 and Day 2 via a field visit and follow-up group work to:</p> <ol style="list-style-type: none"> 1. Synthesize field observations; and 2. Identify possible mitigation measures for the top two or three issues/impacts of concern at each site or for a new project similar to the one visited
13:00-14:00	Lunch & Freshen up	
14:00-16:30	<p>Session 10, cont'd <i>Part D: EMMP & presentation development (Group work; groups take tea break at their leisure)</i></p>	<p><i>Groups work to complete their EMMPs & the presentations they will make at the beginning of Day 4</i></p>

Thurs 13 Mar WRAPPING UP CORE ENVIRONMENTAL COMPLIANCE & SPECIAL TOPICS

8:30-9:00	Welcome Coffee Service with breakfast pastry, croissants, juices, coffee and tea	
9:00-9:10	Day 3 review & Day 4 prospectus	.
9:10-10:10	<p>Session 10, cont'd <i>Part E: EMMP Presentations</i></p>	<p>Working groups present their EMMPs in approx. 15-minute presentations with feedback from facilitators</p>
10:10-10:30	<p>Session 11: IP Environmental Compliance Reporting <i>Presentation & Q&A</i></p>	<p>For A/CORs to fulfill their responsibilities, IPs must report on environmental compliance. Understand the basic necessary content of this reporting.</p>
10:30-10:45	Break	
10:45-11:30	<p>Session 12: Roles, Responsibilities & Resources</p>	<p>Review Environmental Compliance roles and responsibilities, with reference to ADS requirements. Introduce the key resources available to support environmental compliance and ESDM.</p>

11:30-12:30	Session 13: Environmental Compliance/ESDM Knowledge Game	Reinforce key “core session” content in a small-group competition
12:30-13:30	Lunch	
13:30-14:00	Session 14: “Parking lot” session	Address unresolved questions with reference to the issues and questions “parking lot” created over the course of the workshop.
14:00-17:00	Special Topic Bloc	All sessions in plenary
	<ul style="list-style-type: none"> • Sub-project Review 	Brief the subproject review concept and procedure and the Environmental Review Form (ERF). Outline the circumstances under which this process can be employed
	<ul style="list-style-type: none"> • Environmental Compliance Best Practice for “Tricky Activities” 	Understand why categorical exclusions often do not apply to activities like policy development, trade, SME support, and private sector credit support, as well as the principles that inform the conditions that should be applied to these types of activities
15:15-15:30	Break (approximate time)	
	<ul style="list-style-type: none"> • Planning and Monitoring Environmental Compliance in Non-Permissive Environments 	Explain how environmental planning and monitoring can be different in non-permissive environments (NPEs). Present options and tools for managing planning and monitoring needs in NPEs
	<ul style="list-style-type: none"> • Life-of-Project Environmental Compliance Milestones 	A brief discussion of Life-of-Project milestones from design thru procurement, implementation and evaluation
Fri 14 March BRINGING TRAINING TO REALITY		
8:30-9:00	Welcome Coffee Service with breakfast pastry, croissants, juices, coffee and tea	
9:00-9:10	Day 4 review & Day 5 prospectus	
9:10-9:40	Session 15: Bringing Training to Reality <i>Part A: State of Environmental Compliance in USAID Mission & Projects: Results of Environmental Procedures Best Practices Reviews (BPRs)</i>	The workshop has addressed environmental compliance as it <i>should</i> be. We know that in missions and projects, there are gaps and shortcomings. This session first takes stock of where we are and identifies measures that we can take individually, and missions and projects can take to better comply, and better attain ESDM

9:40-10:30	Session 15, cont'd <i>Part B:</i> <i>Focus sessions</i>	Informed by the preceding session, identify key messages to communicate to mission management/sector team leaders (USAID staff) and to project COPs to prioritize and strengthen LOP environmental compliance.
10:30-10:45	Break	
10:45-11:45	Session 15, cont'd <i>Part C: "Way Forward" plenary discussion & individual action plans</i>	Brief report-outs from the 2 focus sessions; develop an individual action plan for workshop follow-up to strengthen LOP environmental compliance in your team, or mission/operating unit. Volunteers share highlights of their individual action plan.
11:45-12:00	Session 16: Evaluations	
12:00-12:30	Certificates and Closing	
12:30-13:30	Lunch	

Acronyms

ADS	(USAID) Automated Directives System	GCC	Global Climate Change
AFR	USAID Bureau for Africa	GHG	Greenhouse gas
AFR/SD	USAID Bureau for Africa, Office of Sustainable Development	IEE	Initial Environmental Examination
AOR	Agreement Officer's Representative	IQC	Indefinite Quantity Contract
AOTR	Agreement Officer's Technical Representative (now superseded by AOR)	IRS	(Anti-malarial) Indoor Residual Spraying
Asia/ME	USAID Bureaus for Asia and the Middle East	ITN	Insecticide-Treated (bed) Net
BEO	Bureau Environmental Officer	IP	USAID Implementing Partner
BFS	USAID Bureau for Food Security	LOE	Level of Effort
BPR	Environmental Procedures Best Practices Review	LOP	Life-of-Project
CFR	Code of (US) Federal Regulations	M&E	Monitoring & Evaluation
COP	Chief-of-Party	M&M	(Environmental) Mitigation and Monitoring
COR	Contracting Officer's Representative	MCC	Millennium Challenge Corporation
COTR	Contracting Officer's Technical Representative (now superseded by COR)	ME	USAID Bureau for the Middle East
DCHA	USAID Bureau for Democracy, Conflict and Humanitarian Assistance	MEO	Mission Environmental Officer
DO	Development Objective	NGO	Non-Governmental Organization (see also PVO)
EA	Environmental Assessment; Eastern Africa	NRM	Natural Resources Management-
ECL	Environmental Compliance: Language for Solicitation and Awards (ADS 204 Help Document)	OIG	Office of the (USAID) Inspector General
ECSR	Environmental Compliance Status Report	OMEPA	USAID Office of Middle East Programs
EGSSAA	(USAID/AFR's) <i>Environmental Guidelines for Small-Scale Activities in Africa</i>	PEA	Programmatic Environmental Assessment
EIA	Environmental Impact Assessment	PEPFAR	President's Emergency Plan for AIDS Relief
EMMP	Environmental Mitigation & Monitoring Plan	PERSUAP	Pesticide Evaluation Report and Safer Use Action Plan
EMPR	Environmental Management Plan & Report	PMP	Performance Monitoring Plan
ENCAP	Environmentally Sound Design and Management Capacity-Building Support for Africa (GEMS predecessor program supporting Africa Region under the EPIQ II IQC.)	PMI	Presidential Malaria Initiative
ERF	Environmental Review Form	POC	Point of Contact
ERR	Environmental Review Report	ppb	parts per billion
ESDM	Environmentally Sound Design & Management	PVO	Private Voluntary Organization
FAA	(US) Foreign Assistance Act	RCE	Request for Categorical Exclusion
FO	Functional Objective (under the Foreign Assistance Programming Framework)	REA	Regional Environmental Advisor
FTF	Feed the Future (President's Feed the Future Global Health and Food Security Initiative)	RUP	Restricted Use Pesticide
		Reg. 216	22 CFR 216
		SO	Strategic Objective
		Title II	Title II of US Public Law 480 (Agricultural Trade Development and Assistance Act of 1954); "Food for Peace" program
		USAID	United States Agency for International Development
		USG	United States Government

Session 1.

Workshop Objectives, Participant Introductions & Expectations

Session Summary & Objectives

This session briefs the workshop and its agenda, introduces us to each other, and establishes expectations. Specific elements of the session are:

- Overview of Course Objectives, Approach, Agenda and Materials (Facilitators).
- Participant & Facilitator Introductions: Please be prepared to introduce yourself briefly in 30 seconds, noting professional background, institutional affiliation, and current responsibilities (All).
- Soliciting expectations and establishing a “learning agreement.”
- Logistical details (Course Organizers).
- Creating a “Parking Lot.”

Workshop Objectives, Structure, and Approach to Learning

This workshop will provide intensive training for USAID Staff and Partners in: (1) compliance with USAID’s environmental procedures over life-of-project, and (2) in the objectives of these procedures: environmentally sound design and management (ESDM) of USAID-funded activities.

Overall Goal. The overall goal of the workshop is to strengthen environmentally sound design and management of USAID-funded activities by assuring that participants have the *motivation, knowledge and skills necessary to* (1) achieve environmental compliance over life-of-project, and (2) otherwise integrate environmental considerations in activity design and management to improve overall project acceptance and sustainability.

Structure & Objectives. Towards this goal, the agenda has four main components, each corresponding to key workshop objectives.

Agenda component	Corresponding objectives: By the end of the workshop, we will be able to:
<p>1. Motivating LOP environmental compliance. USAID’s mandatory environmental procedures exist to assure environmentally sound design and management (ESDM) of development activities. The workshop begins by defining ESDM and establishing why ESDM must be a necessary and explicit objective for successful development.</p>	<ul style="list-style-type: none"> • Articulate the ESDM concept and common causes of failure to achieve ESDM. • Explain why ESDM must be a necessary and explicit objective for successful development. • Articulate key action principles for achieving ESDM
<p>2. Building Core EIA Concepts & Skills. USAID’s environmental procedures are a specific implementation of the general environmental impact assessment (EIA) process. An understanding of the basic EIA process greatly facilitates understanding USAID’s procedures, and basic proficiency in a set of core EIA skills is required for effective compliance over life-of-project.</p>	<ul style="list-style-type: none"> • Explain the relationship between ESDM and the EIA process. • Describe the key elements of the EIA process. • Demonstrate basic proficiency in the core EIA skills of identifying significant impacts/issue of concern and design of mitigation and monitoring.

<p>3. Mastering LOP Compliance Requirements. The workshop first surveys LOP environmental compliance requirements. These requirements—and the compliance process—can be divided into “upstream” and “downstream” elements.</p> <p>Upstream compliance consists primarily of the pre-implementation environmental review process defined by 22 CFR 216 (Reg. 216), which culminates in approved Reg. 216 documentation (RCEs, IEEs and EAs).</p> <p>Downstream compliance consists primarily of <i>implementing</i> the environmental management conditions specified in approved 22 CFR 216 documentation, and <i>reporting</i> on this implementation. The <i>environmental mitigation and monitoring plan (EMMP)</i> is the key instrument for systematic implementation of these conditions—and thus for achieving ESDM.</p> <p>The workshop covers both upstream and downstream compliance, but the weight of the practical exercises are on downstream compliance (EMMP development), as this is where the greatest gaps are.</p>	<ul style="list-style-type: none"> • Describe the basic elements of LOP compliance, and attendant roles and responsibilities. • Demonstrate basic familiarity with the pre-implementation environmental review process established by Reg. 216, • Understand the characteristics of effective initial environmental examinations (IEEs) and be able to assess the quality of IEEs. • Demonstrate basic proficiency in developing environmental mitigation and monitoring plans (EMMPs). • Articulate the environmental compliance reporting requirements attendant to EMMP implementation.
<p>4. Understanding Key “Special Topics” in Compliance. Focused “special topic” sessions address the environmental compliance and management aspects of selected current, complex and emerging issues in the USAID portfolio and operating environment.</p>	<ul style="list-style-type: none"> • Explain the key compliance issues involved in each special topic, and articulate recommended best practices.
<p>5. Improving Compliance Processes. Achieving LOP compliance and ESDM requires both that individual USAID staff & IPs understand their roles and responsibilities and master key skills <i>and</i> that internal mission and project processes support and “mainstream” environmental compliance.</p>	<ul style="list-style-type: none"> • Evaluate strengths and weaknesses of environmental compliance processes in our team/mission against those in the region as a whole. • Undertake or propose improvements to these processes following the workshop.

Component 1 leads the workshop; components 2 and 3 alternate over days 1 & 2, with EIA skills introduced followed by the compliance processes they support. Day 3 is devoted in the entirety to downstream compliance (objective 3). Day 4 is focused on improving compliance processes (component 5). Special topics are introduced on Day 2 after “core material” is complete.

Approach to Learning. The workshop is intended to be highly participatory and field-based:

- Skills and processes briefed in the presentations will be built and practiced in hands-on exercises conducted in small working groups.
- The key, integrative exercises in Core EIA skills and LOP compliance are built around virtual and actual field visits.
- *Even presentation-centered sessions are intended to be interactive.* Please ask questions and, as importantly, share and discuss your own experiences and perspectives relevant to the topic at hand.

Everyone’s active participation is encouraged and needed to make this workshop a success!

Learning Agreement

As part of this session, we will collectively review the following principles and add or modify them as necessary to establish a “learning agreement”—an agreement about how we will work and learn together.

General Principles to consider are that each of us should:¹

1. Participate actively.
2. Ask questions.
3. Respect different points of view.
4. Share many thoughts and ideas.
5. Build upon the ideas presented by others.
6. Join in problem-solving.
7. Make "I" statements.
8. Respect the time—everyone shows up on time, and facilitators commit to end the sessions as scheduled.
9. Silence our cell phones and blackberries.
10. Have fun!

Teamwork Principles. Working groups are where we will practice and apply the key skills and ideas of the workshop. Working groups provide the opportunity for detailed discussions, and for learning from experiences and views of fellow development professionals. Working groups are also emphasized because environmental compliance and environmentally sound design and management are intrinsically team efforts.

Successful working groups require effective teamwork. Here are teamwork principles to consider:

Twelve Essentials of Teamwork

VALUING DIVERSITY	COMFORTABLE ATMOSPHERE	ACTIVE PARTICIPATION OF ALL MEMBERS	SHARED GOALS AND OBJECTIVES
BALANCED APPROACH TO PROCESS AND CONTENT	WHAT EFFECTIVE TEAMS NEED		EFFECTIVE COMMUNICATION
SHARED LEADERSHIP			CONSTRUCTIVE CONFLICT MANAGEMENT
ACTION ACCOUNTABILITY RESPONSIBILITY	MUTUAL TRUST	CRITICAL ANALYSIS AND PROBLEM-SOLVING	A PREFERENCE FOR CONSENSUS

(Adapted from Rees, "How to lead work teams in facilitation skills")

■ _____

¹ adapted from Jawara Lumumba and John Petit, REDSO/WCA, 1995

Notes for Working Group Chairs

The chair can be a workshop trainer or participant.

The chair is neutral: she or he should not judge the ideas or contributions of others, but try to focus the group's energy on the common task.

The chair should encourage participation by all working group members, but prevent any one member from dominating. The chair should assist the group to function creatively, energetically, democratically and productively.

The chair must ensure that the group's tasks are accomplished in the time allotted.

When appropriate, the chair should try to achieve agreement or consensus on the task at hand. However, consensus is not required and if the group is unable to reach consensus, areas of agreement and disagreement may be reported.

Notes for Rapporteurs

The rapporteur is responsible for accurately and succinctly recording and reporting the results of group discussions.

Specific responsibilities include:

- **On a flip chart or laptop**, capturing all key points related to the specific theme, and noting comments on cross-cutting themes, as appropriate.
- Make sure that notes and charts are legible, understandable, and after reporting out, turned in to a facilitator.

Session 2.

Environmental Compliance for Environmentally Sound Design and Management (ESDM).

Objectives

- Achieve a common understanding of "environment."
- Understand the basic compliance requirements established by USAID's environmental procedures over life of project, and the legal origin of these procedures.
- Understand by example the need for a formal, systematic pre-implementation environmental review process to prevent "environmental failures" in development activities.
- Understand Environmentally Sound Design & Management as a necessary and explicit objective for effective development.

Format

Presentation, solicitation of participant experiences, and short video.

Important note

Note that in this workshop, the term "USAID Environmental Procedures" does not refer only to 22 CFR 216 (Reg. 216), but collectively to Reg. 216, relevant Foreign Assistance Act requirements, and to the mandatory procedures and directives contained in the USAID's Automated Directive System (ADS), which establishes mandatory USAID operating procedures..

Summary

This session will:

- Develop a common understanding of the term "environment."
- Highlight some of the "big picture" environmental trends affecting human health and livelihoods in the Middle East, including Global Climate Change; and show that much of USAID's portfolio in the region is a direct response to—or directly affected by—these trends. In this sense, we all work in the "environment and development" area.
- Note that there is another dimension to the "environment and development" issue that is the primary concern of this workshop: the potential adverse effects of development activities *on the* environment.
- Establish that USAID has a formal, mandatory set of environmental procedures whose purpose is to identify potential adverse effects in advance of implementation, and mitigate them during design and implementation.
- Summarize these procedures, noting:
 - They are *required by both court settlement and US law* to utilize an EIA-based process to "fully take into account" environmental sustainability in designing and carrying out its development programs:

- They specify an Environmental Impact Assessment process that must be applied to all activities **before** implementation.
- The output of this process, defined by 22 CFR 216 (Reg. 216), is approved Reg. 216 documentation (Requests for Categorical Exclusion, Initial Environmental Examinations (IEEs), and Environmental Assessments (EAs)).
- Most IEEs and all EAs specify environmental management conditions (mitigative measures).
- These measures (“IEE/EA conditions”) must be implemented and monitored over the life of the activity (or life of project, LOP). Such implementation is the responsibility of the IP.
- C/AORs have are required to actively manage and monitor compliance with IEE/EA conditions. This requires that IPs *report* on their implementation of these conditions.
- By example, demonstrate that these formal, systematic procedures are needed because otherwise “environmental failures” in development activities are easy and too common.
- Establish that as development professional we must be AWARE of the potential adverse impacts of development activities on ecosystems, environmental resources and environmental quality; and the need to PROACTIVELY seek to limit these adverse impacts, particularly where they affect health and livelihoods—in short that environmentally sound design and management (ESDM) is a necessary and explicit objective for effective development, and that ESDM requires systematic and explicit attention over life-of-project.

Life-of-Project Environmental Compliance for Environmentally Sound Design and Management

Environment – the Big Picture

What is Environment?

Webster's defines it as "The **totality of circumstances** surrounding an organism or group of organisms, especially:

- The complex of **physical, chemical, and biotic factors** (e.g. climate, soil, and living things) that affect and influence the growth, development, and survival of an organism or an ecological community
- The complex of **social and cultural conditions** affecting the nature of an individual or community.

2

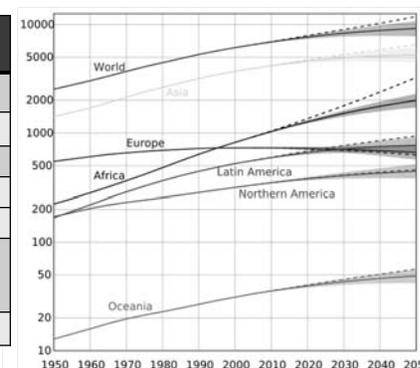
Question:

What are some "big-picture" environmental trends affecting human health and livelihoods in the Middle East?

Population growth

UN Population estimates:*

	Today	2050	% change
World	6.9bn	9.15bn	+32%
Africa	1.02 bn	2.19 bn	+114.7%
Asia	4.16bn	5.14bn	+23.6%
M. East	200 mn	372.9 mn	+86.3%
LAC**	590 mn	751 mn	+27.3%
Less-Developed Regions	5.7bn	7.9bn	+40%
LDCs	863mn	1.74bn	+102%



* All data: "medium variant" projection.
UN Population Division <http://esa.un.org/unpp>

**LAC: Latin America and the Caribbean

Increasing Population in developing areas

LEADS TO

Increased demands for water, land, fish & timber, energy, infrastructure & social services. Increased waste production.

3

4

Urbanization

UN Population estimates:*

	Urban pop as % of total		% change in total urban population
	Today	2050	
World	48.6%	69.6%	+89%
Africa	40.5%	56%	+198%
Asia	42.3 %	66.1%	+93%
M. East	79%	84%	+97.4%
LAC**	79.5%	86.3%	+38.2%
Less-Developed Regions	45.3%	67%	+107%
LDCs	29.4%	55.5%	+280%

* UN Population Division
<http://esa.un.org/unup/index.asp>

**LAC: Latin America and the Caribbean

Most urban growth in the next 25 years in developing countries

LEADS TO

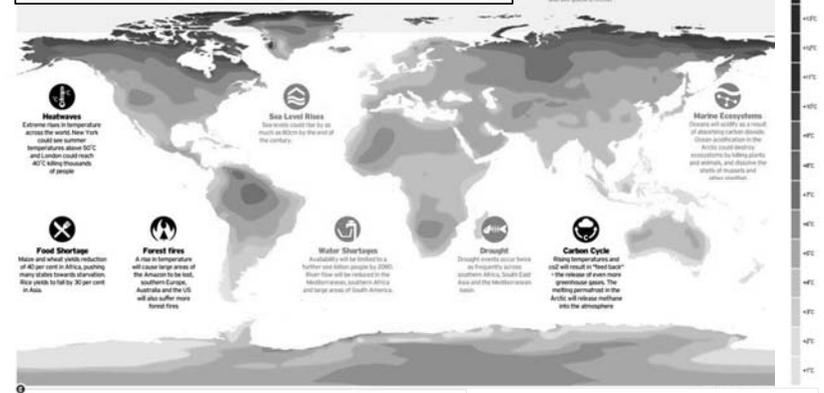
Increased urban environmental health hazards (given poor municipal sanitation, waste management capacity).



Urban population will grow more than 2X as fast as rural population for the foreseeable future

Global climate change

Projected end-of-century impacts of unconstrained GHG emissions → 4C average global temp rise and . . .



Temperature rise over pre-industrial climate baseline

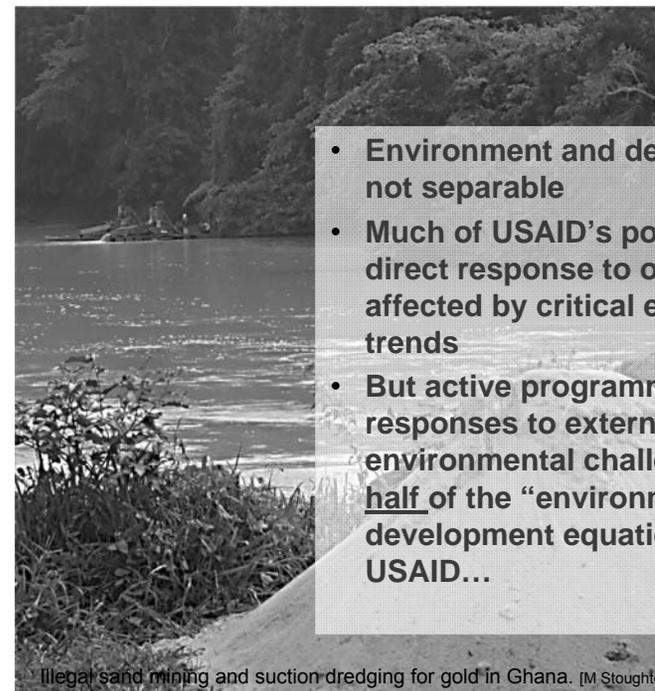
Question:

Relationship between Environment and Development



What examples can you give of development programs or projects that have been affected by the environment?

What examples can you give of where the environment has been affected by development programming?



- Environment and development are not separable
- Much of USAID's portfolio is a direct response to or directly affected by critical environmental trends
- But active programmatic responses to external environmental challenges are only half of the "environment and development equation" for USAID...

Illegal sand mining and suction dredging for gold in Ghana. [M Stoughton/2012]

The other half of the “environment and development equation” for USAID...and our focus.

USAID has mandatory life-of-project environmental procedures to limit adverse impacts of USAID development activities on ecosystems, environmental resources and environmental quality—particularly as they affect human health and livelihoods.



Fires to prepare land for planting in Southern Africa create a regional smoke plumes. Image: NASA

Origin & mandate of USAID’s environmental procedures

An “environmental failure”

1974

In 1974, USAID provided highly concentrated Malathion to poorly trained field workers on an agricultural project in Pakistan
Working without protective equipment in the heat, the workers sprayed each other.
5 died.

1 First a court mandate

Then a mandate in law:

2

§117 of the FAA requires that USAID:

utilize an Environmental Impact Assessment (EIA) process to:

“fully take into account the impacts of [its] programs and projects upon the environment and natural resources”

of host countries prior to implementation.

1975

Sued by US NGOs for non-compliance with NEPA, USAID settled out of court, agreeing to develop environmental safeguard procedures.

10

Where are the procedures found?

USAID’s Environmental Procedures are the response to these mandates. They consist of:

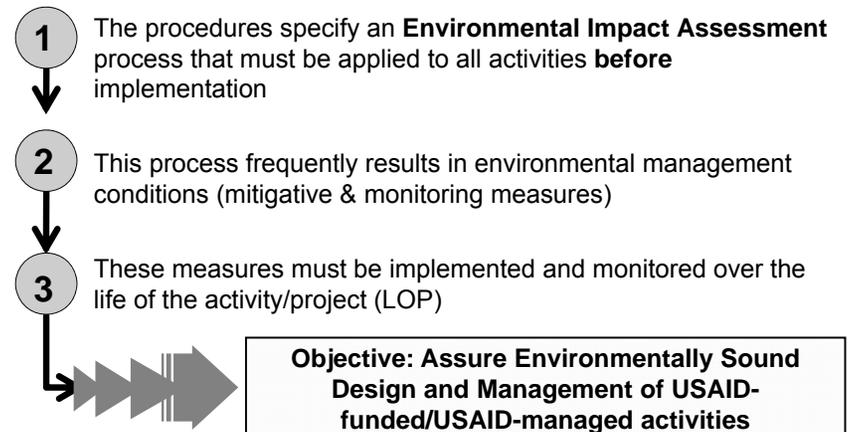
- **Federal regulations:** 22 CFR 216 (“Reg. 216”) and
- **Mandatory Agency Policies** as set out in USAID’s Automated Directives System (ADS), (especially—but not only—201.3.11, 202.3.6, 204 & 303)

Compliance with the procedures is mandatory. With limited exceptions for disaster assistance, they apply to every program, project, activity, and amendment supported with USAID funds.



11

What do the procedures require? (the big picture)



12

What do the procedures require? (a little more detail)

1. Environmental considerations must be taken into account in activity planning.
2. No activities implemented without **approved Reg. 216 environmental documentation.**
3. Any resulting environmental mitigation and monitoring conditions are:

- Written into award instruments
- Carried out by the implementing partner, and this implementation is monitored

The output of the EIA process specified by 22 CFR 216*

USAID monitors via field inspections and review of routine project reports submitted by IPs. To make this possible, project reporting by IPs must provide an auditable record of environmental compliance.

13

What do the procedures require? (cont'd)

4. Environmental compliance is assessed annually as part of formal Mission (operating unit) reporting.
5. Environmental compliance documentation is maintained by the Mission and each sector team

As part of the program or activity record and used to manage program implementation

In contrast to gender and general sustainability assessment, pre-implementation environmental review is required by law and regulation, not just Agency policy

14

Overview: Roles & Responsibilities

USAID

Assures Reg. 216 documentation in place

Establishes/approves environmental mitigation & monitoring conditions

Oversees compliance with these conditions, a core part of AOR/COR responsibilities

Implementing Partners

Implement environmental management conditions established in Reg. 216 documentation

Report on implementation to USAID

15

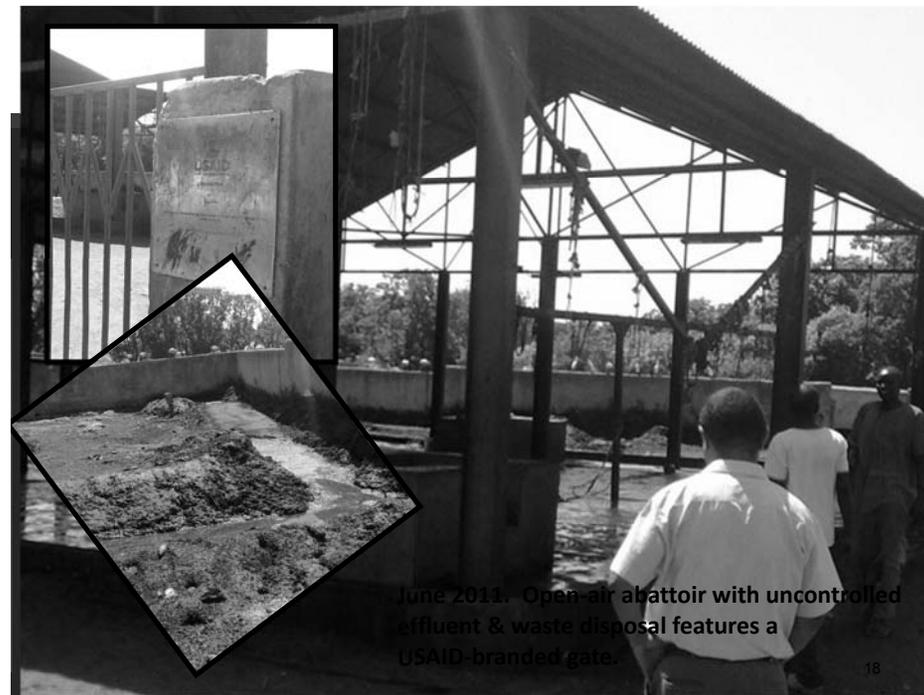
Why be so formal?

Don't we know enough about development that we will "get things right" without a formal environmental review/compliance process?

And why worry in the case of smaller-scale activities anyway?

16

Getting things right isn't so easy,
even when the issues are clear. . .



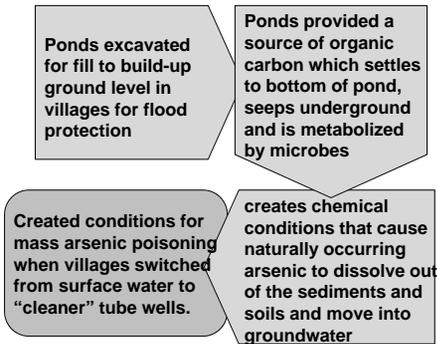
Getting things right is even harder when cause and effect are complicated



Today ~3000 Bangladeshis die each year of -induced cancer; 2 mn live with chronic poisoning

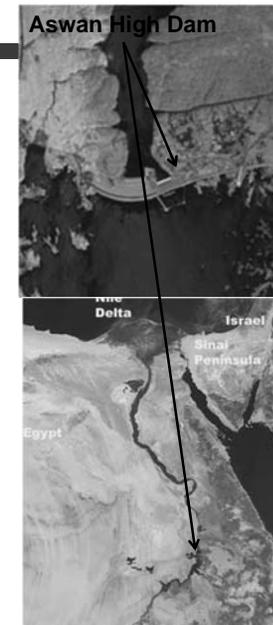
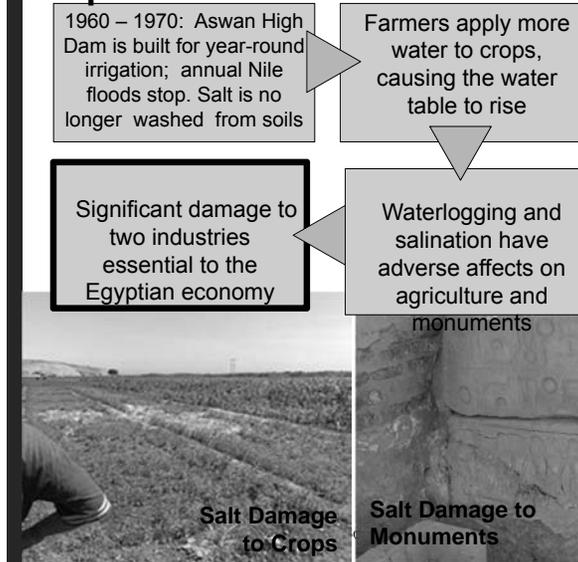


Photo: UNESCO-IHE



21

And in environment and development, things are often complicated . . .



Bottom line: in development, there are numerous pathways for environmental failure

- ! Failure to implement the most basic good housekeeping practices (first examples)
- Failure to understand system complexity (as we just saw)
- And many others, e.g.:
 - Designing for average conditions, not expected variability
 - Failure to plan for the effects of increased scale

23

Designing for average conditions, not expected variability



This schoolhouse is being **rebuilt** in makeshift fashion with plank walls & split-bamboo roof.

Why? Strong winds ripped the aluminum sheet roofing off the donor-funded "permanent" structure and toppled the landcrete walls.

In this area, one or two storms every 5 years typically have winds of this strength.

Other "average conditions" to be careful of: Rainfall, tides, water tables... **What else?**

Global change will affect both average conditions & expected variability

24

Failure to plan for the effects of increased scale



(Or, failure to plan for success!)

The environmental effects of a small-scale animal husbandry project may be minor

BUT if the project is successful, and many more individuals begin to hold larger numbers of animals, serious problems may arise. . .

Health hazards from animal waste. . .
Fodder shortages (may lead to overgrazing and erosion and/or land conflicts)

25

Finally, small-scale is not small impact!

- Myth: *"Environmental impacts of small-scale activities are negligible"*
- Reality: Impacts of a single poorly designed/implemented small-scale activity may be small in absolute terms
 - But local impacts to people and communities can be very significant
 - If small-scale activities are numerous, together they can have significant cumulative impacts



Potable water supply near hospital morgue



Total failure of latrines to contain pathogens

26

The bottom line: yes, we do need a formal, systematic environmental compliance process!



USAID's environmental procedures are a life-of-project process for

- Avoiding environmental failures
- Maximizing environmental benefits

In short, for achieving **environmentally sound design and management (ESDM)**

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Environmental Compliance Process Overview

Env considerations integrated in early project design

Pre-implementation EIA process (22 CFR 216)

Results in Reg 216 documentation

Request for Categorical Exclusion, Initial Environmental Examination (IEE), Environmental Assessment (EA)

must be approved by Mission Director, Bureau Environmental Officer

IP Compliance with IEE/EA conditions required by contracts, agreements

IP implements these conditions & remains within the scope of approved Reg 216 documentation

AOR/COR monitors compliance & modifies or ends activities NOT in compliance

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Session 3.

Fundamental Skills of Environmental Impact Assessment (EIA)

Summary

This session will define Environmental Impact Assessment (EIA) as a formal process for identifying the *likely effects* of activities/projects on the environment, and on human health and welfare; and the *means and measures to effectively mitigate* these impacts.

Fundamental skills of the EIA process will also be introduced and explained, including:

- 1) characterizing the **baseline situation**;
- 2) identifying (and evaluating) the potential adverse **impacts** of planned development activities (issues of concern); and
- 3) developing a **mitigation** strategy to address these impacts.

The session will further illustrate how the EIA process aligns with ESDM and establish that this process is the internationally accepted standard framework for achieving ESDM in project-based development. The linkage between EIA and USAID Environmental Procedures will also be established.

Discussion of Fundamental EIA Skills

This session addresses the essential EIA skills of baseline characterization, impact identification and mitigation design. (A fourth “core” skill—monitoring—is addressed in a subsequent session). These skills will be put to practice in the workshop’s field-based activities.

Baseline Characterization & Identifying Impacts of Concern

This portion of the session explains the basic, logical process behind baseline characterization and identifying impacts (or issues) of concern. An example from a real and typical small-scale irrigation project will illustrate why the fundamental EIA skills of baseline characterization and issue identification are directly relevant to effective mitigation and achieving ESDM.

Depending on the size, complexity and context of the activity, sophisticated environmental models and other tools *can* be required to evaluate impacts in the context of a comprehensive EIA study. But for most small-scale activities and preliminary assessments (or USAID-mandated IEEs), the simple, logical process described here—supported by good judgment and the information contained in the *Small Scale Guidelines* or similar resources—is sufficient.

Mitigation Design

The purpose of the EIA process is not simply to identify and assess potential environmental impacts, but to change project design and implementation so that these impacts are *mitigated*—that is, avoided, reduced or offset.

As such, mitigation is a critical part of ESDM and the EIA process. Monitoring (addressed in a subsequent session) is its essential complement, required to verify whether the mitigation measures are sufficient, effective—and actually implemented.

This portion of the session:

- Defines mitigation

- Provides examples of basic mitigation approaches
- Explains the principles behind good mitigation design and practice

Objectives

- Achieve a basic understanding of the EIA process and how it is implemented
- Become familiar with core EIA skills and the technical approach to EIA activities
- Promote the EIA framework as the internationally accepted standard process for achieving ESDM in project-based development
- Establish EIA as the basis of USAID Environmental Procedures

Key Resources

- “IV.1: Topic Briefing—Introduction to EIA” in the *Environmental Guidelines for Small Scale Activities*. (USAID/AFR/SD; available at www.encapafrika.org/egssaa.htm) is a general resource for core EIA skills.
- The individual sector chapters of the *Environmental Guidelines for Small-Scale Activities* are a key resource for: (1) identification of potential adverse environmental impacts; and (2) design of specific mitigation and monitoring measures.

Environmental Impact Assessment: A Framework for Environmentally Sound Design and Management

Why this session?

Isn't this workshop about USAID's Environmental Procedures, not EIA?



- USAID's environmental procedures are a specific implementation of the general Environmental Impact Assessment process
- Understanding this process makes USAID's procedures much easier to understand.
- Core EIA skills are required for effective compliance during USAID project design and implementation.

2

Environmental Impact Assessment

Environmental Impact Assessment is



A formal process for identifying:

- likely effects of activities or projects on the environment, and on human health and welfare.
- means and measures to mitigate & monitor these impacts

3

Environmental Impact Assessment: a universal requirement



- From its beginnings in the 1970 US National Environmental Policy Act. . .
- Most countries and almost all donors (**including USAID**) now have EIA requirements
- EIA now extends beyond government works to
 - *Infrastructure and economic development projects funded by the private sector & donors*
 - *Analysis of policies, not just projects*
- In many developing countries, EIA is the core of national environmental regulation

4

Key EIA concepts

- Defining “impact”
- Characterizing baseline conditions
- Defining “activity”

5

Key EIA concept: What is an impact?

The impact of an activity is the change from the **baseline situation** caused by the activity.

! To measure an impact, you must know what the baseline situation is.

The **baseline situation** is the existing environmental situation or condition in the absence of the activity.

The **baseline situation** is a key concept in EIA.

6

Characterizing the baseline situation. . .

The **environmental components** of interest are those:

- likely to be affected by your activity
- upon which your activity depends for its success

Water? *Quantity, quality, reliability, accessibility*

Soils? *Erosion, crop productivity, fallow periods, salinity, nutrient concentrations*

Fauna? *Populations, habitat*

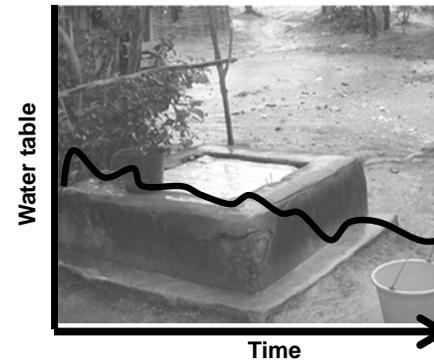
Env Health? *Disease vectors, pathogens*

Flora? *Composition and density of natural vegetation, productivity, key species*

Special ecosystems? *Key species*

7

Baseline situation: not just a “snapshot in time”



This chart of groundwater levels shows both **variability** and a **trend over time**.

BOTH are part of the groundwater baseline situation.

8

Types of impacts & their attributes

The EIA process is concerned with **all types of impacts** and may describe them in a number of ways

- Intensity
- Direction
- Spatial extent
- Duration
- Frequency
- Reversibility
- Probability

- Direct & indirect impacts
- Short-term & long-term impacts
- Adverse & beneficial impacts
- Cumulative impacts

But all impacts are NOT treated equally.

9

Focus!

! ESSENTIAL to focus on the most significant impacts

You definitely do not have time and resources to analyze and discuss in detail less important ones

10

What is an activity?

The EIA process examines the impacts of **activities**.

✓ An activity is:

A desired accomplishment or output

E.g.: a road, seedling production, or river diversion to irrigate land

A project or program may consist of many activities

Accomplishing an activity requires a set of **actions**

ACTIVITY:	ACTIONS:
market access road rehabilitation	Survey, grading, culvert construction, compaction, etc. . .

11

The EIA process

Phase I: Initial inquiries

- Understand proposed activities
- Screen
- Conduct preliminary assessment (if needed)

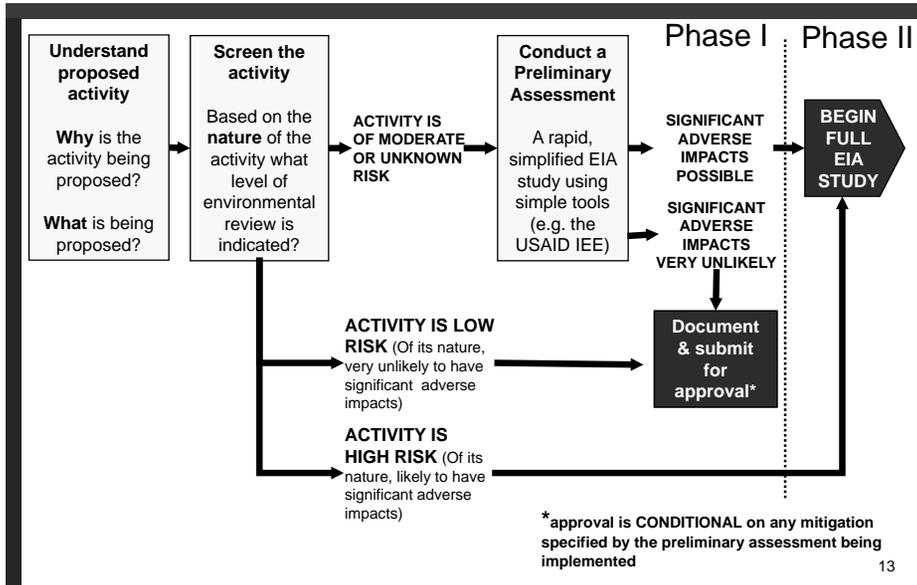
Phase II: Full EIA study (if needed)

- Scope
- Evaluate baseline situation
- Identify & choose alternatives
- Identify and characterize potential impacts of proposed activity and each alternative
- Develop mitigation and monitoring
- Communicate and document throughout

Most USAID activities do NOT proceed to a full EIA study

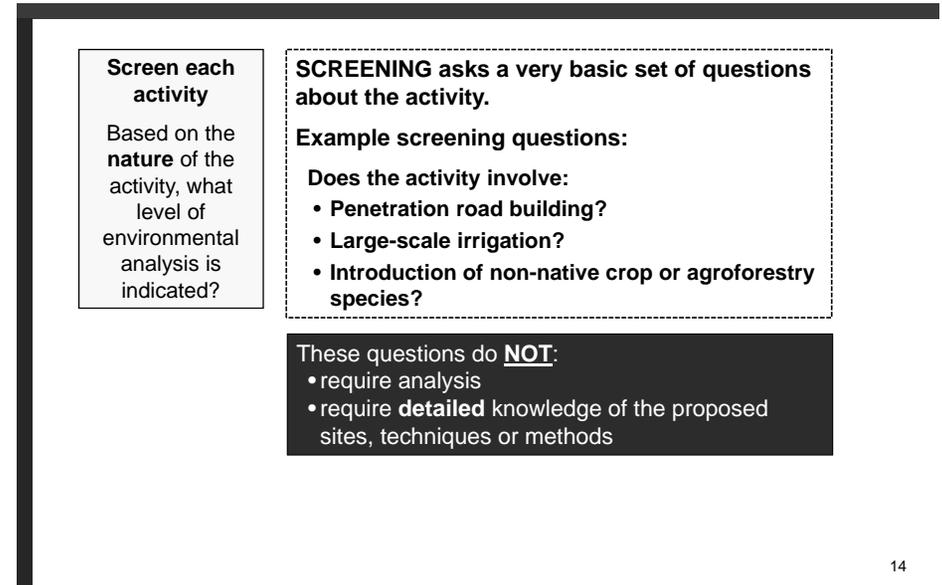
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Phase I of the EIA process



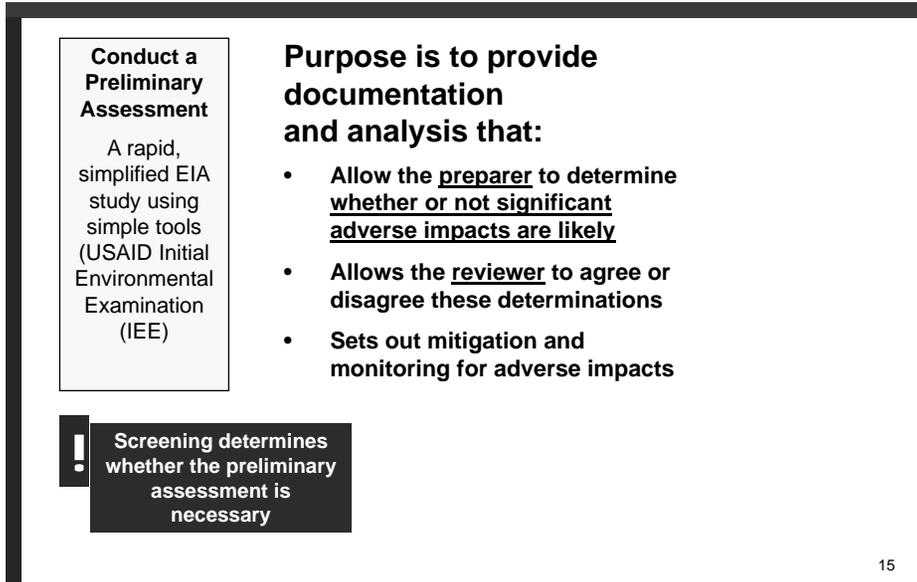
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Screen the activity



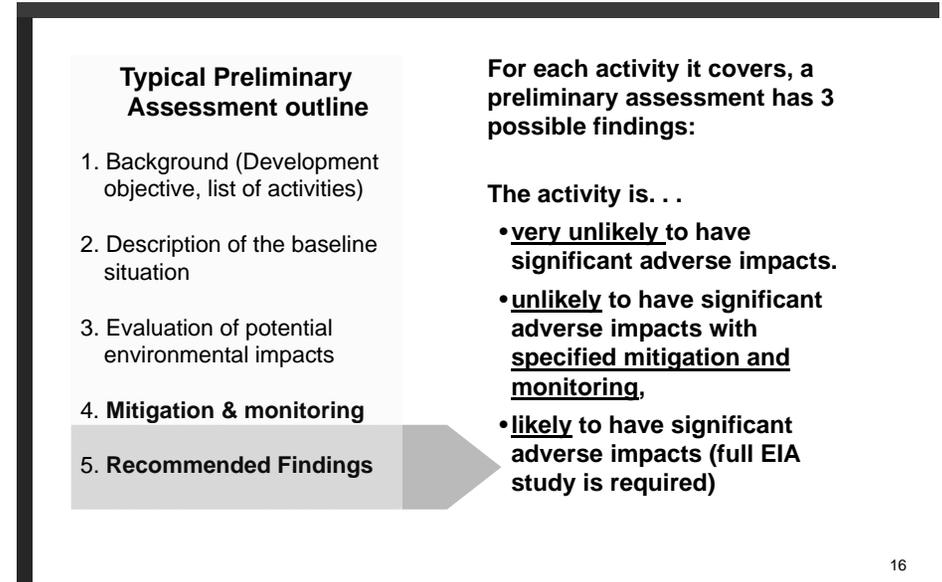
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The Preliminary Assessment (USAID's Initial Environmental Examination)



15

The Preliminary Assessment (IEE)



16

When to Proceed

! We only proceed to Phase II of the EIA process **IF** Phase I indicates that a FULL EIA STUDY is required

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Full EIA study (USAID's Environmental Assessment)

The full EIA study has very similar objectives and structure to a preliminary assessment.

However, the full EIA study differs in important ways:

**includes the project as proposed, the no-action alternative, and at least one other real alternative*

! A formal **scoping process** precedes the study to **identify issues to be addressed**

Analysis of environmental impacts is much **more detailed**

Alternatives* must be formally defined. The **impacts of each alternative must be identified & evaluated, and the results compared**

Public participation is required

A **professional EIA team** is usually required

18

3 rules for Environmentally Sound Design & Management (ESDM)



Properly done, the EIA process makes them a reality.

1 Be prevention-oriented

- Prevention occurs across the project lifecycle. but starts with DESIGN
- DESIGN starts with the **choice of method**
- Environmental impacts are 1 factor considered

Project objective:

Improve agricultural productivity

Possible methods

How do we choose?



20

EIA assures a “prevention orientation”

1

Be prevention-oriented

- Prevention begins with choice of **method**.
“Consider alternatives” is a key principle of EIA.
 - EIA forces formal consideration of environmental issues during project design.
- Early consideration is key to prevention—because that is when design changes can be made

21

2 Apply general best development practices. .

Using a *technically sound design...*

That is suited for the local social & policy context

Building beneficiary capacity & stakeholder commitment

Adjusting what we do as results come in

. . .to environmental aspects of the activity

AND design for climate change

22

Best Practice #1: Technically sound design

The design must be appropriate for local environmental conditions
....

... Rainfall, temperature, soils, flood, drought and earthquake potential. . .

For example. . .

?

Appropriate choice of crops or trees?



?

Appropriate choices of construction materials and methods?



23

Best Practice #2: Design for the policy & social context

Environmental applications:

Compliance

with national and local environmental laws and policies

Language, literacy

Environmental management measures must be matched to capabilities

Natural resource management and land tenure

Activities utilizing land and other natural resources must be compatible with local NRM and land tenure

land and resource rights are often gender-specific

24

Best Practice #3: Build commitment & capacity. . .

Environmental application:

Proper maintenance and operation are critical to controlling environmental impacts.



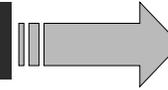
Who will maintain it?
Who will operate it?

Local beneficiaries need to be trained and committed to:

- environmentally sound operation
- maintaining the equipment/structure

. . . and involve the local community

Ethics require it
(environmental justice)



Local residents must live with the environmental impacts of activities!

LOCAL KNOWLEDGE is critical

- How often does the river flood?
- How often are crops rotated?
- Is there a land tenure problem?
- What do people value and need?



LISTEN to the community



TALK to both men and women

Best Practice #4: Practice Adaptive Management

“Adjust what we do as results come in”

Environmental dimension:
If our activity has unintended adverse environmental consequences, we need to **DO SOMETHING ABOUT IT!**

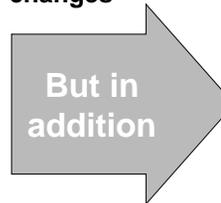
Requires:

- Funding for environmental monitoring in project budget
- Flexibility to adapt the project in response to unanticipated adverse impacts
- Adjusting implementation based on the experiences of others

Communities are often essential to monitoring results from the field

Best Practice #5: Design for Climate Change

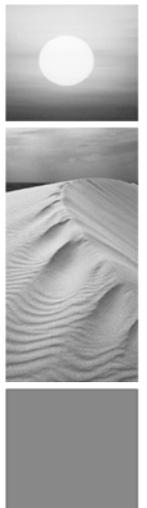
Already mentioned: future baseline conditions will change—design projects to be **ROBUST** to meet these changes



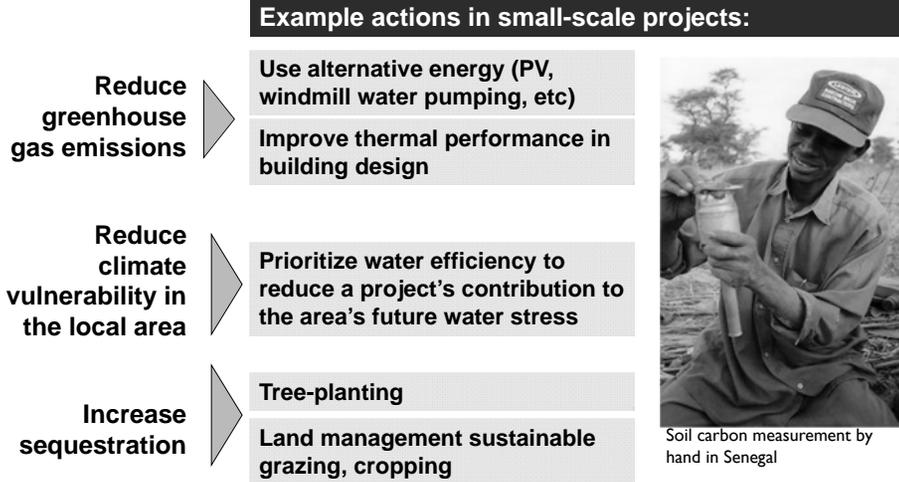
While individual projects are rarely significant contributors to global climate change. . .

. . . climate change is driven by the sum of many small actions.

So even small-scale projects should seek to reduce greenhouse gas emissions/ increase sequestration/ reduce climate vulnerability in the local area in a manner consistent with their development objectives.

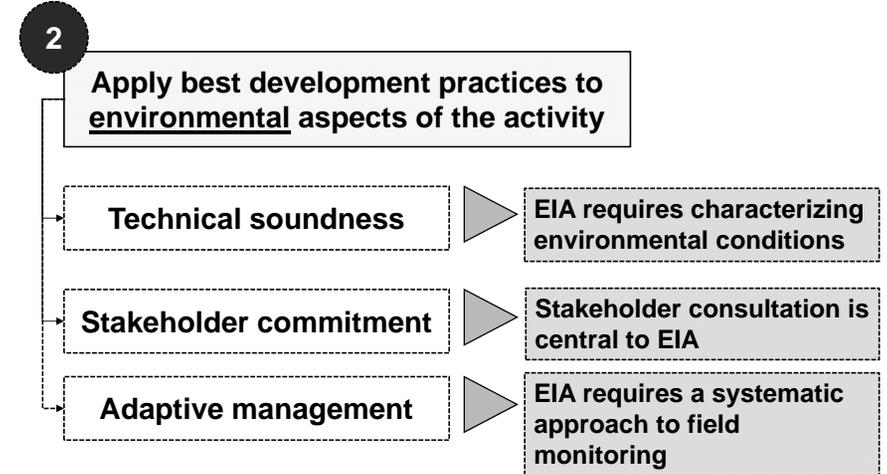


Best Practice #5: Design for Climate Change



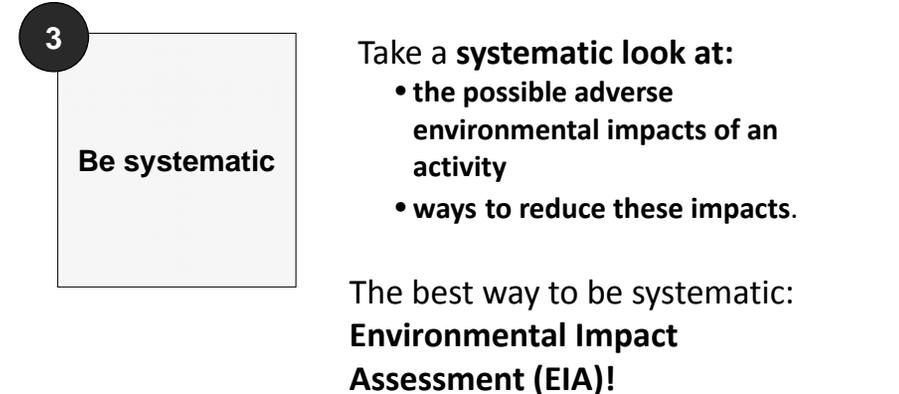
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How does EIA make "Rule 2" a reality?



30

Rule 3 for achieving ESDM. . .



31

EIA: Best practice – and the law!

EIA: the internationally accepted process to achieve Environmentally Sound Design and Management

- **Systematic process** to be **prevention oriented** & assure that **environmental aspects of development best practices are applied**

AND

EIA is:

- **REQUIRED BY LAW** in most countries
- **REQUIRED** by almost all donors

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Session 4.

Core EIA Skills I: Baseline Characterization, Identifying Issues of Concern & Mitigation

Objectives

Become familiar with the principles and processes that constitute the core EIA skills of baseline characterization, identifying issues and impacts of concern, and mitigation design.

Establish that because effective mitigation design must be highly responsive to site conditions, effective mitigation design requires baseline characterization and issues identification skills.

Format

Presentation and worked examples.

Summary

The EIA process requires the following core skills:

1. characterizing the **baseline situation**;
2. identifying (and evaluating) the potential adverse **impacts** of planned development activities (issues of concern); and
3. developing mitigation and (4) monitoring measures to address these impacts.

(“Baseline situation,” “impacts” and “mitigation and monitoring” were defined in Session 3.)

This session addresses core skills 1-3; the fourth (monitoring) is addressed in a subsequent session.

At first thought, characterizing the baseline situation and identifying issues of concern might seem relevant only to the pre-implementation EIA process—not to implementing the conditions that result from that review.

However, conditions specified in USAID IEEs and EAs are often very general. They require IPs to identify issues of concern particular to a site & respond with appropriate, specific mitigation measures. Thus effective mitigation requires a familiarity with all core EIA skills.

Part 1: Baseline Characterization & Determining Impacts of Concern

The first part of this session explains the basic, logical process behind baseline characterization and identifying issues of concern. We will illustrate the process with a worked example.

An example from a real and typical small-scale construction project will illustrate why the core EIA skills of baseline characterization and identifying issues of concern are directly relevant to effective mitigation.

Depending on the size, complexity and context of the activity, sophisticated environmental models and other tools *can* be required to evaluate impacts in the context of a full EIA study. But for most small-scale activities and preliminary assessments (IEEs), the simple, logical process described here, supported by good judgment and the information contained in the *Small Scale Guidelines* (or similar resources), is sufficient.

Part 2: Mitigation.

The purpose of the EIA process is not simply to assess potential environmental impacts, but to change project design and implementation so that these impacts are *mitigated*—that is, avoided, reduced or offset.

As such, mitigation is a critical part of ESDM and the EIA process. Monitoring (addressed in a subsequent session) is its essential complement, required to verify whether the mitigation measures are sufficient, effective—and actually implemented.

The second part of this session:

- Defines mitigation.
- Provides examples of basic mitigation approaches.
- Explains the principles behind good mitigation design and practice.

Key resources

The sector chapters of USAID’s *Environmental Guidelines for Small-Scale Activities* are a key resource for (1) identification of potential adverse environmental impacts and (2) design of mitigation and monitoring measures.

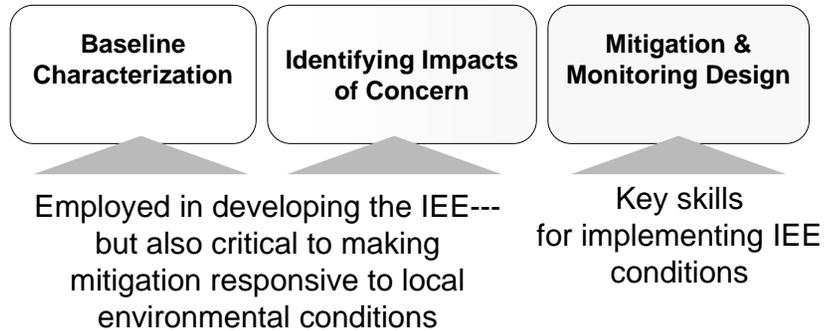
“IV.1: Topic Briefing—Introduction to EIA” in the *Environmental Guidelines for Small Scale Activities*. (USAID/AFR/SD; available at www.encapafrika.org/egssaa.htm) is a general resource for core EIA skills.

Core Environmental Impact Assessment Skills

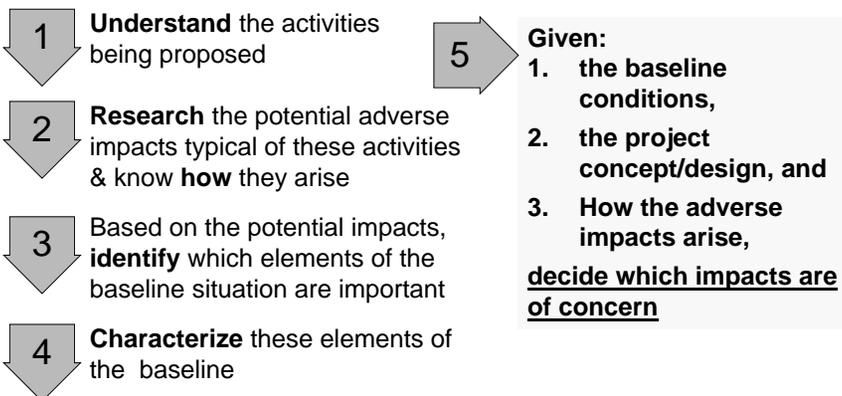
Part I:

- Characterizing the baseline situation
- Identifying environmental impacts
- Principles of environmental mitigation

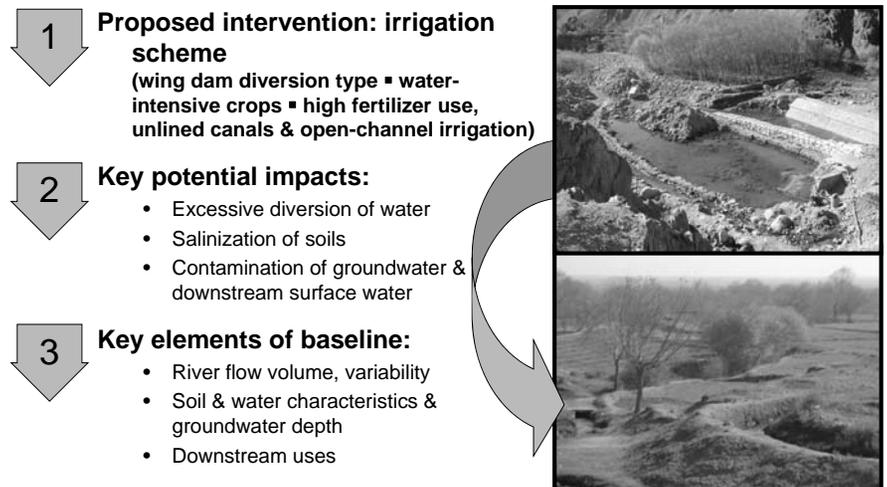
Core EIA Skills for Environmental Compliance



Impact evaluation process: THEORY



Impact evaluation process: EXAMPLE



Assessing impact: EXAMPLE

4

Baseline characterization

- *River flow volume, variability*
 - Will divert 3% of normal flow
 - low-year flows are 50% of normal
 - Downstream abstraction is <10% of total flow volume
- *Soil characteristics & groundwater depth*
 - Soils are well-drained but relatively high in salts; groundwater 2m depth
- *Downstream uses*
 - Key water source for community domestic use & livestock, immediately downstream

5

Therefore:

Impacts of Concern:
Salinization
Downstream contamination

Little Concern:
Excess
Diversion

Why these conclusions?

5

Question:

Why are these concepts relevant to me? I'm not developing Initial Environmental Examinations.



- IEE conditions often require Implementing Partners to identify issues of concern particular to a site and respond with appropriate, specific mitigation measures.
- C/AORs and M&E specialists must be able to evaluate if IP actions are appropriate

For example . . .

6

Medium scale construction. . .

ACTIVITY:
Development of institutional compound/ training facility
(perimeter wall, offices & classrooms, canteen, genset & fuel storage, latrine block, etc.)



Proposed site

IEE Conditions:

1. No construction permitted in protected areas or relatively undisturbed ecosystem areas.
2. Construction & facilities operation may not (a) result in significant adverse impacts on ecosystem services or (b) adversely affect the quality of surface or groundwater tapped for domestic use.

The baseline situation determines the relevance of these conditions & specific issues of concern mitigation must address

7

Inspection of baseline conditions at the site identifies issues of concern for mitigation. . .

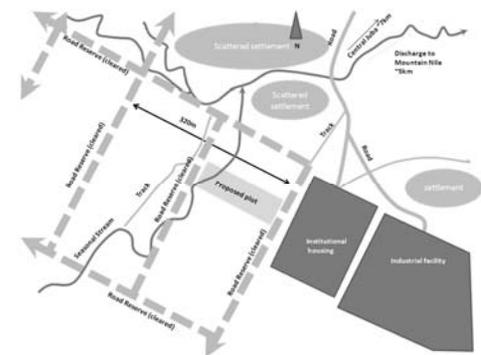
1: Site is in area already allocated for development--ecosystem integrity already disrupted.

2a: Key ecosystem service provided by the land is area drainage

Implication: design must assure no reduction in stream capacity & no alteration to local drainage patterns

2b. likely domestic use of surface water just downstream of the facility; potentially shallow groundwater also

Implication: must prevent additional siltation of stream, gray and brown water discharge, fuel leaks



8

Where do I obtain information about the baseline situation?

1. **YOUR ORGANIZATION**
TALK to staff who know the project, and know the sites.
OBTAIN project documents and information
2. **DIRECT OBSERVATION**
Go to the site(s)! Look up publicly available satellite imagery before you go
3. **UTILIZE OTHER LOCAL TALENT & KNOWLEDGE**
communities, government, counterparts

? Aren't we forgetting something?

What about reports by donor organizations and international agencies? What about government statistics? GIS databases?

All these sources can be useful (and sometimes necessary)

But good local information is the most important input

9

Why direct observation?



We need to **SEE**

- Are latrines close to water supplies?
- Is there a drainage problem?

Visual inspection is the quickest and best way to check issues of location, scale and proximity that determine many impacts.

We need to **LISTEN**

- Is there a land tenure problem?
 - How often does the river flood?
- Stakeholders and local communities have local knowledge that you need.*
- And, impacts depend on what those who are affected value and need!*



Talk to men **AND women.** Women's perceptions on environmental matters are critical and distinct.

10

What if I can't travel to the sites?



If at all possible, DON'T make the site characterization a desk exercise

But if you can't visit the sites/area, you need:

- **MAPS** and **PHOTOS** to help you visualize the environment
- to **TALK** to people who have been there

11

Mitigation and Monitoring

A critical part of the EIA process—and of environmentally sound design and management

Mitigation is . . .

The implementation of measures designed to eliminate, reduce or offset the undesirable effects of a proposed action on the environment.

Monitoring . . .

Environmental and activities measurements to tell you if your mitigation measures are:

1. Being implemented
2. Sufficient and effective

12

How does mitigation reduce adverse impacts?

Type of mitig measure	How it works	Examples
Prevention and control measures	Fully or partially prevent an impact/reduce a risk by: <ul style="list-style-type: none"> ▪ <i>Changing means or technique</i> ▪ <i>Changing or adding design elements</i> ▪ <i>Changing the site</i> ▪ <i>Specifying operating practices</i> 	PREVENT contamination of wells, by SITING wells a safe distance from pollution sources Add wastewater treatment system to the DESIGN of a coffee-washing station and train in proper OPERATIONS
Compensatory measures	Offset adverse impacts impacts in one area with improvements elsewhere	Plant trees in a new location to COMPENSATE for clearing a construction site
Remediation measures	Repair or restore the environment after damage is done	Re-grade and replant a borrow pit after construction is finished

... and sometimes you may need to redesign the project to modify or eliminate problem components

13

Siting & design features to PREVENT impacts

Water Supply (Well provision)

- **Potential impacts:**
Contamination of water supplies; spread of disease
- **Mitigations needed:**
Fence to keep out livestock

Site away from contamination sources

Provide separate water point for livestock

What is wrong with this intervention?



14

Proper treatment system OPERATIONS

Agricultural Processing (Coffee Washing)

- **Potential impacts:**
Contamination of water supplies; excessive water draw
- **Mitigations:**
Wash water recycling

Basic wastewater treatment (pictured)



Stream
(community water supply)

! Proper treatment system operation is essential

15

Must EVERY impact be mitigated?

Mitigation specified by the IEE/EA must be implemented

Often IEE conditions require judgment in designing specific mitigations. In this case, apply the following principle:

Potentially serious impacts/issues

These must **ALWAYS** be mitigated to the point that the impact is non-significant

Easily mitigated impacts

Then, there may be other impacts for which mitigation is easy and low-cost

Prioritize!

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Effective mitigation usually requires a MIX of mitigation techniques

Example: ROAD REHABILITATION

Some typical adverse impacts:

- Alteration of natural watershed drainage
- Erosion of road surface materials into habitats, productive agricultural land
- Roadside gully formation → damage to adjoining land
- Dust → respiratory problems, crop damage
- Inappropriate extraction of materials for road surfacing
- Increase in disease transmission (HIV)
- Increased non-sustainable logging, charcoal extraction



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Combining mitigation techniques: Road rehabilitation

Some typical good-practice mitigations

Avoid steep grades, Follow contours

Siting

Culverts or Rolling dips for water drainage and diversion

Side drainage to prevent flooding washout

Design elements

Slope stabilization via plantings, grading/terracing & riprap

Dust reduction barriers

Paving of vulnerable stretches

Community Maintenance

Operating Practice

Grading/planting/draining borrow pits

Remediation



Gullying can be serious!

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Prevention is best

Where possible, **PREVENT** impacts by changes to site or technique.

CONTROL of impacts with Operation & Maintenance (O&M) practices is more difficult to monitor, sustain

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How do I learn about potential impacts and mitigation measures?

KEY RESOURCE: USAID's Sectoral Environmental Guidelines



- Covers more than **20 typical development sectors**
- Each sectoral write-up identifies **potential impacts and discusses how they arise**
- Impacts are matched to **mitigation actions**.
- The **annotated bibliographies** provide URL links to **additional key resources**
- Other AFR, LAC, Asia Guidelines being consolidated into a "global version"
- See www.usaidgems.org.

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Summary

- **Environmental compliance (and achieving ESDM) requires “core EIA skills”**
 - Baseline characterization
 - Identifying impacts of concern
 - Mitigation design
 - Monitoring (coming up)
- **Effective mitigation design is site-specific. It requires a knowledge of the baseline situation**
- **Mitigate by prevention where you can**

Session 5.

Practicing Core EIA Skills: Virtual Field Visit

Objectives

Undertake a virtual field visit exercise to build and apply the core EIA skills briefed in Session 4.

Format:

Briefing/virtual site visit (photo presentation)

“Back at the office” working groups & brief report-out

Summary

The previous session presented the basic theory of baseline characterization, impact evaluation, mitigation, and monitoring. This part of the session practices these skills in a “virtual field visit.” By using sector guidance from the *Small-Scale Guidelines* as a key resource, the session also builds familiarity with the *Guidelines*.

Instructions

In this session, we undertake virtual field visits to practice the core EIA skills of baseline identification, identifying impacts of concern, and mitigation design.

We will visit activities (facilities) that have been in operation for some time. USAID-funded rehabilitation and expansion activities are planned in each case. Each activity presents certain environmental concerns as matters now stand—and, if nothing is done, these concerns (impacts) will grow if the activity is expanded.

In these visits, we play the roles of a mission sector team or an IP that will undertake the rehabilitation/expansion. We undertake the visits to improve our understanding of the implementation context and to allow us to better understand the environmental issues and mitigations that may be needed.

The project scenarios are described in the briefs on the following pages.

1. Before You Go Read the briefing relevant to your group. Utilizing the expertise in your group, identify the *potential impacts* of this type of activity.

2. On Your Virtual Field Visit:

- Note the aspects of the *baseline situation*
- Look for evidence that the *potential impacts* you have identified are *actual*—and if yes, how significant they may be.
- Look for evidence of the environmental management measures that may be in place, and their effectiveness
- Gather as much information from your “field” visit as possible to help evaluate impacts and design mitigation measures

3. Back In The Classroom As a group, review key potential impacts of the activities. Use the *Small Scale Guidelines* excerpt as a reference. Discuss primary mitigation/management approaches. Discuss the effects

of context on both the significance of impacts and appropriate mitigation approaches. Facilitators will serve as resources throughout the process.

Please be prepared to report out the results of your discussions.

*Note that this session is intended to practice basic observation, impact identification and mitigation design skills—not to practice development of Reg. 216 environmental documentation. Thus (for those who already know these terms), working group outputs are **not** expected to be in the form of an IEE outline or phrased in terms of “recommended determinations.”*

Group 1: Smallholder Irrigation Rehabilitation and Expansion

Your sector team or project is adding a major component to your **Smallholder Agricultural Productivity and Market Access Program (SAPMA)**.

SAPMA is a 5-year, \$50mn program to boost smallholder agricultural productivity with improved varieties and cultivation practices, and to support cooperative processing & marketing. The program is considered critical to food security and to enhancing economic opportunities (and thus to supporting political stability) in key rural provinces. SAPMA is now 2 years into implementation.

SAPMA was designed with the intent that improved varieties and practices would be applied to existing smallholder plots. However, implementation experience to date shows that lack of irrigation infrastructure is a key barrier to smallholder productivity in the target rural provinces.

An additional smallholder irrigation scheme component is therefore being added to SAPMA. In the current phase, time and funding is sufficient only for a single pilot activity; however in the next SAPMA phase, replication and full roll-out is anticipated, resulting in the development of 8–10 schemes.

The pilot will REHABILITATE and EXPAND the **Bagamoyo Irrigation Development Project (BIDP)** scheme, now about 20 years old. This is a 200 Ha smallholder irrigation scheme (open-canal type), which draws from the Ruvu, a small perennial River.

Rehabilitation will include minimal re-leveling of the existing site and repair of an intake/pumping structure, 300m primary canal, and necessary secondary canals and control gates.

The primary canal has sufficient capacity to support extension of the scheme on 50Ha of adjacent land, and the project will undertake this expansion, which will include leveling, and construction of secondary canals and control gates.

The access road and the cooperative's processing capacity will be upgraded under existing SAPMA components.

Beneficiary farmers will be members of an existing cooperative, as well as 3 extended families currently occupying the expansion land informally. (The project will construct replacement housing for these families; the cooperative has already secured their agreement to be relocated to a nearby village.) SAPMA will train farmers in cultivation techniques, including use of agricultural inputs, and provide technical extension services such as soil tests. In return farmers will "tithe" 10% "of production from their assigned plot(s) to the cooperative. Agricultural inputs and tillage will be provided on credit by the cooperative.

The pilot will also serve as a mentored capacity-building opportunity for the provincial irrigation development department of the agricultural ministry, who will participate in scheme development. Similarly, SAPMA will fund a supervising engineer whose duties will include mentoring and training the local contractors in good-practice irrigation construction techniques. This is intended to put in place local capacity that will result in accelerated, good-practice development of irrigation schemes in the province. SAPMA will operate the scheme for one year (two crop cycles are anticipated) then provide technical assistance to the cooperative and extension services to farmers for a second year

More about the Bagamoyo Irrigation Development Project.

The BIDP is real, though the SAPMA project and its plan to rehabilitate and expand the BIDP are not.

The BIDP is a cooperative union of 128 families. The project started in 1987–1990 with preparation, site clearing (the site was unforested grassland), surveying and preparation for 80 hectares of farm sites for training. Indigenous farmers who were cultivating rice along the Ruvu river were incorporated into the project. The project extracts irrigation water from the Ruvu river which also supplies water for household use and stocks in the area as well as being a source of fish.

By 1995, 100 farmers had been trained but had no land to cultivate. (The original 80ha of the project were for training only.) In response, the Tanzanian government started a pilot farming program with financial support from the Japanese government. 100 hectares of land were taken from the prison department, and 52 ha were allocated to 128 families each getting $\frac{1}{4}$ hectare. Support under the project was given to local farmers who would receive training in appropriate wheat and rice cultivation techniques; receive farming inputs and technical services such as soil tests and advice on appropriate fertilizers to use, in exchange for 5 bags of rice. Trainee farmers worked on an acre of land each during the training producing about 35 bags on average. The scheme produced 15 new graduate farmers each year and would allocate to them land for cultivation in the “pilot” section of the land.

From 1997 support from the Japanese stopped but farmers continued to receive support from the Tanzanian government until the year 2000 when the cooperative took over. Without the financial and technical support, and in the face of declining yields, increasing crop diseases, farmers started using more and more fertilizers (TSP, DAP and Urea) and insecticides (Thionex, Actellic and Fungise.) Production costs soared. To keep costs low, families use more of the family labor rather than hired help. Since 1991, 250 farmers have been trained. These are from neighboring villages—Kaole, Matimba and Bagamoyo town. Support from the cooperative is in the form of inputs and irrigation, all at a fee of Tsh 100 000 per family per season.

Individual input into the farming is for transplanting, weeding, and harvesting. Each family produces 36 bags of rice, on average, per season translating to an income of Tsh 900 000 on average. Typically, rural dwellers earn less than US \$10 a month, so these rice farmers are among the high earners in their communities. Training still continues for new farmers at a fee of Tsh 200 000.

(Information accurate as of 2008)

Group 2: District Hospital Expansion and Rehabilitation

Your sector team or project is adding a major activity to your **Maternal, Child & Rural Health Support Program” (MCRH)**. The purpose of the activity is to rehabilitate and expand a number of older district hospitals. Bagamoyo District Hospital will be one of these hospitals and is typical of the others.

MCRH is a 5-year, \$50mn program intended to better monitor, diagnose and treat HIV/AIDS, TB, Cholera and other infectious “epidemic diseases.” The program leverages the existing network of health posts and clinics which are supervised by and organized under the district hospitals. MCRH is 1 year into implementation.

(In XXX, district hospitals are key “anchors” of the public health system. In addition to providing treatment for more serious cases (and quarantine of potentially epidemic diseases), they serve as supervisory, data-collection, stocking and distribution centers for the clinics and health posts in their districts. District hospitals also provide prevention/education services via the out-district health posts under their direction.)

At the time that MCRH was designed, it was assumed that another donor would be supporting physical rehabilitation of the district hospitals in the MCRH target areas. In these areas, most district hospitals are 35-40 years old, and have undergone no significant expansion or rehabilitation since construction.

However, this expected complementary project did not materialize. Survey of existing facilities has determined that planned MCRH activities such as medical assistant training and equipment provision will fail to achieve the desired results unless hospital facilities themselves are significantly upgraded.

Therefore, a district hospital expansion/rehabilitation component is being added to MCRH. Five District hospitals in MCRH target areas will be chosen according to criteria developed in consultation with the Ministry of Health.

At each hospital, new ward blocks will be constructed and existing blocks rehabilitated. The expected result is a 50% increase in bed capacity at beneficiary hospitals (usually ~ 60 beds), with significant improvements to lighting, ventilation and hygiene over existing conditions.

The pilot will also serve as a mentored capacity-building opportunity for the medical facilities department of the health ministry, who will participate in planning, contracting and oversight. This is intended to build governmental capacity for health facilities upgrades throughout the country.

Bagamoyo District Hospital

The MCRH and its plan to rehabilitate and expand district hospitals is not real, but Bagamoyo District Hospital is.

Located ~2km from Bagamoyo town (coastal Tanzania) and ~200m from the ocean in a settled area, Bagamoyo District Hospital is a 125-bed facility opened in 1972. Initially providing health services largely to fisherman, it now serves tourists and the local community, as well as some patients who travel from Dar es Salaam. Baseline population growth and the development of tourism and other economic activities in Bagamoyo have substantially increased the population the hospital serves, currently estimated at about 300,000 households. The number of patients has grown 1000-fold; however, the hospital facilities have not been expanded.

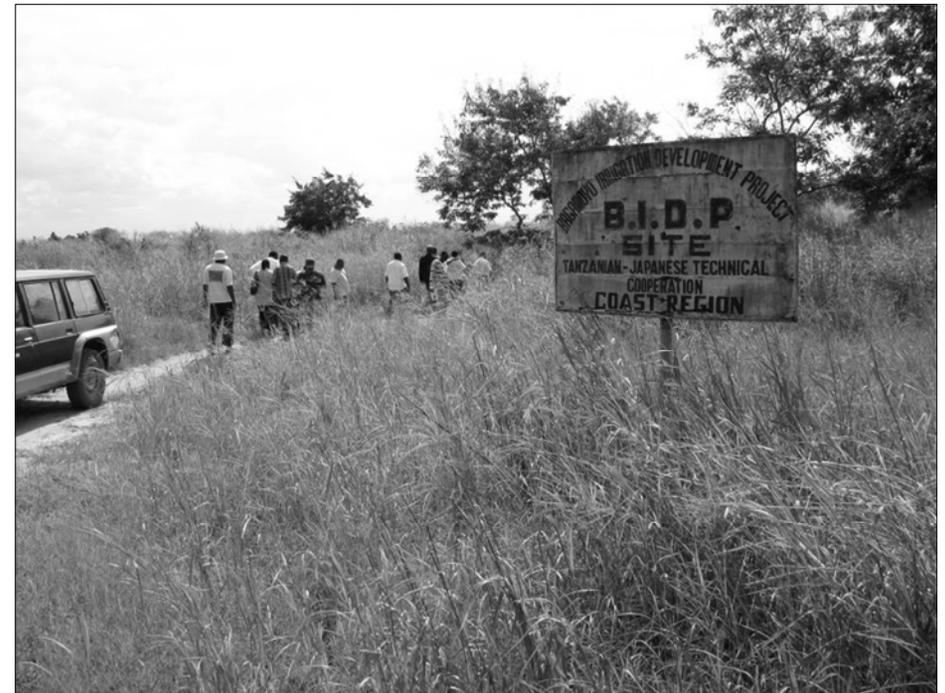
Facilities include dressing rooms, laboratories, maternity wards, general wards, pediatric wards and the mortuary. Canteen facilities are available for hospital staff and patients. The hospital has 3 doctors, 1 district medical officer and 4 Assistant medical staff. Patients report to the casualty rooms and have their medical complaints registered. Depending on the complaint, they are taken to appropriate unit.

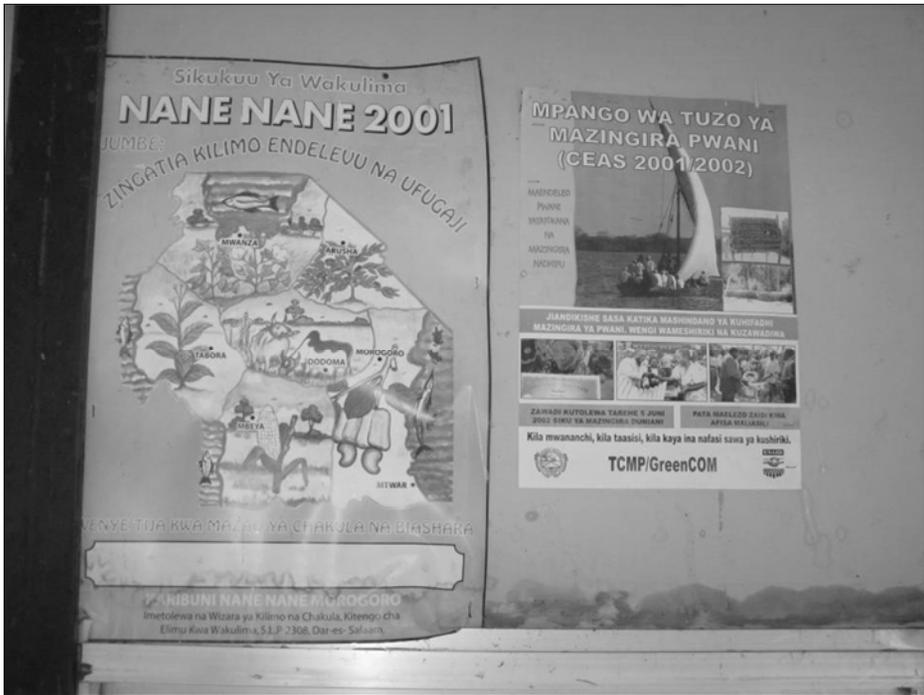
The most common serious diagnoses are Malaria, TB, and HIV/AIDS. The hospital generates significant volumes of medical and non-medical wastes. Facilities available to handle medical waste include special bins for sharps and “red bag” (potentially infectious) waste, and incinerators.

In Sept 2007, the incinerator was malfunctioning and unsecured. Children were observed playing 50m from the incinerator. Solid waste is removed to landfill twice/week. The hospital is not connected to a central sewerage system. A set of septic tanks on-grounds must be pumped out regularly. The hospital is 200 meters from the ocean and less than 100 meters from a school.

(Information accurate as of 2008)

Bagamoyo Irrigation Development Project (BIDP)

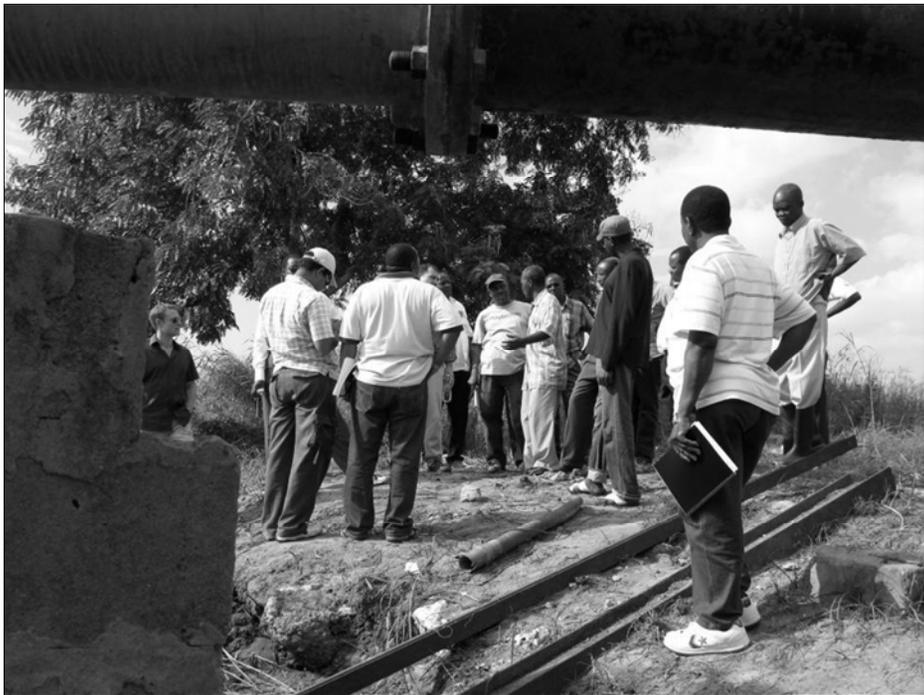
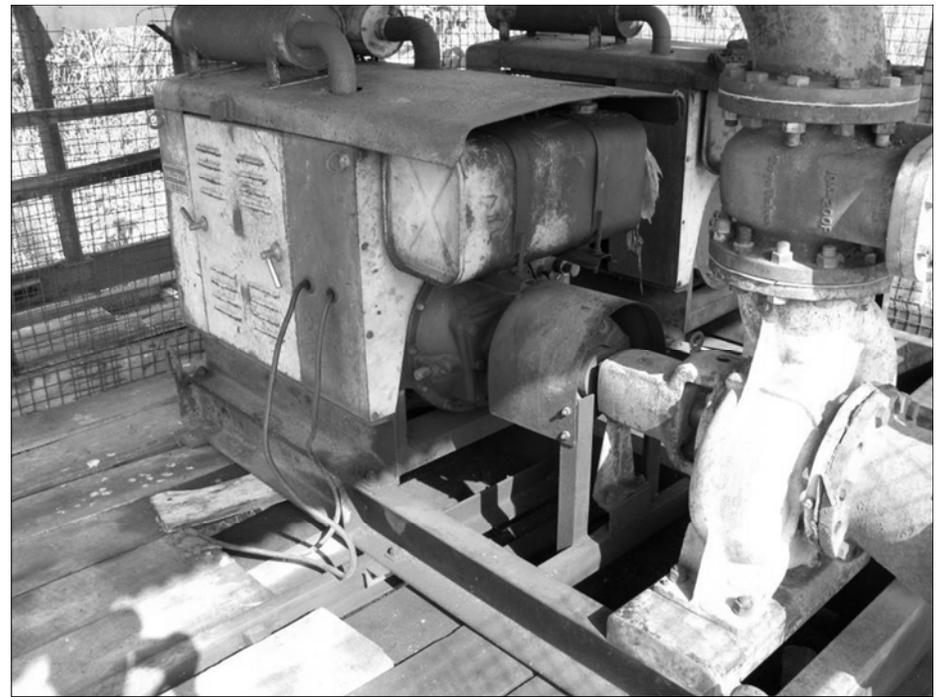








Irrigation intake
and pump



Ruvu River



Subsistence
fishing







Bagamoyo District Hospital



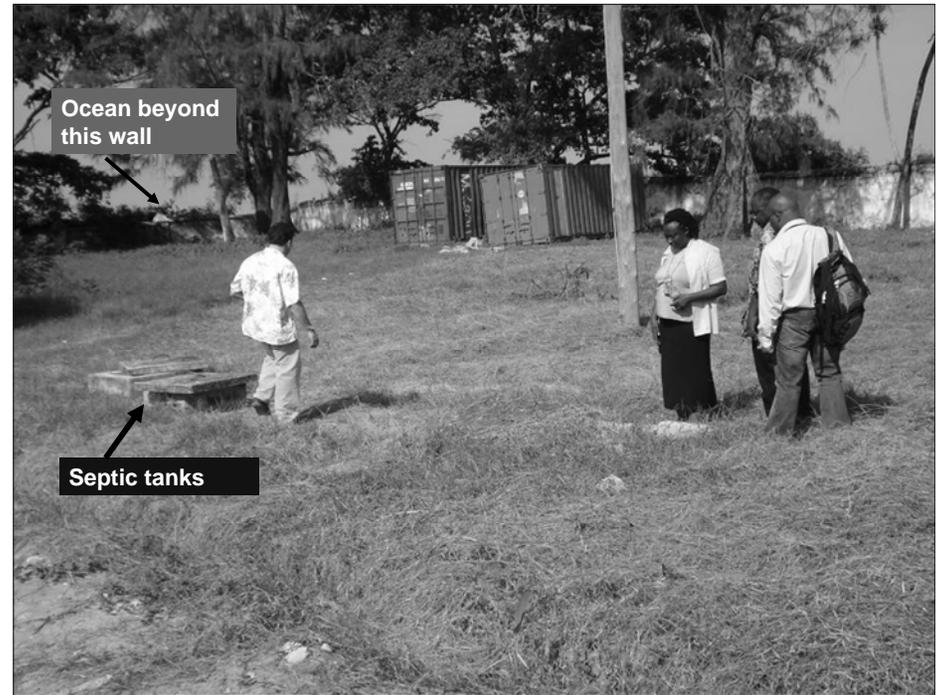




Access to the TB ward

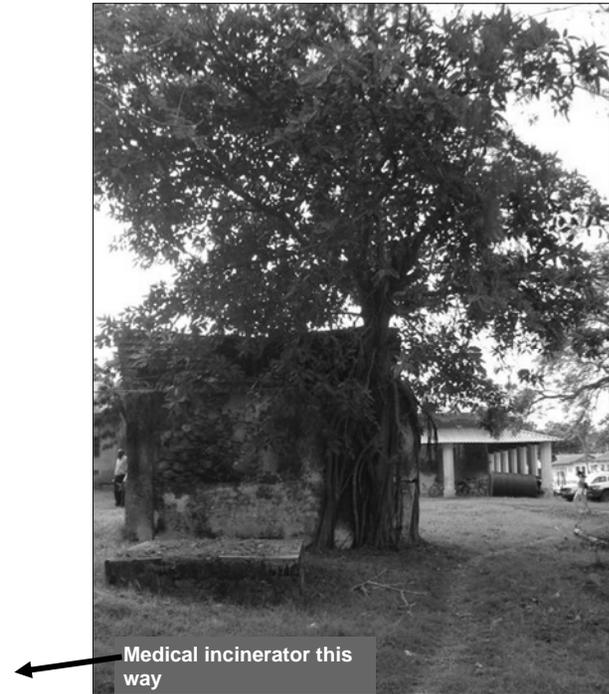
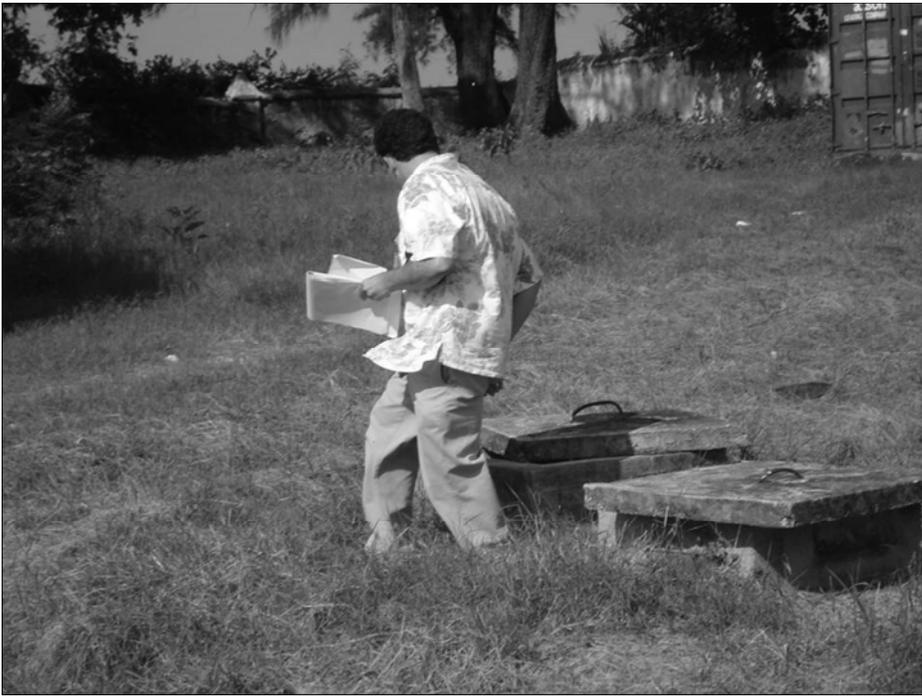


Pediatrics ward



Ocean beyond this wall

Septic tanks







New Kitchen

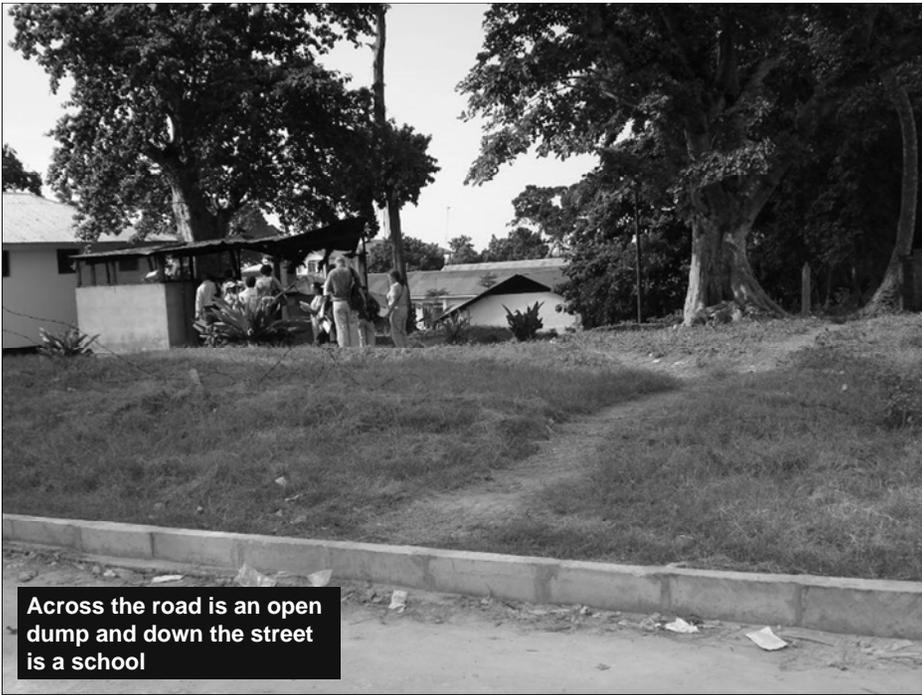


And a few feet away from the incinerator...



Alternative disposal options...





Session 6.

Reg. 216: USAID's Pre-Implementation EIA Process

Objectives

Understand Reg. 216 as USAID's mandatory pre-obligation EIA process, and further understand that environmental mitigation and monitoring conditions established by this process become required elements of activity design and implementation. Become familiar with the entire Reg. 216 process..

Format:

Presentation, Q&A and informal Quiz

Summary

Reg. 216 (22 CFR 216) is a US federal regulation that sets out USAID's mandatory pre-obligation/ pre-implementation EIA process. The Regulation applies to all USAID programs or activities, including non-project assistance *and* substantive amendments or extensions to ongoing activities.

The Reg. 216 process results in *Reg. 216 documentation* (a Request for Categorical Exclusion (RCE), an Initial Environmental Examination (IEE), an Environmental Assessment (EA)), that must be approved by the Mission Director and by the BEO. The IEE is USAID's version of a preliminary assessment. The EA is a full EIA study.

No "irreversible commitment of resources" can occur to implement an activity unless the activity is covered by appropriate, approved Reg. 216 documentation.

When IEEs are approved with mitigation and monitoring conditions attached to one or more activities, those conditions become a required part of project design/implementation. (EAs always have such conditions.) . Note that unless IEE and EA conditions are implemented, (1) the activity is out of compliance; (2) the Reg. 216 process is largely meaningless; and (3) the objective of the environmental procedures (ESDM) is not achieved.

For this reason, the ADS requires C/AORs to REMEDY or HALT activities where IEE/EA conditions are not being implemented, or which are otherwise out of compliance.

This session briefs Reg. 216 as a specific implementation of the EIA process, with particular attention to (1) the *screening process and criteria* established by the Regulation, and (2) the nature of the environmental documentation determined by this screening process.

Reg. 216 documentation is developed both by Mission staff, Partners and contractors, depending on the situation. Most IEEs that cover a sector portfolio in a mission (SO- or FO-level IEEs) are developed by Mission staff or 3rd-party contractors. (Note: such IEEs are being phased out or limited in some missions and in some regions (e.g. Asia and the Middle East).

Partners are often asked to develop Reg. 216 documentation for new project components. 3rd-party contractors are almost always engaged to undertake EAs.

22 CFR 216 (Reg. 216) USAID's Pre-implementation Environmental Impact Assessment Process

Session Objectives:

- Identify the pre-implementation environmental review process defined by 22 CFR 216
- Identify this process as a specific implementation of the general Environmental Impact Assessment process
- Practice deciding determinations for given USAID-funded activities

What is 22 CFR 216 (Reg. 216)?

- Sets out USAID's pre-implementation EIA process
- Applies to:
 - All USAID programs or activities, (including non-project assistance)
 - New activities
 - Substantive amendments or extensions to ongoing activities

! Reg. 216 (22 CFR 216) is a US Federal regulation – compliance is mandatory

Documentation & Approval

IMPORTANCE:

No activities may be implemented without APPROVED Reg. 216 environmental documentation in hand.

APPROVED = Mission Director (or Washington equivalent) & Bureau Environmental Officer (BEO) signatures

BEO concurrence *not* automatic or guaranteed

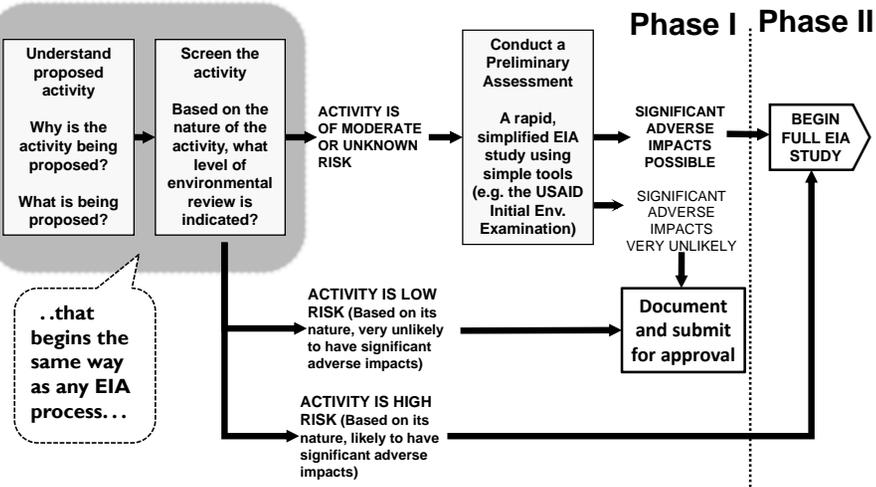
Dialogue is sometimes required

Who signs?

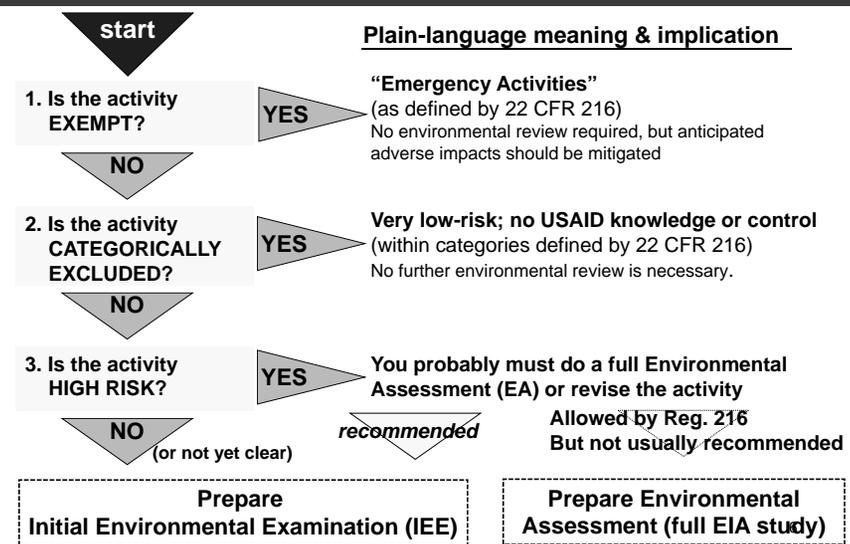
- Clearances:
- COR/AOR or Team leader
 - Mission Environmental Officer (for Missions)
 - Regional Environmental Advisor (depending on mission)
 - Mission Director or Washington equivalent*
- Concurrence
- Bureau Environmental Officer*
- Approval
- General Counsel (rarely)

*required by Reg 216

Reg. 216: specific USAID implementation of general EIA process. . .

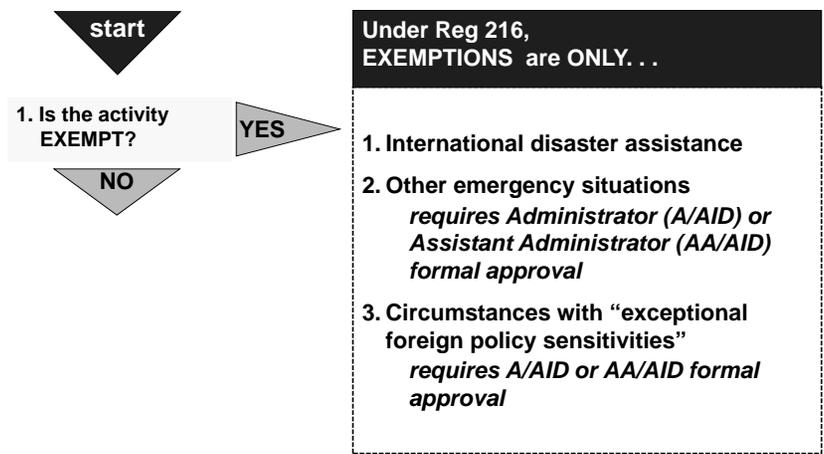


Screening under Reg. 216

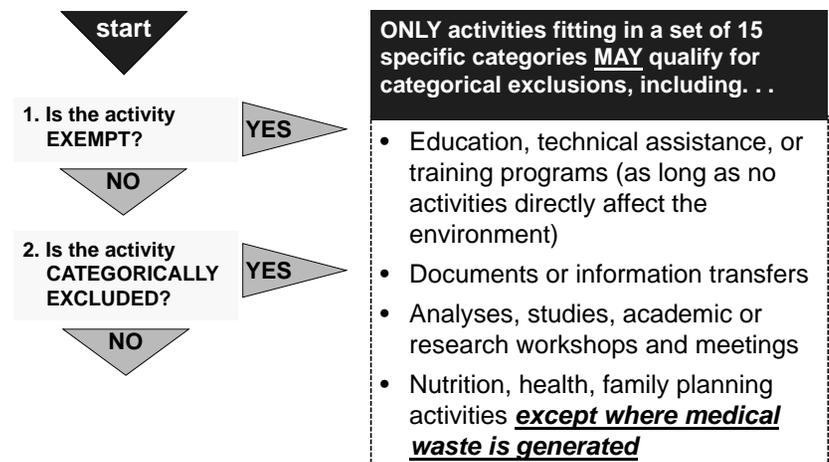


Screening under 22 CFR 216: Exemptions

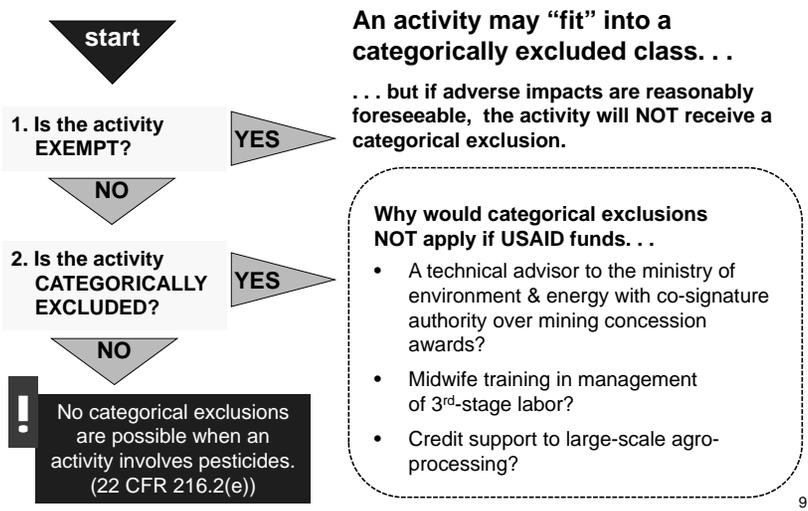
! "Exempt" activities often have significant adverse impacts. Mitigate these impacts where possible.



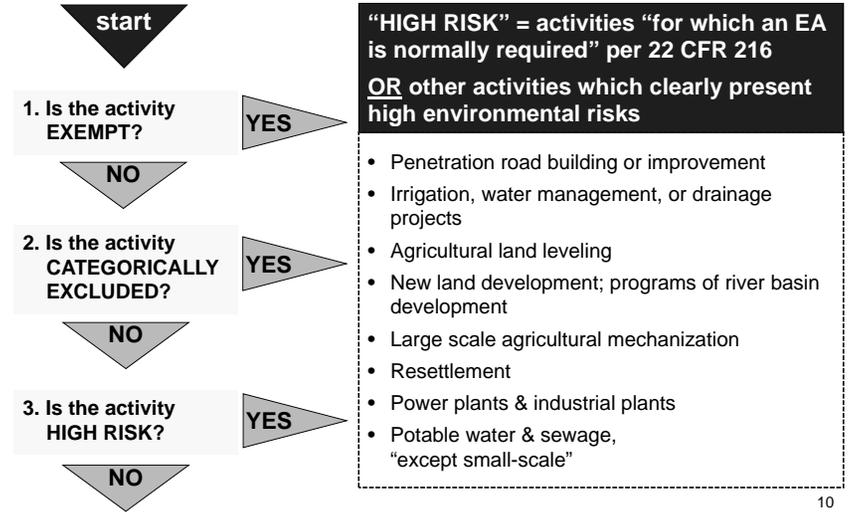
Screening under 22 CFR 216: Categorical Exclusions



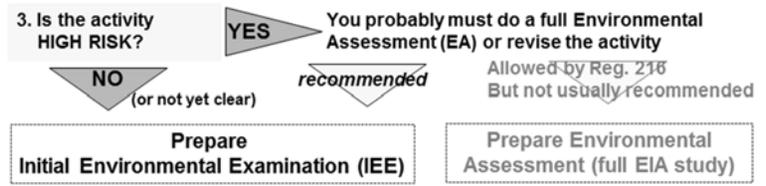
Categorical Exclusions: LIMITATIONS



“High Risk” (EA Likely Required)



What if my activity is “high risk”?



Can proceed directly to an EA (USAID’s full EIA study)

But unless the activity is VERY clearly “high risk”, do an IEE (USAID’s preliminary assessment) instead

WHY a preliminary assessment?

An IEE will:

- Allow you to determine if impacts can be easily controlled below a significant level—if so, an EA is not necessary
- Gather information needed to jump-start the EA process

What is clearly “high risk”?

EA DEFINITELY REQUIRED	NOT CLEAR—proceed to IEE
New 500Ha irrigation scheme	Rehabilitation of 50Ha irrigation scheme
Major expansion of a 100MW thermal power plant & construction of new transmission lines	Mini-hydro installations of 500 kw total
Widening 30km of a 2-lane road to 6-lane tollway thru an urban area	Rehabilitation of multiple short segments of rural feeder road
Sections 118 & 119 of the Foreign Assistance Act REQUIRE an EA for .	
Activities involving procurement or use of logging equipment	
Activities with the potential to significantly degrade national parks or similar protected areas or introduce exotic plants or animals into such areas	

Once each activity has been screened...

Activity*	Exempt	CatEx	IEE Req'd	EA Req'd
1. Small clinic rehabilitation			X	
2. Borehole Installations			X	
3. Training in patient record-keeping		X		
4. Construct provincial medical waste disposal facility				X

*Use a table like this. It helps.

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Develop your 22 CFR 216 documentation. . .

. . .as determined by the outcome of your screening process

Overall screening results	22 CFR 216 documentation required
All activities are exempt	Statement of Justification
All activities categorically excluded	Categorical Exclusion Request + FACESHEET
All activities require an IEE	IEE covering all activities + FACESHEET
Some activities are categorically excluded, some require an IEE	An IEE that: <ul style="list-style-type: none"> Covers activities for which an IEE is required AND Justifies the categorical exclusions + FACESHEET
High-risk activities	<ul style="list-style-type: none"> Initiate scoping and preparation of an EA



CATEGORICAL EXCLUSION REQUEST
Very simple; 1-2 pages. Describes the activities. Cites 22 CFR 216 to justify the catex.

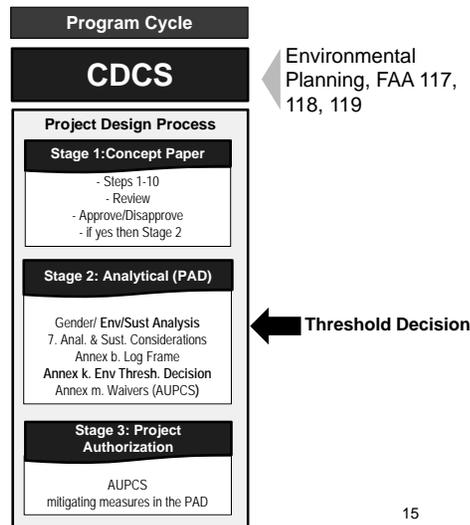


Initial Environmental Examination (USAID's preliminary assessment)

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Timing of 22 CFR 216 documentation. . .

USAID's project design process requires approved Reg. 216 documentation as annex to the Project Appraisal Document



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Initial Environmental Examination: What it looks like

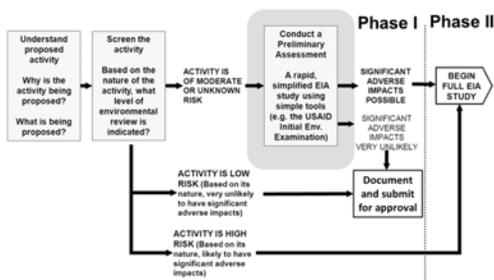
Basic IEE outline

- 1. Background & Activity Description**
 - Purpose & Scope of IEE
 - Background
 - Description of activities
- 2. Country & Environmental information**
 - Locations affected
 - National environmental policies and procedures
- 3. Evaluation of potential environmental impacts**
- 4. Recommended threshold decisions and mitigation actions**
 - Recommended threshold decisions and conditions
 - Mitigation, monitoring & evaluation

The IEE is very similar to preliminary assessments required by other donors and governments.

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Purpose of Initial Environmental Examination



Provides documentation and analysis that:

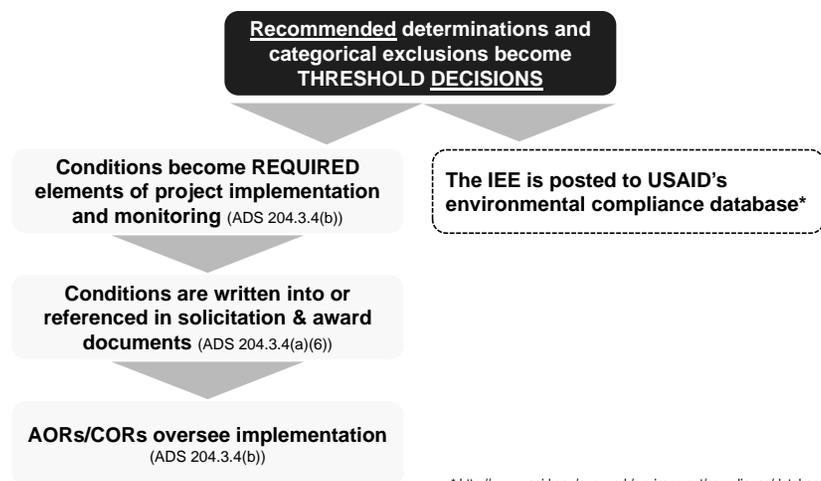
- Allows the preparer to determine whether or not significant adverse impacts are likely
- Allows the reviewer to agree or disagree with the preparer's determinations
- Sets out mitigation and monitoring for adverse impacts

What determinations result from an IEE?

For **each** activity addressed, the IEE makes one of 4 recommendations regarding its possible impacts:

If the IEE analysis finds...	The IEE recommends a...	Implications (if IEE is approved)
No significant adverse environmental impacts	NEGATIVE DETERMINATION	No conditions. Go ahead.
With specified mitigation and monitoring, no significant environmental impacts	NEGATIVE DETERMINATION WITH CONDITIONS	Specified mitigation and monitoring must be implemented
Significant adverse environmental impacts are possible	POSITIVE DETERMINATION	Do full EA or redesign activity. Conditions imposed by the EA must be implemented.
Not enough information to evaluate impacts	DEFERRAL	You cannot implement the activity until the IEE is amended
PLUS, the IEE will address any CATEGORICAL EXCLUSIONS carried over from the screening process.		

When the IEE is approved...



* http://www.usaid.gov/our_work/environmental/compliance/database

What if I need to do an Environmental Assessment*?

- First step: a formal scoping process (22 CFR 216.3(a)(4))
- Scoping statement must be approved by Mission Director, Bureau Environmental Officer
- Informs the SOW for the Environmental Assessment itself
- EAs are far more detailed than IEEs. They must address alternatives to the proposed activities. Public consultations are required.



"If a proposed action may affect the US environment or the global commons, an EIS is required, not an EA. (EIS = Environmental Impact Statement, per the US National Environmental Policy Act (NEPA)). This is RARE. (22 CFR 216.7.)"

And now: A QUIZ!!

What will the 22 CFR 216 threshold decision likely be?

- Categorical Exclusion?
- Negative Determination?
- Negative Determination w/ Conditions?
- Positive Determination?
- Exemption?

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Categorical Exclusion



Classroom instruction on education curriculum development

Negative Determination with Conditions



Market feeder road rehabilitation on Liberia

Negative Determination with Conditions, or

Positive Determination (EA)



Commercial Nursery



Negative Determination with Conditions

Promoting Cacao cultivation



Positive Determination (EA)

Forestry activity

Initial – Exemption

Long term – Positive Determination or Negative Determination with Conditions



Hurricane disaster response:
- Initial?
- Long term reconstruction?

Positive Determination or Negative Determination with Conditions
Pesticide Procedures



Pesticide use, Central America

Reg. 216 at the sector/Project Appraisal Document level



Reg. 216 written for the **project/activity level**

But many RCEs/IEEs written at the **Sector Portfolio** level

- To better consider environment in program design
- To satisfy the need for pre-obligation threshold decision
- AND NOW, program design guidance requires Reg. 216 documentation to be in place for the Project Appraisal Document (PAD). Each PAD covers multiple procurement actions.

RISKS:

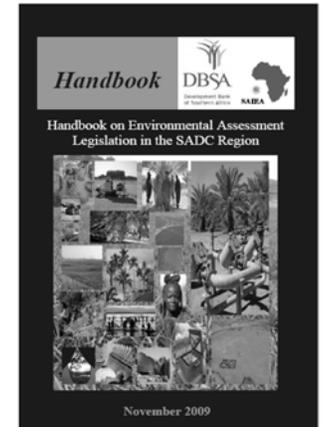
- failure to apply IEE at project level;
- project-level activities outside the scope of the IEE

Operating Units must have a system in place to assure conditions from high-level IEEs are applied at the project level.

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What about host-country EIA procedures?

- Most host countries have domestic EIA requirements;
- USAID projects must also comply with these requirements;
- So, during screening, also screen against host country categories.
- If a host-country preliminary assessment or full EIA is required, the objective is to create **one document that satisfies both systems.**



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Summary

- 22 CFR 216 defines USAID's pre-implementation environmental review process
- It is a specific implementation of the general EIA process
- It begins with a systematic screening and decision-making process that leads to more detailed review, if necessary
- Documentation and approval processes are clear and mandatory

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Session 7.

Effective IEEs.

Objective

Initial Environmental Examinations (IEEs) are USAID's version of the preliminary assessment and the most common type of Reg. 216 documentation.

Understand the basic structure of an IEE and the characteristics of well-written, well-considered IEEs. by critiquing draft IEEs based on the virtual field visits.

Format

Group Exercise

Background/Review

A well-considered, well-written IEE is the basis of good mitigation and monitoring and the foundation of the LOP compliance process.

The responsibility for assuring that good-quality environmental documentation is developed lies with team leaders, A/CORs, and activity managers—this is true even when a 3rd-party contractor or the implementing partner develops the IEE.

Again, **Reg. 216 documentation is developed by Mission staff, Partners or contractors**, depending on the situation:

- Most IEEs that cover a Mission's sector portfolio (sector- or DO-level IEEs) are developed by Mission staff or 3rd-party contractors.
- Partners are often asked to develop Reg. 216 documentation for new project components.
- 3rd-party contractors are almost always engaged to undertake EAs.

In the Mission, the MEO should serve key roles as (1) a resource for Reg. 216 documentation development; (2) reviewer/gatekeeper for this documentation.

Summary

In this session, we build and practice skills to evaluate IEE quality, including whether recommended determinations and conditions are appropriate.

To do this, we continue the exercise we began in Session 7. We again play the role of mission sector teams or IPs in the process of adding a new program component not covered by an existing IEE. A consultant has now delivered a draft IEE covering the new project component. (The original IEE covering the project did not include this component.) . Informed by your field visit, you must evaluate the draft IEE.

Effective IEEs are well-considered and well-written. Such IEEs:

1. Address the full scope of proposed activities described in the activity briefing (see previous section)
2. Characterize the aspects of the baseline situation critical to evaluating the significance of impacts
3. Identify and adequately evaluate key potential impacts.

4. Set out mitigation measures that are (1) adequate and (2) *within the scope of USAID's reasonable authority*. (For example, we cannot impose conditions on actors over whom USAID has no control.)
5. Make recommended determinations that are reasonable, defensible and in accordance with Reg. 216.
6. Use clear, uncluttered language and parallel organization in the presentation of activities, analysis of impacts, and recommended determinations.

Instructions.

Individually, read the relevant draft IEE (in simplified bullet-point form) on the following pages.

As a group, and based on your knowledge of the activities from our virtual field visits, critique the IEE against the six criteria for effective IEEs set out above. Refer to the project briefing in session 5.

Unfortunately, your hard-working consultant did not present a quality product. The draft IEE has some clear deficiencies and some deficiencies that are more subtle or debatable.

We will briefly report-out on these critiques in plenary. Final (revised) IEE considerations will be presented for discussion.

Draft IEE for Project 1: *(in bullet-point form for quick reading)*
**Small-holder Irrigation Development Component of the
Small-holder Agric. Productivity and Market Access Program (SAPMA)**

1. Background and Activity Description

1.1 Purpose and Scope

- This is an activity-level IEE supplementing the existing sector-level IEE covering the “Smallholder Agricultural Productivity and Market Access Program (SAPMA)”
- Its purpose is to provide the first review of the reasonably foreseeable effects on the environment, as well as recommended Threshold Decisions, for the new “Pilot Smallholder Irrigation Activity” of the SAPMA.
- This IEE is necessary as construction & operation of Irrigation Projects is not covered under the parent SAPMA IEE.

1.2 Background

- SAPMA is intended to boost smallholder agricultural productivity with improved varieties and cultivation practices, and to support cooperative processing & marketing
- SAPMA was designed with the intent that improved varieties and practices would be applied to existing smallholder plots. However, experience in the field shows that lack of irrigation infrastructure is a key barrier to smallholder productivity.
- This activity will rehabilitate and expand the 200 Ha Bagamoyo Irrigation Development Project (BIDP) smallholder irrigation scheme, train farmers, and hand-off management to an existing cooperative. Larger roll-out of this approach (8–10 such schemes) in the next SAPMA phase is anticipated.

1.3 Description of Activities

- **Rehabilitation and expansion:** Pump station and intake structure on the Ruvu river. Re-construction of 300m feeder canal to scheme with expanded capacity. Estimated diversion is 10% of Ruvu River median low-flow volume (currently ap 7%).

Minimal re-leveling of 200 Ha site, rehabilitation of primary and secondary canals and control gates. Leveling of 50Ha expansion areas; rehabilitation of new secondary canals.

Construction of 3 dwellings for households currently occupying the expansion site (see below)

Operation. SAPMA will operate the scheme for a 2-season training period (2growing seasons/yr)

Training and extension. Cooperative members will be (re-) trained in irrigated agriculture techniques (over 2 seasons) and cooperative and scheme management. TA/Extension services will be provided for an additional 2 seasons (1 year).

2. Country and environmental information

2.1 Locations affected

- Expansion site (50Ha) is state land. (The site was gazetted and cleared for a state-run plantation in the 1970s. The scheme was never completed.) It lies ~ 100m from the Ruvu river. Vegetation is grassland and scrub typical of the area.
- The expansion site is uninhabited except for three households informally occupying the land. Cooperative has already negotiated with these households and they have agreed to voluntary resettlement near ABC village, a settlement of 200 households ~0.5km away.

2.2 Applicable Host Country Environmental Policies and Procedures

Scheme has received approval from the office of the District Commissioner. No further permits or studies are required.

3. Evaluation of Project/Program Issues with respect to Environmental Impact Potential

Construction/rehabilitation of irrigation and intake structures can lead to downstream sedimentation.

Operation. *Note that operation is only in the purview of this IEE until hand-off to the cooperative.* Irrigation schemes have a number of potentially significant adverse impacts, including:

(1) salination of soils; (2) contamination of surface and shallow groundwater with seepage and discharge containing pesticides and fertilizers; (3) excessive diversion adversely affecting downstream uses and ecosystems; (4) increased incidence of some insect-borne diseases due to increase in standing and stagnant water. Regarding these potential impacts:

Significant salination is unlikely to occur within the period of SAPMA operation and technical assistance.

SAPMA will not be supplying pesticides. Any pesticide impacts are thus outside the scope of this IEE.

The scheme will be managed for minimal discharge. Any discharge will be to an existing wetland area adjacent to the scheme. Natural filtration and purification functions provided by the wetland should prevent any contamination of the Ruvu river via surface discharge. Groundwater is used neither on-site nor in ABC village, which receives piped water.

Impacts of water diversion on the Ruvu River are not expected to be significant.

Stagnant/standing water already exists due to proximity of wetland; any stagnant or standing water associated with the irrigation scheme will be minor in comparison.

Technical assistance and extension. Training and technical extension should have no adverse environmental impacts.

4. Recommended threshold decisions and mitigation actions, including monitoring and evaluation

- A **negative determination** is recommended for **construction** activities, **subject to the condition** that best construction management practices described in the *Small Scale Guidelines* are followed.
- A **categorical exclusion is recommended for technical assistance and extension activities, pursuant** to §216.2(c)(2)(i) (education, training and technical assistance).
- A **negative determination with conditions** is recommended for **operation** with the condition that the contractor develop and submit a plan for monitoring soil chemistry for any early indications of soil degradation.

Draft IEE for Project 2:

(in bullet-point form for quick reading)

District Hospital Expansion and Rehabilitation Component of the Maternal, Child & Rural Health Support Program (MCRH)

*NOTE: as a result of your field visit, certain activities have been **ADDED** to the project. (Underlined)*

1. Background and Activity Description

1.1 Purpose and Scope

- This is an activity-level IEE supplementing the existing sector-level IEE covering the “Maternal, Child & Rural Health Support Program” (MCRH)
- Its purpose is to provide the first review of the reasonably foreseeable effects on the environment, as well as recommended Threshold Decisions, for the new “District Hospital Expansion and Rehabilitation” component of the MCRH.
- This IEE is necessary as rehabilitation and expansion of major health care facilities is not covered by the existing IEE

1.2 Background

- District hospitals are key “anchors” of the public health system. In addition to providing treatment for more serious cases (and quarantine of potentially epidemic diseases), they serve as supervisory, data-collection, stocking and distribution centers for the clinics and health posts in their districts.
- Many district hospitals, particularly in the MCRH target areas, are 35–40 years old, and have undergone no significant expansion or rehabilitation since construction.
- Survey of existing facilities has determined that overall MCRH program objectives will not be met unless hospital facilities themselves are significantly upgraded.

1.3 Description of activities.

5 District hospitals in MCRH target areas will be chosen according to criteria developed in consultation with the Ministry of Health. For each hospital:

- **Construction of new ward blocks & rehabilitation of existing ones.** The expected result is a 50% increase in bed capacity at beneficiary hospitals (usually ~ 60 beds), with significant improvements to lighting, ventilation and hygiene over existing conditions.
- **Construction and installation of new facilities for management of sharps and “red bag” waste.** At all facilities surveyed, existing incinerators are operating poorly or are non-functional. They are largely non-reparable. New incinerators will be constructed/installed. , per attached specification. On-site waste pits will be provided at all hospitals.
- **Rehabilitation and new construction of latrine blocks**
- **Repair or construction of perimeter fences, walls, construction or reconstruction of drainage, and**
- **In consultation with each facility, development of management plans for infectious waste, associated training of staff, and implementation monitoring.**

2. Country and environmental information

2.1 Locations affected.

- Individual locations vary, but most hospitals eligible for this scheme are in built-up areas. Many were originally peri-urban but are now urban. Often they are co-sited with schools or other public facilities.

- In some cases, adjacent settlement is informal and hospital fencing/walls are in poor repair or non-existent. In these cases, dwellings have been erected inside hospital grounds.

2.2 Applicable Host Country Environmental Policies and Procedures

The scheme has been developed in consultation with the Ministry of Health. It will be implemented in active coordination with the MoH and the Administrator of each hospital. MoH will have responsibility for consultation with the office of the District Commissioner. No further permits or studies are required.

3. Evaluation of Project/Program Issues with respect to Environmental Impact Potential

- Construction in built-up areas has nuisance impacts (dust, noise and vibration). In the hospital environment, these impacts can have significant adverse effects on patient health, e.g. on the safety of surgical procedures.
- As environments are urban /peri-urban , no adverse impacts on ecosystem functions or biological resources are anticipated.
- Hospitals in operation produce a number of waste streams with potentially significant adverse impacts. While MCRH is not responsible for hospital operations *per se*, facilities installed under this project will clearly affect waste streams and their management. These impacts are expected to be beneficial:
 1. The effect of this project should be to improve existing waste management of the most biologically hazardous waste streams: sharps and “red bag” waste.
 2. Rehabilitation of wards, construction & rehabilitation of latrines, and drainage improvements will produce a healthier environment for patients, staff and community.
 3. Repair and construction of perimeter fences will reduce opportunities for community exposure to infectious material (particularly by children & livestock.)

4. Recommended threshold decisions and mitigation actions, including monitoring and evaluation

- A **negative determination** is recommended for all **construction** activities subject to the **conditions** that:
 1. good construction management practices specified in the *Small Scale Guidelines* are followed
 2. for each hospital, MCRH develop a **mitigation and monitoring plan** to minimize the impacts of construction on patients and hospital operations, that this plan give the Hospital Medical Director clear authority to require immediate halt and remedy, and that this plan be approved by the Hospital administrator and medical director.
- A **categorical exclusion** is recommended for **development of management plans for infectious waste, training of staff, and implementation monitoring** pursuant to §216.2(c)(2)(i) (education, training and technical assistance).

For discussion

The following IEE conditions are those that are commonly approved for these types of activities. Do you agree that they would be appropriate in these cases?

SAMPA Smallholder Irrigation Development Component

1. **Safe Pesticide Handling.** Farmer training shall include safe pesticide handling practices as a mandatory component. During SAMPA's direct operation of the scheme, it shall assure that appropriate PPE is available and that the specified practices are implemented. To promote safe practices following scheme hand-off, SAMPA shall work with the cooperative to build safe handling education into the process by which members gain access to cooperative-supplied agricultural inputs.
2. **Water conservation.** All primary and secondary canals shall be lined. A regular inspection maintenance plan shall be developed and implemented to identify and stop leaks. Intake shall be managed for as close to zero discharge as possible.
3. **Water quality monitoring.** During the SAMPA direct operation and continuing technical assistance period, discharge and groundwater shall be monitored regularly for possible nutrient and pesticide contamination.

District Hospital Expansion and Rehabilitation Component of the Maternal, Child & Rural Health Support Program (MCRH)

1. **Medical waste handling.** By the conclusion of assistance under this MCRH component, supported District Hospitals must have adequate procedures and capacities in place to properly handle, label, treat, store, transport and dispose of blood, bio-hazards and other medical waste. Appropriate guidance is articulated in Part II, Chapter 9 of the USAID's *Environmental Guidelines for Small Scale Activities*, titled, 'Healthcare Waste: Generation, Handling, Treatment and Disposal'. Particular reference is made to the section titled "Minimum elements of a complete waste management program" and the appropriate "Minimal Program Checklist and Action Plan" in Annex A.
2. **Kitchen & Sanitary/Hygiene facilities.** By the conclusion of assistance under this MCRH component, supported District Hospitals must have kitchen and sanitary/hygiene facilities (i.e. toilet/latrines & showers) & management protocols for these facilities sufficient to minimize the possibility of patient-to-patient & patient-to-staff transmission.
3. By the conclusion of assistance under this MCRH component, supported district hospitals must have **Brown and gray wastewater systems** which must be sufficient to prevent contamination of surface or groundwater with infectious pathogens.

(Note: For both projects, additional conditions would pertain to construction)

Session 8.

Core EIA Skills II:

Environmental Monitoring & Environmental Mitigation and Monitoring Plans

Objectives

Establish the objective of environmental monitoring (determining clearly and cost-effectively if mitigation is sufficient and effective); brief the two types of environmental monitoring indicators & achieve a common understanding of the principles of environmental monitoring design.

Brief the EMMP concept; establish that EMMPs are critical to effective and systematic implementation of IEE/EA conditions; explain the mechanisms by which USAID is requiring IPs to develop and implement EMMPs.

Practice translating general IEE conditions into specific mitigation actions.

Format

Presentation; short group exercise

Summary

This session continues our acquisition of core EIA skills critical to life-of-project compliance. It has 3 major parts: (1) Principles of Environmental Monitoring, (2) Environmental Mitigation and Monitoring Plans, and (3) Translating general IEE or EA conditions to mitigation actions.

1. Environmental Monitoring

Definition. Environmental monitoring is both:

- A. Systematic verification of the implementation of mitigation measures.
- B. Systematic observation of key environmental conditions.

Environmental monitoring is a necessary complement to mitigation. Its purpose is to tell us clearly and cost-effectively if mitigation is sufficient and effective.

Throughout this session, we will see that environmental monitoring must be highly targeted.

A. Verifying Implementation of Mitigation Measures. We can verify (and quantify!) implementation of mitigation measures in two ways: via paper reports and via field inspection. In each case, we use **mitigation implementation indicators**. For example, monitoring of medical waste management in a clinics activity could ask the beneficiary clinics to attach their waste management plan. A field inspection would spot check that key elements of the plan were being implemented.

Good environmental monitoring is targeted and takes the simplest effective approach. It usually requires a combination of environmental conditions indicators and mitigation implementation indicators.

B. Observing environmental conditions. The environmental conditions observed are those:

- That correspond to impacts and mitigation measures. For example, a key potential impact of an irrigation project is groundwater contamination. Therefore, **ground-water quality** is monitored.
- Upon which the project depends for its success. For example, a water supply project depends on clean source water. Therefore, **source water quality** is monitored.

We observe and measure environmental conditions by using **environmental indicators**, which are signals of or proxies for the stock and quality of key environmental resources, or of environmental health and ecosystem function.

Indicators can require complex equipment to measure (e.g. testing water for pesticide residues), but they can also be very simple—and often for small-scale activities simple indicators are best. (For example, groundwater levels can be measured in a shallow well using a rope and bucket.)

A key principle of monitoring is choosing the simplest indicator that meets your needs.

NOTE: environmental indicators are NOT “F” indicators or core program performance indicators.

To distinguish the impacts of your activity from other factors, thought needs to go into the times and places that indicators are measured.

For example, consider an agricultural processing facility that draws water from a stream. The facility has potential to adversely impact surface water quality. A good monitoring approach would:

- Take water samples from the stream at the intake point and downstream from the seepage pits.
- Take samples from these different locations at the same time.
- Take samples during both high and low flow periods during the processing season.

What is the relationship of monitoring to environmental compliance? Initial Environmental Examination and Environmental Assessment conditions are mitigation requirements. IEEs (and EAs) are useless unless the conditions they establish are implemented! USAID’s environmental procedures therefore require implementation of IEE/EA conditions (mitigation) and monitoring this implementation.

2. Environmental Mitigation and Monitoring Plans (EMMPs)

The need. In Asia/ME missions and programs and across the agency, implementation of IEE and EA conditions is the weakest element of life-of-project environmental compliance.

A key lesson learned from 40 years of EIA experience world-wide is that it is almost impossible to systematically carry out the mitigation measures that result from the EIA process unless an EMMP exists, and is incorporated into a project’s workplan and budget.

The concept. Environmental Mitigation and Monitoring Plans (EMMPs) are a framework for specifying and organizing mitigation and monitoring, and assuring that it responds systematically to IEE/EA conditions.

In their most basic form, EMMPs are a simple table that sets out:

- ALL the mitigation measures being implemented in response to IEE/EA conditions
- The monitoring that will determine whether the mitigation is sufficient and effective.
- Who is responsible for both mitigation & monitoring..

EMMPs may also include **budgeting** information for mitigation and monitoring and a **monitoring log section where** monitoring results can be recorded. We illustrate the EMMP concept at the end of the *session with an extended example*.

(Note that EMMPs are also known as EMPs (Environmental Management Plans), EMPRs (Environmental Mitigation Plan and Report), and similar acronyms. EMMP is the most widely used term. EMMP formats likewise vary. IEEs or awards sometimes specify an EMMP format, but more often the IP has flexibility in designing/adopting/adapting a format that meets the needs of the particular project. The formats used in this workshop are the most common and are acceptable in most contexts.)

ME IEEs requiring EMMPs. USAID’s environmental procedures require that environmental mitigation required by IEEs and EAs is implemented and monitored, but do not require EMMPs *per se*. However, almost all new ME IEEs (and those in other regions as well) do require that EMMPs be developed and implemented.

This requirement can be operationalized either as technical direction from the C/AOR or as a provision of new contracts and agreements.

(Title II Cooperating Sponsors are required to develop EMMPs by the Agency’s DFAP guidance.)

EMMP submission and approval. EMMPs should be approved by the C/AOR; sometimes there is additional review by the MEO or REA. C/AORs should require that they are submitted together with the project’s workplan or PMP.

3. Translating IEE Conditions to Mitigation Actions

IEE conditions are often written very generally. For example, an IEE might specify that “wells shall be sited to minimize the possibility of contamination.” (Or even more generally: wells shall be sited and constructed consistent with good practices.”)

Implementing this IEE condition (which begins with developing an EMMP) requires that it be translated into specific mitigation actions.

In this case, the project would need to develop or adopt a set of specifications for well location that can then be referenced in the EMMP.

For example, the project might adopt the following, based on the *Sector Environmental Guidelines*:

The following MINIMUM distances from potential sources of contamination will be observed for well siting:

- 150 ft (45.7 m) from a preparation area or storage area of spray materials, commercial fertilizers, or chemicals that may cause contamination of the soil or groundwater.
- 100 ft. (30.5 m) from a below-grade manure storage area.
- 75 ft (22.9 m) from cesspools, leaching pits, and dry wells.
- 50 ft (15.2 m) from a buried sewer, septic tank, subsurface disposal field, grave animal or poultry yard or building, privy, or other contaminants that may drain into the soil.
- The distance between a septic tank leach field and a down-gradient well should be greater than 100 ft (30.5 m) if the soil is coarser than fine sand and the groundwater flow rate is greater than 0.03 ft/day (0.01 m/day).²

The EMMP could then list the concrete mitigation action as “compliance with project well siting criteria,” and attach those criteria as an Annex.

In this session, we will work in groups through a set of actual examples of “general IEE conditions” and discuss how to translate them into specific mitigation actions.

■ _____

² Source: Driscoll, Groundwater and Wells, Second Edition, as cited in the *Small Scale Guidelines*.

Key resource

The *Sector Environmental Guidelines* are a key resource for design of mitigation and monitoring measures. The *EMMP Factsheet* is included as an annex to this sourcebook. It includes formats and how-to guidance.

Environmental Impact Assessment Skills, Part II: Environmental Monitoring & Environmental Mitigation and Monitoring Plans

Definition of environmental monitoring

Environmental monitoring is always BOTH...

1. Determining whether mitigation is being implemented as required

2. Determining whether mitigation is working

! Environmental monitoring should be a normal part of project monitoring and evaluation

Monitoring: Part 1

1. Determining whether mitigation is being implemented as required

This includes quantifying mitigation:

- How many staff trained?
- How many trees planted?

There are two basic ways to get the information required:
paper reports & field inspection

For example...

Verify that mitigation is implemented

Mitigation measure is:

"Clinic staff shall be trained to and shall at all times segregate and properly incinerate infectious waste."

Desk assessment:

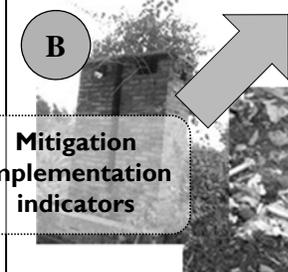
Clinics are asked to report:

- Percentage of staff trained
- Spot inspections of waste disposal locations carried out?
- The result of these inspections?



Field inspection

shows waste is segregated at point A, but not incinerated at point B.



Mitigation implementation indicators

Monitoring: Part 2

2. Determining whether mitigation is working

= Systematic observation of key environmental conditions. . .

Example: a road project may lead to stream sedimentation. **Stream turbidity** is monitored.

(1) that correspond to impacts & mitigation measures and/or

Example: A water supply project depends on clean source water. **Source water quality** is monitored.

(2) upon which the project depends for its success

5

Monitoring environmental conditions

Systematic observation of key environmental conditions

= systematically choosing and assessing environmental indicators

environmental indicators are



Signals of/proxies for

- Environmental health
- Ecosystem function
- Community well-being

They are NOT “F” indicators or core program performance indicators

For example...

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Environmental indicators: sometimes complicated, often simple

- Environmental Indicators may require laboratory analysis or specialized equipment and techniques
 - Testing water for pesticide residues
 - Automatic cameras on game paths for wildlife census
 - Etc.
- But indicators are often VERY SIMPLE, especially for small-scale activities

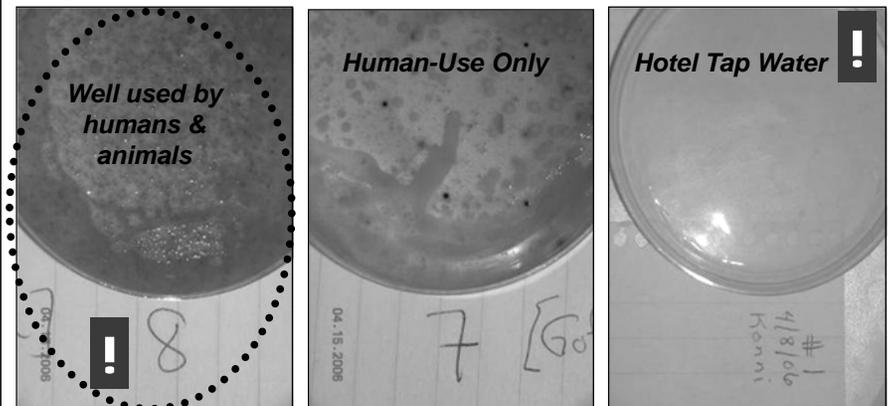
! Simple indicators can be more useful and appropriate than more complicated ones!

For example. . .

7

Example Indicator: coliform contamination

Water quality tests with simple, inexpensive test kit . . .

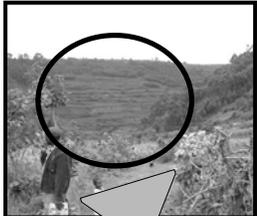


Purple Color = Fecal Coliforms | Pink Color = Other Coliforms

8

Examples of simple environmental indicators

Measuring erosion



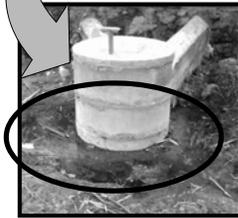
Topsoil loss from slopes upstream in the watershed **(top)** is assessed with a visual turbidity monitor **(bottom)**



Surface contamination by sewage



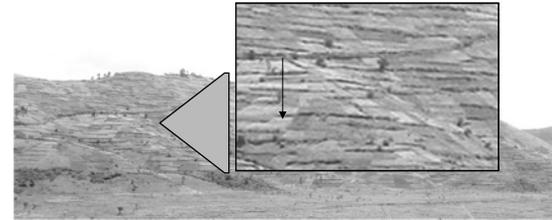
Visual inspection behind the latrine **(top)** reveals a leaking septic tank **(bottom)**



What are the limitations of this indicator?

9

Examples of simple environmental indicators



Soil depletion. Visual inspections show fertility gradients within terraces. (Dark green cover indicates healthy soil; yellow cover indicates depletion)

Groundwater levels are measured at shallow wells with a rope and bucket



Choose the simplest indicator that meets your needs!

10

Systematically assessing environmental indicators

Monitoring often requires **SYSTEMATIC** measurement of indicators to distinguish the impacts of the activity from other factors

This requires decisions about:

1 Location of measurement

2 Timing & frequency of measurement

and often . . .

3 Other factors

For example...

11

Systematically assessing environmental indicators

Example:
Impact of agricultural processing on water quality

1

Location

Water samples should be taken at the intake, and downstream of seepage pits.

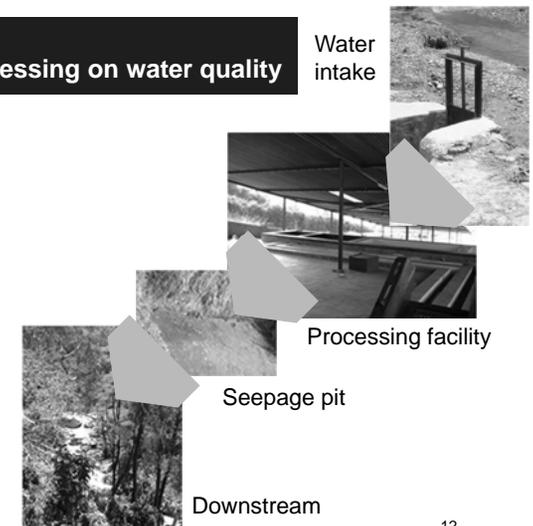
2

Timing & frequency

Samples at different locations should be taken at the same time. Samples should be taken at **high & low flow** during the processing season

3

What else?

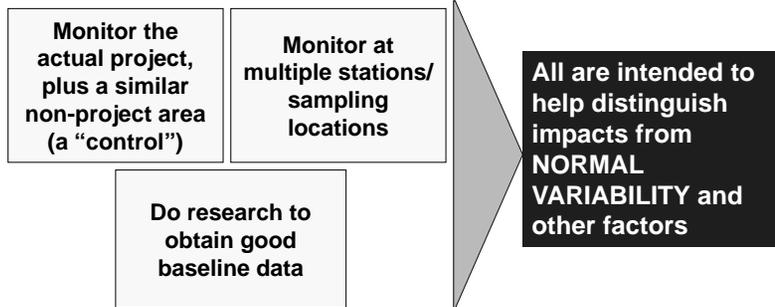


12

Being systematic

Sometimes monitoring can be more complicated

Some common monitoring strategies:



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Good environmental monitoring. . .

- Tells you clearly and cost-effectively if mitigation is sufficient and effective.
- Usually requires a **combination** of:
 - Environmental indicators
 - Mitigation implementation indicators
- Do no more than needed – prioritize the most serious impacts and issues



Version: September 2012
download or print: [usaidsdgems.org](#)
comments and corrections to: [XXXX](#)

GEMS Visual Field Guide: CONSTRUCTION#
for quick identification of serious environmental & occupational health and safety concerns in small-scale construction

About the GEMS Visual Field Guide Series

GEMS Visual Field Guides are intended for use during field visits by USAID and implementing Partner staff who are not environmental specialists. They are intended to ensure that the most serious serious environmental deficits in activity design and management are quickly and easily identified for corrective action.

Note that an activity can be subject to environmental design and management conditions specified in its Environmental Assessment or Initial Environmental Examination or by host country regulations which are not captured in this document. The field guides complement the more detailed guidance found in USAID's Initial Environmental Examination Guide.

Consult the conditions for guidance regarding exemptions, mitigations and corrective actions. The conditions are available at [https://usaidsdgems.org](#).

Disclaimer: This field guide was originally developed by The Catholic Group, Inc. for International Business Group (IBG) under USAID Agency Review's Environmental Compliance and Management Support (ECMS) Program, Contract Number EPP-040-02-0001-001. This guide is to be considered any the sole responsibility of the author and does not necessarily reflect the views of USAID or the United States Government.

A. Pre-construction Site Survey: A "YES" answer to any of the following conditions that construction on the site will cause higher than normal impacts. A site-specific environmental review, written and objective measures sufficient to address those risks are required. Mark the end of the row with a "YES" or "NO".

A.1. Is the site within 50m of a permanent or seasonal stream or water body?

Image 1: Construction or operation may result in sedimentation or other contamination of the water.
Image 2: Construction may interfere with discharge of upstream lands.
Image 3: New stormwater management on the bank of a single stream.

A.2. Is the site heavily forested? In a permanent or seasonal wetland? In a relatively undisturbed ecosystem? In a protected area?

Image: These sites are high value due to their biodiversity and/or other "ecosystem services" (e.g. flood control, breeding habitat) they provide. Thus, any adverse impacts of this construction or operation are far more likely to be significant.

A.3. Does the site show evidence of having been used as a waste dump?

Image: Historical materials such as asbestos may be present and pose a health danger to construction workers and other proximity of adjacent. There is a higher chance that construction is contaminated and unstable. Dump sites often are land disposal sites.

A.4. Is the site sloped at greater than 25 degrees?

Image: Steeply sloped sites present high risks for erosion that can permanently degrade the site and runoff that can add sediment load to nearby water courses and result in gully or gash formation at roads.

Image: The view downward from a slope construction site shows erosion and runoff channels.

A.5. Is the site occupied or cultivated?

Image: Existing inhabitants or farming areas or users of agricultural or other uses of land, can be a significant social impact if not addressed via compensation, resettlement, or mitigation.

YES NO

10/2012

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Applying mitigation & monitoring to environmental compliance

- Initial Environmental Examination and Environmental Assessment conditions are mitigation requirements
- IEEs (and EAs) are useless unless the conditions they establish are implemented!
- **USAID's environmental procedures require implementation of IEE/EA conditions (mitigation) and monitoring this implementation**

15

Practically, implementation of IEE/EA conditions requires that. . .

1. USAID communicates applicable IEE/EA conditions to the Implementing Partner
2. A complete **Environmental Mitigation and Monitoring Plan (EMMP)** exists
3. Workplans and budgets integrate the **EMMP**
4. Reporting on **EMMP** implementation is part of project performance reporting

40+ yrs of EIA experience worldwide tells us: No EMMP = No implementation

EMMPs are critical What are they?

16

Environmental Monitoring & Mitigation Plans: simple in concept

An EMMP (if needed) :

- **TRANSLATES** IEE conditions into specific mitigation measures to implement IEE/EA conditions
- **SETS OUT** indicators/criteria for monitoring implementation & effectiveness of mitigation
- **ESTABLISHES** timing and responsible parties
- **Usually** in table form. Formats are usually flexible.

See a basic EMMP
template in your manual

17

What does “translate IEE conditions into specific mitigation measures” mean?

Sometimes implementing
IEE conditions requires
first translating them into
specific mitigation actions

How to do this?

For example:

“Wells shall be sited to minimize the possibility of contamination.”

Or even more generally:

“Wells shall be sited consistent with good practices.”



18

Let's practice!

In small groups, take 15 minutes to begin to “translate” these IEE conditions into specific, implementable, monitorable mitigation actions. Bullet out results. Make any assumptions needed regarding the project context.



Health Services Capacity & Policy

“Capacity-building and policy development support to public health delivery & management systems must involve all practicable efforts to assure that these systems address and support proper waste management (including handling, labeling, treatment, storage, transport and disposal of medical waste).



Direct Financial or Technical Assistance to Agroprocessing Enterprises

“Existing enterprises/facilities receiving direct USAID support will be reviewed to identify any significant environmental management deficiencies and these deficiencies promptly corrected.”

19

Question:

How are EMMPs required and approved?



EMMPs are not required by 22 CFR 216, but they are required by most newer IEEs across most Bureaus

Requirement implemented by:

1. Technical direction from C/AOR
2. Required by contract/agreement

Generally approved by COR/AOR

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Effective mitigation and monitoring must be...

<p>Realistic Achievable within time, resources and capabilities</p>
<p>Well-targeted Mitigation measures and indicators must respond to IEE conditions (and thus correspond to impacts.)</p>
<p>Considered early Preventive mitigation is usually cheapest and most effective. Prevention must be built in at the design stage. If mitigation and monitoring budgets are not programmed at the design stage, they are almost always inadequate.</p>
<p>Funded Funding must be adequate over the life of the activity</p>

Session 9.

Small Group Indicators Exercise

Objective

Build and apply indicator selection skills (a key constituent skill for EMMP development) in a scenario-based small group exercise centered on the ENCAP Visual Field Guides.

Instructions

In this exercise, we work in small teams to build and practice indicator selection skills. Each team will:

- 1. Be given a brief project scenario & the IEE conditions that apply (below).**
 - There are three project scenarios: **water supply, sanitation & small clinics**.
 - In each scenario, the team is a prime contractor supervising a number of local contractors.
 - In each scenario, the prime must put in place environmental monitoring to assure that the mitigation being carried out fulfills the IEE conditions, and is generally sufficient and effective.
- 2. Review their project scenario and then the relevant ENCAP Visual Field Guide.**
 - The **ENCAP Visual Field Guides** provide a mix of simple environmental conditions indicators and mitigation implementation indicators that can be “measured” (in a yes/no response) during a quick field inspection.
- 3. Identify an appropriate set of indicators for their project** by (1) adding, (2) removing, and/or (3) changing the indicators provided in the Visual Field Guides.
 - Note that the guides provide indicators for quick field inspections only. Is there desk monitoring you would add? More detailed environmental conditions monitoring?
 - You may wish to consult the relevant chapter of USAID’s *Environmental Guidelines for Small-Scale Activities*, which provide more detailed information on impacts, issues and good practice for these sectors.

Facilitators will serve as a resource for and provide feedback within each team. At the end of the exercise, we will not have a formal report-out, but the lead facilitator will ask for quick reactions from teams/individual participants.

Team 1 Scenario: Small-Scale Wat/San Activity—Sanitation Component

You are implementing a small-scale water and sanitation project. Among other components, the project is:

- Building and rehabilitating latrines in rural communities, as well as in schools and clinics serving these communities.
- **Working with community associations, school authorities, and clinic management to put in place** effective, latrine management systems. The project hands over the latrines after a period of mentored local management.

You supervise a number of local contractors who are carrying out the actual construction and local capacity-building work, and must put in place environmental monitoring to assure that the mitigation being carried fulfills the IEE conditions, and is generally sufficient and effective.

During the period of project direct control, the IEE imposes the following conditions.

1. Insects and other disease vectors shall not have “in and out” access to latrine pits.
2. Latrines shall not contaminate surface soil, surface waters or any groundwater tapped for domestic use. This shall include assuring at least 30m separation between latrines and any shallow well or surface water tapped for domestic use.
3. Latrines shall be maintained in clean condition, and any latrine wastes (such as toilet papers/leaves) disposed of by burial at least 30m from any shallow well or surface water tapped for domestic use)
4. Latrines shall include hand-washing stations, and all reasonable efforts made to encourage their use.
5. Latrines shall be sited, designed and maintained to minimize risk factors for poor use, including inadequate provision for gender privacy and inadequate provision for children,
6. Latrine management systems developed with community associations, schools, and clinics shall specifically address the foregoing conditions.

Key resources:

ENCAP Visual Field Guides

Relevant sector chapters of USAID’s *Environmental Guidelines for Small-Scale Activities*.

Team 2 Scenario: Small-Scale Wat/San Activity—Water Supply Component

You are implementing a small-scale water and sanitation project. Among other components, the project is:

- Building and rehabilitating water points (shallow wells and boreholes) in rural communities, as well as in schools and clinics serving these communities.
- Working with community associations, school authorities, clinic management to put in place effective water supply management systems. The project hands over the water points after a period of mentored local management.

You supervise a number of local contractors who are carrying out the actual construction and local capacity-building work, and must put in place environmental monitoring to assure that the mitigation being carried fulfills the IEE conditions, and is generally sufficient and effective.

During the period of project direct control, the IEE imposes the following conditions.

1. Before water is provided for human consumption, it shall be tested for both arsenic & fecal coliform. Testing will continue quarterly for 4 quarters. Arsenic testing must use the Hach Arsenic test kit (www.hach.com).

If arsenic is over 10ppb, the project will not supply borehole water to the public

If fecal coliform is detectable in any 100ml sample, it must be filtered or treated until non-detectable in a 100ml sample before being provided for public use. All tanks shall be covered; all wells shall either have a raised cover or be capped with a pump.
3. Water points shall feature concrete aprons and drainage. Water points shall neither cause soil erosion nor result in standing water.
4. Shallow wells shall be sited at least 30m from pit latrines, waste dumps, and/or contaminated surface waters.
5. Livestock shall be excluded from all supply points intended for human use.
6. Water supply management systems developed with community associations, schools, and clinics shall specifically address the foregoing conditions.

Key resources:

ENCAP Visual Field Guides

Relevant sector chapters of USAID's *Environmental Guidelines for Small-Scale Activities*.

Team 3 Scenario: Small Clinics

You are implementing a rural health sector project that includes:

- Construction and rehabilitation of small clinics.
- Operation of these small health facilities during a capacity-building period, after which the clinics are turned over to the local authority.

You supervise a number of local contractors who are carrying out the actual construction and local capacity-building work, and must put in place environmental monitoring to assure that the mitigation being carried out fulfills the IEE conditions, and is generally sufficient and effective.

During the period of project direct control, the IEE imposes the following conditions with respect to handling of healthcare waste.

1. Infectious waste (including sharps, bloody bandages and pathological wastes) shall be segregated from general waste at the point of generation. Sharps shall be collected in separate containers in each treatment area.
2. Waste storage shall be in secure, tightly closed containers at least 20m from treatment areas, wards, kitchens and canteens. No more than 7 days accumulation of waste shall be maintained on-site
3. Infectious waste shall be incinerated if possible or at minimum burnt, and the ash/residue then buried in a fenced burial pit. The pit must not contaminate surface waters or any groundwater tapped for domestic use. This shall include assuring at least 30m separation between the pit and any shallow well or surface water tapped for domestic use.
4. Open disposal of general waste is not permitted on-site. Burning of general waste containing > 10% plastics by volume is not permitted.
5. Individuals handling infectious waste shall be trained in and follow safe handling practices, including wearing appropriate personal protective equipment when handling this waste.
6. Clinic management systems developed during the period of direct operation shall specifically address the foregoing conditions.

Key resources:

ENCAP Visual Field Guides

Relevant sector chapters of USAID's *Environmental Guidelines for Small-Scale Activities*.

Session 10.

Field-Based EMMP Development Exercise (includes Field Visit)

Objectives

Integrate, build upon and apply acquired skills for EMMP development, using existing guidelines and field observations as the basis for a practical EMMP design exercise.

Summary

In this session, we will integrate and strengthen environmental analysis skills by developing an EMMP in a scenario-based, small-team exercise. This session includes a field visit which provides the observation, information-gathering, and multi-disciplinary team approach opportunity needed for the EMMP development.

Teams and Sites. The facilitators will give a briefing on each of three site visits and divide the participant into **3 teams**. The site descriptions and exercise scenarios can be found on the following pages.

Exercise. USAID staff are responsible for evaluating EMMPs; therefore it is necessary that they have a detailed understanding of the process for developing one. Therefore during this session, participants will develop a summary EMMP by conducting a field visit to an existing project similar to a proposed USAID-funded project and using the information gained to develop the summary EMMP. Each team will receive a site description for the existing project, and the relevant *Small Scale Guidelines* to assist them during their field visit.

Each group will meet prior to leaving for the field, to plan a strategy to collect and analyze field data, assign roles and responsibilities, and document findings. Visiting an existing project site that is similar to a project for which an EMMP will be developed, will help participants to understand the likely impacts of the hypothetical project, the typical environmental management practices involved, and the environmental management challenges posed by this type of activity.

Scenario. USAID has just awarded three new 5 year programs, in agriculture, health and waste water management, to three implementing partners in Thailand. These programs include the following activities: 1) Expansion of urban waste water treatment systems 2) Provision of agricultural best practice support and 3) Expansion of urban health services. The procurement stage of the program life cycle is now complete, however, before the implementation stage can begin **USAID requires that an EMMP be developed for each of these three projects.**

Therefore each team's responsibilities are **1) to collect site-specific information (environmental, socio-economical, eco-systemic, etc.) during the field visit and 2) use this information and field observations as well as all available information available from the three scenarios (found in the summary descriptions) to develop a summary EMMP upon their return to the office.**

Each *team* will then present their EMMP in plenary.

Instructions

A. Exercise & Site Briefing

The training team will brief the overall EMMP development exercise, the project scenario(s), and the Summary Descriptions of Field Site(s)

B. Group Preparation

Teams will initiate development of their EMMP and discuss and agree on their strategy for the site visit, including:

- Identification of key baseline conditions to observe at the site. (i.e. the conditions that will affect the design and implementation of mitigation measures.)
- Assignment of roles and responsibilities.

C. Field Visit

The field visit is intended to provide a “reality check” on initial EMMP development, thus making sure that the EMMP is well-grounded in field reality.

Each team should:

- Observe baseline conditions at the site, particularly those that could affect the significance of impacts and the design of mitigation (for example, are people living in close proximity to the site? Is there domestic use of groundwater or discharge? Etc.)
- Understand the different sub-activities that happen at the site, and who is responsible for them – with particular emphasis on the sub-activities most responsible for adverse environmental impacts.
- Understand the environmental management practices currently in place, and look for evidence that they are effective (or not).

It is possible that we will observe certain ESDM deficiencies at the site. But please remember that we visit as observers and invited guests, not auditors or inspectors. We should observe, listen, and by all means ask questions—but not offer criticism to our hosts.

D. Group Work: Summary EMMP Development, continued

Back in the classroom, each team will continue their work to develop an EMMP responsive to (1) the scenarios developed to match each site, and (2) the realities observed in the field. Teams should use the last portion of this session to finalize their presentation. PowerPoint formats for the presentations will be provided to participants for this session.

E. EMMP Presentations & Wrap-up discussion

Each group will present its EMMP in plenary.

Session 10

Field Visit Site write-up Placeholder

Session 11.

IP Reporting on Environmental Compliance

Objectives

Achieve a common understanding of the two basic elements of IP environmental compliance reporting: (1) providing USAID with an auditable record of IP environmental compliance; and (2) "mainstreaming" critical elements of environmental soundness/compliance into one or more core program performance indicators.

Format

Presentation.

Summary

ADS 204 requires that C/AORs monitor and evaluate on an ongoing basis whether the environmental mitigation required by the governing IEE(s)/EA is being implemented and is effective. (In other words, C/AOR oversight responsibilities extend to environmental compliance, just as they do to other elements of project implementation.)

Practically, this requires that IPs not only systematically comply with IEE/EA conditions by developing and implementing EMMPs, but that they *report* to USAID on this implementation.

IP environmental compliance reporting consists of two elements—one required and one recommended:

1. Project reporting must provide an auditable record of environmental compliance.

Generally, IP's quarterly or semiannual reports should contain a separate environmental compliance section. The section must provide sufficient information on the status of EMMP implementation for USAID to effectively fulfill its oversight and performance monitoring role.

If the EMMP contains a "monitoring log" section, then the EMMP itself, updated with current monitoring results, can simply be appended to the report.

For large projects with complicated EMMPs, a text summary/short analysis of EMMP implementation is needed. This should highlight key mitigation activities underway in the reporting period, any significant issues encountered, and corrective actions/adjustments made.

Any specific reporting requirements imposed by the IEE or EA must also be satisfied.

2. Strongly recommended: One or more key project performance indicator(s) (project results framework) reflect overall environmental soundness/ environmental compliance.

In other words, the most critical elements of environmental soundness/ compliance should be "mainstreamed" into the project results framework. For example:

In a water point provision project, the IP might use the indicator "number of protected water points established with zero fecal coliform after 6 months" rather than "number of water points established."

In a road rehabilitation project, the IP might use the indicator "km of road rehabilitated under environmentally sound practices" rather than "km of road rehabilitated."

In both cases, the “environmentalized indicator” demonstrates the core project activities are being executed with attention to environmental soundness/compliance. It is NOT expected or appropriate to “environmentalize” every key indicator, or to capture every mitigation measure.

(This best practice applies to new awards. Where EMMPs are developed after the PMP is established, it may not be possible to change key performance indicators.)

Missions should not rely on IP progress reports alone to track environmental compliance. Field visits at minimum should include a quick check for significant environmental design/management problems (for small-scale wat/san or health care activities, use the ENCAP Visual Field Guides). For environmentally complex activities, specific field visits should be made to verify EMMP implementation.

Reporting on Environmental Compliance



So an IP has a high-quality EMMP AND is implementing it rigorously. . .

USAID needs to know.*

1. Project reporting must provide an auditable record of environmental compliance
2. One or more key project performance indicator(s) (project results framework) should reflect overall environmental soundness/ env compliance.

* ADS requires C/AOR to actively manage and monitor compliance with any IEE/EA conditions

Let's look at #1 first:

“Project reporting must provide an auditable record of environmental compliance”

Quarterly or semiannual reports should contain a separate environmental compliance section

The section must provide sufficient information on the status of EMMP implementation for USAID to effectively fulfill its oversight and performance monitoring role

In addition, IEEs may contain specific reporting requirements that must be addressed



If the EMMP contains a “monitoring record” section:

The EMMP itself, updated with current monitoring results, can simply be appended to the report.

	Incorporated in final technical specifications		Built-as specified? (confirmed by field inspect.)			Notes (Issues & resolution)
	Date Confirmed	Initials	Y/N	Date of inspection	Initials	
Design requirement						
GRADING, SEPTIC & DRAINAGE. If construction results in substantially increased slope of any land within 10m of the stream, that slope must be protected with berms, plantings, etc.)						
Site grading and drainage shall be designed and constructed to prevent accumulation of standing water						
Aprons must be installed and drainage provided at water supply point(s)—no standing water allowed.						
No direct gray or brown-water discharge to stream is allowed. All drainage with the exception of storm runoff and water point drainage must be channeled to the septic system.						
If septic tank design is a pump-out tank without leach field, assure impermeable tank construction or min 30m separation between tank and stream and nearest shallow well.						

Excerpt of EMMP with monitoring record for medium-scale construction project.

If the EMMP contains a “monitoring record” section:

The EMMP itself, updated with current monitoring results, can simply be appended to the report.

Mitigation Measure	Responsible Party	Monitoring Scheme			Est. Cost	Monitoring Log		
		Indicators	Data source/ Method	How Often		Date	Result	Follow-up
3. Install & properly operate canal-level flow regulation structures	Project agricultural technician	<ul style="list-style-type: none"> # of doors and other flow-control structures installed •% of Ha. under flow control •% of secondary & tertiary canals showing significant erosion damage after each growing season 	Reports Field visit	Quarterly	An irrigation rehabilitation EMMP			
4. Protect upper slope with fruit (mangoes, citrus, avocado) and forest trees	Project agricultural technician	<ul style="list-style-type: none"> # of trees planted and survived • % of at-risk upper slope land protected • total m3 of sediment removed from canals over each rainy season. 	Reports Field visit Comparison with baseline information	Quarterly /Annual				

5

For large projects with complicated EMMPs, a text summary/short analysis of EMMP implementation is needed

- Highlight key mitigation activities underway in the period, any significant issues encountered, and corrective actions/adjustments made



Now on to requirement #2:

6

Mainstreaming environmental issues into the project results framework

“One or more key project performance indicator(s) (project results framework) should reflect overall environmental soundness & compliance.”

This does NOT mean that:

- Every mitigation measure must be captured in core indicators
- Every core program indicator must be “environmentalized”

This IS to say that *overall*, project success must be partly measured on the most critical elements of environmental soundness/ compliance

This applies to new awards.

Where EMMPs are developed after the PMP is established, it may not be possible to change key program indicators.

7

Mainstreaming environmental issues into the project results framework

EXAMPLE:
Water Point Provision

Key Program Indicators:

- Protected* water points established
- # beneficiaries receiving water from protected water points
- % of water points with no fecal coliforms per 100 ml
- % of water points established that are clean after 6 months

* Protected = fenced against livestock, drained

As implemented, this intervention will NOT show good performance. . .



8

Mainstreaming environmental issues into the project results framework

EXAMPLE: Food for Peace

How much firewood does a typical Food for Peace (FFP) program use?

~1 kg firewood/person/day x 70,000 beneficiaries x 365 d
~30,000 MT of firewood /yr

Mitigation:

Improved cookstoves and cooking practices

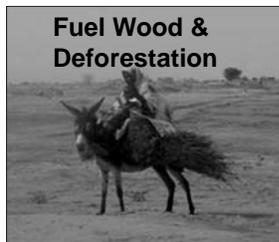
Added to key program indicators :

> Amount of fuel saved by improved practices

> Amount of time saved by improved practices

NOT just number of stoves distributed

Fuel Wood & Deforestation



9

Mainstreaming environmental issues into the project results framework

EXAMPLE: Road rehabilitation

Typical Indicator:

> Km of road rehabilitated

Strengthened, "Environmentalized" indicator:

> Km of road rehabilitated under environmentally sound practices.*

*provide definition of environmentally sound practices from EMMP



10



Who reviews EMMPs & environmental compliance reporting inside USAID?

Will environmental compliance checks be part of Mission M&E?

As with all other aspects of the project, the A/COTR is the primary reviewer. But the MEO and M&E function may also be involved.

Environmental Compliance Verification/Oversight by USAID

1. Prior Review/Approval of partner-developed

→ EMMP→

ensure responsive to IEE/EA conditions

→ Budgets and workplans→

ensure EMMP implementation planned & funded

→ Project Reporting Framework→

ensure environmental compliance reporting requirements are met

Primary responsibility for ensuring compliance lies with C/AOR

MEO will also review/clear where activities are environmentally sensitive and/or IEE/EA conditions are complex

2. Ongoing review of partner progress reports to monitor EMMP implementation

MEO on distribution list for IP's quarterly/semi-annual project reports

3. Field visits:

→ at a minimum, all visits integrate a quick check for significant env. design/management problems

→ For environmentally sensitive activities, specific visit(s) to audit against EMMP

Most field visits are by C/AOR or M&E Officer

MEO should visit the most environmentally sensitive activities (REA may assist)

12

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So an IP has a high-quality EMMP AND is implementing it rigorously. . .

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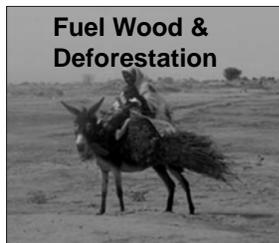
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MEO should visit the most environmentally sensitive activities (REA may assist)

12

Session 12.

Roles, Responsibilities and Resources

Objective

Understand environmental compliance roles and responsibilities of USAID staff and IPs and tools and resources available to support environmental compliance.

Format

Presentation

Summary

This session brings together information that has been introduced throughout the workshop, in addition to addressing some new topics. *All concern the processes, roles and responsibilities for environmental compliance in missions and operating units.*

Key topics are:

- How environmental compliance is mainstreamed (integrated throughout) agency operations by the Automated Directives System (ADS).
- The roles and responsibilities of USAID staff and IPs in respect to environmental compliance on USAID projects.
- The importance of incorporating best-practice Environmental Compliance Language (ECL) in solicitations and awards and the benefits of using the ECL tool for this purpose.
- Resources available to support environmental compliance and environmentally sound design and management.

IP and USAID environmental compliance roles and responsibilities post-award are as follows:

Project stage	Implementing Partner	USAID
Workplan & PMP Development	<ul style="list-style-type: none"> Develops EMMP Integrates EMMP into budget & workplan. Determine environmental compliance reporting 	<p>Review and approval of:</p> <ol style="list-style-type: none"> 1. the EMMP (for responsiveness to IEE/EA conditions & sufficiency of monitoring); 2. The budget/workplan (to verify that EMMP implementation is planned and funded); and 3. The reporting framework to assure that environmental reporting requirements are met.
Implementation	<ul style="list-style-type: none"> Implementation of EMMP. Reporting on EMMP implementation 	<p>Ongoing review of partner progress reports to monitor EMMP implementation</p> <p>Field visits—at a minimum, all visits should integrate a quick check for significant environmental design/management problems. For environmentally sensitive activities, specific visits should be made to verify EMMP implementation.</p>

Environmental Compliance Roles, Responsibilities, Reporting and Resources

Environmental Compliance and the Automated Directives System (ADS)

- **USAID’s Automated Directives System (ADS) sets out mandatory procedures, roles and responsibilities for:**

- “Upstream compliance”
Design and 22 CFR 216 process
- “Downstream compliance”
Implementing IEE and EA conditions



Environmental Compliance and the ADS

ADS 204 (“Environmental Procedures”) is the core ADS reference, but environmental compliance is mainstreamed throughout the ADS

Overarching requirement:

Operating units must have systems in place for environmental compliance over life of project and must make sufficient resources available for this purpose

(202.3.6; 204.3.4)

Compliance Requirement	Responsible Parties	ADS Reference
Environmental considerations in activity planning	Team Leaders, Activity Managers	201.3.8.1 204.3.3
No activity implemented without approved Reg. 216 environmental documentation	COR/AOR/ Activity Manager	201.3.9.3 201.3.1.1 204.3.1 204.3.3.b 303.3.2.e
IEE & EA conditions incorporated into procurement instruments	COR/AOR/ Activity Manager; Agreement Officer	204.3.4.a.6 303.3.6.3e 303.3.13
IEE & EA conditions are implemented, and implementation is monitored and adjusted as necessary	COR/AOR	202.3.6; 204.3.4 303.2.f
Environmental compliance documentation is maintained	PO, COR/AOR, Team Leader, MEO	202.3.4.6

A Note About Record Keeping

- **Approved 22 CFR 216 documents are kept in 2 places**
 - in official project files maintained by C/AOR
 - in official BEO files
- **22 CFR 216.10 makes all of these available to the public**
 - **Agency-wide searchable database** of all Reg 216 docs approved since 2000:
<http://gemini.info.usaid.gov/egat/envcomp/>
- **Annual reporting is required**





Mission Environmental Officer



- At each Mission
- Quality Assurance/Quality Control reviewer for Reg. 216 docs
- Clears Reg. 216 docs before they go to Mission Director
- Mission compliance advisor and coordinator, assists in compliance monitoring
- Mission point of contact to Regional Environmental Advisor and Bureau Environmental Officer

5

Regional Environmental Advisor



- Based in regional Missions
- Assists Missions (MEOs and program teams) and BEO with implementing environmental compliance
- Provides quality assurance and quality control of Reg. 216 documentation before it goes to the Bureau Environmental Officer
- Provides environmental compliance advice and clearance, conducts training, audits Mission portfolios for compliance
- Assists in arranging additional environmental expertise, when required

6

Bureau Environmental Officers

- Based in Washington DC;
- Oversee environmental compliance in their Bureaus
- Primary decision makers on 22 CFR 216 threshold decisions for activities under the purview of their Bureau
- Concurs with recommendations from Mission Directors for environmental threshold decisions for activities under the purview of their Bureau
- Approves scoping statements and clears on EAs

7

Sector Teams & Mission Management

CORs/AORs & Activity Managers.

Assure Reg. 216 documentation in place. Assure IEE/EA conditions & compliance requirements incorporated into procurement instruments. Monitor compliance with IEE/EA conditions & modify or end activities not in compliance.

Team Leaders

Oversee CORs/AORs. Assure that their teams have environmental compliance system in place.

Mission Director

Ultimately responsible for environmental compliance. Mandatory clearance on all Reg. 216 environmental documentation.

Primary Responsibility for Environmental Compliance

The MEO is a member of every sector team (ADS 204.3.5)

8

Agency Environmental Coordinator, Office of the General Counsel

Agency Environmental Coordinator (AEC)

- Coordinates Agency-wide implementation of 22 CFR 216
- Advises on issues related to Reg 216 and coordinates with GC in interpreting Reg 216 in new situations
- Concurs in AA's appointments of BEOs
- Serves as USAID liaison on NEPA to CEQ, coordinates domestic EIS process (rare)

Regional Legal Advisors (RLAs)

- Provide legal advice on environmental compliance to field staff. Some regions require RLA clearance on Reg 216 documents.

Assistant General Counsels (AGCs)

- Provide legal advice to BEOs and RLAs on environmental compliance in their regions

9

Reg 216 docs: Who writes? Who clears?

Who writes?

- AOR/COR responsible for assuring Reg. 216 documentation in place.*
- Can engage a consultant/contractor to develop — Environmental Assessments almost always developed by 3rd party consultants.
- USAID is responsible for contents/determinations **NO MATTER WHO DEVELOPS IT!**

Go to the field before you write

Who clears?

- COR/AOR, Activity Manager or Team Leader
- MEO (for Mission)
- REA (depending on Mission/regional policy)
- **Mission Director or Washington equivalent clears**
- **Bureau Environmental Officer concurs.** Responsibility/authority cannot be delegated.

**Required by
Reg. 216**

10

Who is responsible?

USAID

Assures Reg. 216 documentation in place. Establishes/approves environmental mitigation & monitoring conditions. Verifies compliance.

In the Mission

Fundamental responsibility & accountability:

- Sector Team Leader
- Activity Managers & COTR/AOTRs
- ultimately with the Mission Director

MEO: quality and completeness reviewer for Reg. 216 documentation; compliance advisor and coordinator; assists in compliance monitoring.

11

Implementing Partners

ALWAYS: Implement mitigation and monitoring conditions that apply to their project activities & report to USAID.

ALWAYS responsible for design of detailed environmental mitigation and monitoring plan (EMMP) in response to mitigation and monitoring conditions established by the Reg. 216 documentation.

SOMETIMES develop Reg. 216 documentation (IEEs, EAs)* for new project components; develop subproject env. review reports (for subgrants/subprojects).

*Title II CSs develop IEEs as part of their MYAPs.

Environmental Compliance Verification/Oversight by USAID

1. Prior Review/Approval of partner-developed

→ **EMMP**→

ensure responsive to IEE/EA conditions

→ **Budgets and workplans**→

ensure EMMP implementation planned & funded

→ **Project Reporting Framework**→

ensure environmental compliance reporting requirements are met

Primary responsibility for ensuring compliance lies with C/AOTR.

MEO will also review/clear where activities are env. Sensitive &/or IEE/EA conditions are complex.

2. Ongoing review of partner progress reports to monitor EMMP implementation

MEO on distribution list for IP's quarterly/semi-annual project reports.

3. Field visits:

→ at a minimum, **all visits** integrate a quick check for significant env. design/management problems

→ For environmentally sensitive activities, **specific visit(s)** to audit against EMMP.

Most field visits are by C/AOR or M&E Officer

MEO should visit the most environmentally sensitive activities (REA may assist)

12

Environmental Compliance and Procurement Instruments

ADS Requires. . .

"Incorporating environmental factors and mitigative measures identified in IEEs, EAs, and EISs, as appropriate, in the design and the implementation instruments for programs, projects, activities or amendments."

(204.3.4(a)(6))

- **Critical to IP compliance with IEE/EA conditions**
- **BUT: historically, problems in implementation:**
 - Many USAID procurement instruments have NOT adequately addressed environmental compliance
 - Lack of guidance required A/CORs, COs to repeatedly "reinvent the wheel"
 - Partners/contractors fail to budget for environmental requirements

The solution. . .

Environmental Compliance: Language for Use in Solicitations and Awards (ECL)



Environmental Compliance: Language for Use in Solicitations and Awards
An Additional Help for ADS Chapter 204

Revision Date: 05/19/2008
Responsible Office: EGAT
File Name: 204sac_051908

Step-by-step guidance and boilerplate language

- For RFAs/ RFPs/ agreements/ grants/ contracts
- Optional, not required
- ADS Help Document

Available from
www.usaid.gov/policy/ads/200/204sac.pdf

The Environmental Compliance Language document generates. . .

Best practice solicitation language

Requiring that: Proposals address **qualifications and proposed approaches to compliance/ ESDM** for environmentally complex activities.

Best practice award language

Requiring that: IP verifies current & planned activities annually against the scope of the RCE/IEE/EA.

The **necessary mechanisms and budget** for IP implementation of IEE/EA conditions are in place.

To assure that projects do not "creep" out of compliance as activities are modified and added over their life.

Specifically:

1. Complete **EMMP** exists or is developed.
2. Workplans & budgets integrate the EMMP
3. Project reporting tracks EMMP implementation

The ECL strengthens Environmentally Sound Design & Management, and. . .

Provides cost & efficiency benefits to both Mission Staff & Implementing Partners

USAID Staff

Avoids the effort, costs and loss of good will that come from imposing "corrective compliance" measures on IPs after implementation has started.
Reduces USAID cost and effort of env compliance verification/oversight by assuring that IPs integrate environmental compliance reporting into routine project performance reporting.

Implementing Partners

Provides clarity regarding environmental compliance responsibilities
Prevents "unfunded mandates"—USAID requirements to implement M&M after implementation has started & without additional budget.

References and Useful Information

- USAID Environmental Compliance and Related Links
http://www.usaid.gov/our_work/environment/compliance
- 22 CFR 216 Environmental Compliance Procedures
http://www.usaid.gov/our_work/environment/compliance/22cfr216
- Automated Directives System Series 200 (with link to Chapter 204)
www.usaid.gov/policy/ads/200/
- Environmental Compliance Language for Use in Solicitations and Awards
<http://www.usaid.gov/sites/default/files/documents/1865/204.pdf>
- Global Environmental Management Support with Sectoral Environmental Guidelines and many other resources
<http://www.usaidgems.org/>



17

References & Useful Information

SECTORAL ENVIRONMENTAL GUIDELINES
Chapter 11: Livestock
AUGUST 2012

- USAID Environmental Compliance & Related Links
http://www.usaid.gov/our_work/environment/compliance
- 22 CFR 216
http://www.usaid.gov/our_work/environment/compliance/22cfr216
- ADS Series 200 (with link to Chapter 204 & ECL)
www.usaid.gov/policy/ads/200/
- IEE Assistant (help in preparing Reg. 216 documentation) and Sectoral Environmental Guidelines + many other resources
www.usaidgems.org



18



GEMS Services

- ❖ **GEMS . . .**
 - *provides tools, resources, technical assistance and capacity building to **strengthen environmental management and environmental compliance***
 - *serves USAID Missions and partners globally*
- ❖ **GEMS services are available. . .**
 - *On a subsidized basis (access via request to REA), or*
 - *Via buy-in to GEMS*

For more info consult
the GEMS Factsheet
(next pages)

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Session 13.

Environmental Compliance/ESDM Knowledge Game

Facilitated Team Competition

Summary

We have now examined, discussed, and/or practiced the following workshop topics:

1. The objectives of Environmentally Sound Design and Management (ESDM); the Environmental Impact Assessment (EIA) process and the development and application of fundamental EIA skills.
2. The implementation of USAID Environmental Procedures and purpose and structure of EMMPs.
3. The selection of environmental indicators and monitoring for environmental compliance.
4. Budgeting for environmental management and reporting on project environmental performance.

We will now play an environmental compliance/ESDM knowledge game to review key concepts related to core technical skills and knowledge. The game will take the form of a competition among small teams.

Further discussion of core content will occur in our “Parking Lot” session, in which outstanding technical issues will be resolved.

Game Briefing

Teams

Four (4) or five (5) teams with 6-8 persons/team; each team includes one non-participant recorder.

“Performance Assessment aligns with Programming Framework”:

Three (3) rounds of five (5) multiple-choice/fill-in-the-blank questions each; questions in each round correspond to core agenda topics and assess the objectives of that component. Questions increase in difficulty as the rounds progress.

Democracy and Governance

Teams must operate by consensus, reaching unanimous agreement on each answer.

Monitoring and Evaluation

The recorder for each team will verify consensus for each answer by show of hands and record the answer on the answer sheet. Recorders will verify that no books, notes, laptop computers or other electronic devices are employed to assist in answering questions.

Each team’s scores will be tabulated by an independent party (e.g., Assistant Emcee) at the conclusion of each round. Scoring by the independent party is final.

“Results Framework”

- First team to complete all questions in a round receives the most bonus points. Each subsequent team: 2 points less; last team receives no bonus. Any team working when time is called receives no bonus.
- Each correct answer: 5 points.
[NOTE: some questions have more than one element/choice. EACH correct element/response is worth 5 points.]
- Each incorrect answer: 3-point DEBIT.
[NOTE: multiple wrong answers on a question result in multiple debits.]
- No answer: 0 points.
- All answers in a round correct: 10-point bonus.
- Each round is time-limited at 12 minutes.
- Team scores will be posted to the front and updated after each round.

Implementation Procedures

1. MC briefs the game (contents of this session summary). Time pressure is part of the exercise!
2. Assistant MC assigns teams and recorders. Members of each team cluster together.
3. Deputize recorders.
4. Teams can briefly discuss strategy and elect captains.
5. MC asks recorders to confirm that all training materials and electronic aids are closed/off.
6. Distribute Round 1 questions to team recorders.
7. MC starts the 1st round; recorders open the envelopes and distribute questions. Teams begin.
8. Recorders blow their whistle/noisemaker when their team finishes.
9. Assistant MC records order in which teams finish.
10. Round concludes after 12 minutes, or when all teams are finished, whichever is first.
11. Assistant MC tabulates scores for each team; they are posted at the front.
12. Repeat steps 6-11 for the subsequent two rounds.
13. After three rounds, grand winner is declared and prizes are awarded.

In the event of a tie, a “sudden death” round of “special topic” questions will follow.

Session 14.

Resolving the “Parking Lot”:

Final General Q&A Session

Facilitated Discussion

Summary

Through the technical presentations, group work and discussions we have identified a number of “parking lot” items—questions and issues that could not be easily addressed at the time they arose, but which are important to answer and resolve before the end of the workshop. Additional issues may have been raised during yesterday’s Environmental Compliance/ESDM Knowledge Game.

As we prepare to conclude the workshop, we will use this session to discuss—and hopefully resolve—these parking lot issues in a facilitated discussion that draws on assembled expertise of USAID environmental staff, the consultant trainers, and participants.

Objective

Conclude the “core technical skills and knowledge” portion of the workshop by resolving parking lot issues.

Key Resource

- List of “parking lot” issues compiled during the workshop.

Session 15.

Bringing Training to Reality

Objective

Survey the Mission and Project compliance processes and capacities required for compliance. Review typical gaps and shortfalls and examples of mission good practices identified by Mission Environmental Procedures Best Practices Reviews (BPRs) and OIG audits.

Identify key messages to communicate to mission management/sector team leaders (USAID staff) and COPs (IP staff) to prioritize and strengthen LOP environmental compliance.

Develop an individual plan for workshop follow-up to strengthen LOP environmental compliance in your project, team, or mission/operating unit.

Summary

Taking Stock: the State of Environmental Compliance in USAID Mission & Projects

This workshop has set out LOP environmental compliance requirements, and how the responsibilities for fulfilling these requirements are allocated among IPs, C/AORs and MEOs.

In practice, significant compliance gaps and shortfalls exist. Many of these gaps and shortfalls are rooted in inadequate compliance *systems and processes*:

That is, for compliance to be achieved in practice, it is not enough that individual USAID and IP staff understand their roles and responsibilities and master key skills; internal mission/team and project processes must be in place that support (and require) the exercise of these responsibilities.

This is well-illustrated by the results of almost 20 Environmental Procedures Best Practices Reviews (BPRs) conducted in Africa missions over the past several years.¹ The BPR is a voluntary audit that examines both environmental compliance status AND the policies, procedures, and capacities that support LOP compliance. Specifically, the BPR assesses the mission and its portfolio against the Africa Bureau *Environmental Compliance Best Practice Standard* (included in this section). BPRs include IP interviews and site visits.

These BPRs offer the most broadly based and comprehensive view of environmental compliance and capacity in USAID AFR missions. (No comparable environmental compliance baseline exists for other regions, but discussions with BEOs, REAs and consultants providing environmental compliance support to USAID strongly indicate that the results of BPR exercises in other regions would be very similar.)

¹ In addition, USAID's Office of the Inspector General (OIG) conducted formal Environmental Compliance audits of the Kosovo, Egypt, Kenya and DRC missions as part of a global effort. The OIG synthesis report is available at: www.usaid.gov/oig/public/fy11rpts/9-000-11-002-p.pdf

In this first part of the session, we will:

- Examine the *AFR Best Practice Standard* to better understand the mission processes and capacities required for LOP environmental compliance. (While developed by Africa Bureau, there is nothing about these standards that are region-specific.)
- Review the results of BPRs to date and take a straw poll to compare these findings to participant's views of their own missions.; and
- Highlight mission good practices.

Focus Groups & Individual Action Plans.

Having taken stock of where we are, we are ready to begin to discuss ways forward: how can we and our mission and projects strengthen mission and team compliance processes and capacities to improve LOP environmental compliance and better achieve ESDM.

We will divide into two focus groups: (1) Mission Staff and (2) IPs. (*Note: depending on the balance of participant numbers in these 2 groups, a different grouping may be decided.*) Each group will engage in a facilitated discussion

Focus Group Questions:

- What elements of LOP compliance are well-implemented in your mission/team? Why?
- Have you/your team/the mission/your projects implemented compliance strengthening measures you would like to share? Are they working well?
- Key LOP environmental compliance gaps within your team/Mission/project? What are the causes of these gaps?
- Do you see feasible remedies? What are they?
- What do the USAID sector teams (and A/CORs specifically) need to do differently? Do they or the projects need additional resources, support or training to implement these changes?

Plenary “Way Forward” Discussion and Individual Action Plans.

Following the focus groups, we will reconvene in plenary:

- We will begin the plenary session with a short report-out from each group.
- Then, we will have a facilitated discussion to try to reach agreement, as a group, on the following questions:

Assuming that each of us have the opportunity to deliver post-workshop briefings to Mission Management/Sector Team leaders or COPs, what are the key points to convey to prioritize and strengthen LOP environmental compliance? Key recommendations to make?

(Not all points will be applicable to all everyone, but we want to agree on a set of core messages.)

- The last 20 minutes will be reserved for development of individual workshop follow-up plans, using the template on the following page. We will ask for volunteers to share some of their follow-up items.



Life-of-Project Environmental Compliance & Environmentally Sound Design and Management

A Regional Training Workshop for USAID Staff & Partners

INDIVIDUAL WORKSHOP FOLLOW-UP PLAN

With reference to previous discussions in this session, please identify 3-5 follow-up actions that you plan to take after this workshop to strengthen LOP environmental compliance on your project, in your team, or in your mission/operating unit. For each, state a proposed timeline and immediate next step.

Example actions. Actions might include (but are not limited to):

Brief mission management on key messages identified in this session ▪ Brief contracts team on ECL and inclusion of environmental responsibilities clauses in A/COR letters ▪ Require EMMPs for projects for which you are an A/COTR ▪ Deliver a short LOP Environmental Compliance Briefing for mission staff ▪ Work with M&E specialist to better assess env.compliance in field visits.

Action item	Proposed timeline	Immediate step
<i>Ex. Lead Environmental Compliance Session in upcoming team planning retreat. (Develop short presentation using slides from this workshop.)</i>	<i>3rd week of Lwpg "*****"</i>	
1.		
2.		
3.		
4.		

AFR Environmental Compliance Best Practice Standard

A) Environmental documents are in place, including:	
1) Environmental Compliance Mission Order	
2) MEO Appointment Memo	
3) Up-to-date ETOA or FAA 118/119, prepared with MEO involvement or review	
4) IEEs at SO level, updated as necessary	
5) IEEs at activity level, updated as necessary (if not included in SO-level IEE)	
B) Staff and implementing partners have capacity to ensure environmental compliance:	
1) Staff and implementing partners have been trained in Regulation 216/environmental compliance	
2) MEO has knowledge of country level environmental assessment legislation and country environmental issues	
3) MEO has skills and expertise to identify potential environmental components for Mission SOs and activities;	
4) A "Deputy" or "Alternate" MEO has been appointed to assist when the MEO is unavailable	
5) Opportunities for ongoing training in environmental compliance are provided to staff and implementing partners	
C) Processes are in place to ensure environmental compliance:	
1) MEO reports directly to Mission Director or senior management on matters pertaining to compliance with USAID Environmental Procedures	
2) MEO has mission-wide tracking process for IEE status, which is readily available to all mission staff. (BEO request: use Environmental Compliance Status Report format, an example of which is being sent as an attachment.)	
3) MEO and CTOs/Activity Managers have process for collaborating on activities with potential environmental impacts (from design to closure)	
4) Process exists to identify activities that need amended IEEs (not already covered by the SO level IEE)	
5) Process exists for ensuring IEE conditions are incorporated into Request for Proposals/Request for Applications (RFP/RFA), or process exists for ensuring activity-level IEE will be undertaken by the contractor (and included as a task in the RFA/RFP)	
6) Process exists for incorporating IEE conditions into contracts; and including mitigation and monitoring costs into project budgets	
7) Process exists for ensuring mission or implementing partner develops and implements an Environmental Management Plan/Mitigation and Monitoring Plan (EMP/MMP)	
8) Process exists for reporting to USAID on implementation of mitigation measures and continued assessment of potential environmental impacts (in project semi-annual or quarterly reports);	
9) Financial resources available to support mission environmental compliance processes, including training, analytical support, MEO travel to assist CTOs with field monitoring, etc. When the MEO reports to a sectoral team (Economic Growth, etc.), these resources would ideally be provided by the Program Office, since the MEO duties support the mission as a whole.	
D) The following mission contracting, project, and review/status documents include environmental compliance language:	
1) Strategic Objective Agreement (SOAg) approvals	3) Modified Acquisition and Assistance Request Documents (MAARDs)
2) Activity Approval Documents (AAD)	4) RFPs/RFAs
5) Contracts and cooperative agreements with budget that reflects mitigation and monitoring costs;	
6) Quarterly or semi-annual reports, submitted by project staff to the CTO	
7) Most recent Annual Report submitted by Mission to USAID/W	

8) Portfolio reviews, conducted semi-annually

9) Closure report, where lessons learned regarding ESDM and Reg. 216 should be documented; and

10) Federal management financial information act (FMFIA) review, wherein, on an annual basis, every Mission conducts a review of all their systems (financial and otherwise including ADS 204).

Synthesis of BPR Findings

(Note: findings characterize Mission compliance status at the time of the BPR; they do NOT reflect changes resulting from the BPR.)

1. **“upstream” compliance** (i.e. Reg. 216 documentation coverage for the Mission Portfolio) is generally reasonable, but not perfect:
 - Approval delays, especially for PERSUAPs, are a problem
 - Some but not all missions verify IEE coverage for new activities
2. However, **poor IEE Quality & Lack of Specificity** adversely affect the ability of IEEs to serve as a clear basis for project mitigation actions and project compliance.
 - In part, the problem is intrinsic to sector program level IEEs (SO-level IEEs), particularly those put in place when the sector program is in the early design stage.
 - Problem is not that there are a few notably bad IEEs, but that the current standard of IEE practice in AFR is not adequate.
3. In almost every mission, **a few project examples of good “downstream” compliance** exist. (that is, IEE/EA conditions are being implemented and reported on.)
 - But these examples of strong compliance are person-driven (a proactive C/AOR, a diligent partner), not systems-driven.
 - Compliance seems to be better for Title II CSs (who write their own, project-level IEEs)
4. Generally though, **IP reporting on environmental compliance is very, very limited**. That is, there is no auditable, verifiable record of IEE implementation (or lack thereof)
5. This makes determining the extent of IEE conditions implementation difficult. Different BPRs have had differing levels of success in truly verifying the extent of IEE conditions implementation on a project-by-project basis—depends on level of team cooperation, partner availability.
6. However, in the large majority of cases where we have successfully “drilled down” to the project level, **implementation of IEE/EA conditions is POOR**:
 - Partners and C/AOTRs unaware of conditions
 - Contractual requirements for conditions implementation not in place.
7. **C/AOR awareness of environmental compliance responsibilities is generally poor**—and where present, is often limited to “upstream compliance.” (Of well-informed/pro-active A/CORs, almost all have attended ESDM trainings.)
8. Effective **sector team compliance planning as mandated by ADS is almost non-existent**.
9. **MEO position is chronically under-resourced**. In some cases MEO authority and reporting lines are adequate—in some cases not.
10. **Environmental compliance verification is seldom part of the Mission M&E function**.



ENCAP FACTSHEET

ENVIRONMENTAL PROCEDURES BEST PRACTICES REVIEW

CONTENTS

What are USAID's Environmental Procedures?	1
What is an Environmental Procedures Best Practices Review?	1
Why Should a Mission Conduct a BPR?	2
Who Conducts a BPR?	2
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What is Expected of the Mission once the BPR is Completed?	3
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WHAT ARE USAID'S ENVIRONMENTAL PROCEDURES?

USAID's Environmental Procedures are set out in Federal regulations (22CFR216, or "Reg. 216") and in USAID's Automated Directives System (ADS), particularly Parts 201.3.12.2.b and 204.

Compliance with these Procedures is mandatory. They apply to every program, project, activity, and amendment supported with USAID funds.

In general, these procedures specify an environmental review process that must be applied to all activities before implementation. This process may result in environmental conditions (mitigation measures) that must be:

- integrated into procurement instruments;
- translated into activity-specific environmental mitigation and monitoring plans; and

- implemented and monitored over the life of the activity.

For more information, read the "[USAID Environmental Procedures Briefing for Mission Staff](#)."

WHAT IS AN ENVIRONMENTAL PROCEDURES BEST PRACTICES REVIEW?

The Environmental Procedures Best Practices Review (BPR) is a thorough review of mission environmental compliance status, policies, procedures, and capacities. Its goal is to improve the level, effectiveness and efficiency of Mission compliance with USAID's Environmental Procedures, and to better integrate compliance into normal Mission operations.

The BPR identifies strengths and gaps in a Mission's application of USAID's Environmental Procedures with reference to Africa Bureau's [Mission Environmental Compliance Best Practice Standards](#). This includes assessing the extent to which:

- Required Reg. 216 environmental review documentation [Categorical Exclusions, Initial Environmental Examinations (IEEs), and Environmental Assessments (EAs)] is in place for existing activities and "in pipeline" for planned activities;
- Mission and project staff understand their roles and responsibilities related to the Procedures;
- Mission and project staff capacity to implement the Procedures is adequate or staffing and training needs have been identified and plans have been made to address them;
- Procurement instruments reflect IEE and EA conditions;
- Environmental mitigation and monitoring measures

specified by IEEs and EAs are implemented; and

- Environmental compliance is integrated into partner reporting.

The key output is a *BPR Report and Action Plan* which provides the results of this assessment and sets out recommended actions to address key gaps in compliance and compliance capacity.

WHY SHOULD A MISSION CONDUCT A BPR?

Experience shows that Missions often do not consistently or effectively apply USAID Environmental Procedures over the full project lifecycle. Among others, common gaps in compliance include:

- Objective- and project-level IEEs that inadequately address the specific activities being implemented;
- IEEs or EAs with conditions (mitigation measures) that are not being implemented, monitored, or reported on;
- Procurement instruments that fail to incorporate environmental compliance requirements;
- Project workplanning and budgeting processes that fail to develop an environmental mitigation and monitoring plan (EMMP) responsive to IEE/EA conditions, and/or fail to budget for EMMP implementation; and
- Mission and project staff unaware of their environmental compliance roles and responsibilities.

BPRs were recently endorsed by the Assistant General Counsel for Africa in recommendations to the AA/AFR as a key means of assuring effective implementation of risk management measures needed in Indoor Residual Spray (IRS) programs, particularly those using DDT.

WHO CONDUCTS A BPR?

The BPR is conducted by an external facilitator, a mission counterpart (the MEO or designee), and the Regional Environmental Advisor (REA), who participates for at least part of the in-mission segment.

The roles of each are described below.

WHAT IS THE BPR METHODOLOGY?

The BPR facilitator first conducts a desk review of key documentation (see box at right).

This is followed by interviews with Team Leaders, Cognizant Technical Officers (CTOs), the Program Officer, Contracting Officer, Legal Advisors, and other key Mission staff. The interviews are structured around a field-tested BPR questionnaire.

Where projects have EAs or complex IEE conditions, the facilitator will interview selected partner staff and may conduct field visits.

The process is summarized in the diagram below.

BPR Facilitator timeline



The BPR takes about 22 days of facilitator LOE: four days for desk review of Mission documents and advance correspondence; two days travel; eight days conducting interviews at the Mission and with target partner staff; three days site visits, two days to develop, prepare and deliver a staff briefing on draft findings and recommendations, and three days to produce the final Report and Action Plan. REA support may shorten this time; remote sites and large/complex portfolios may extend it.

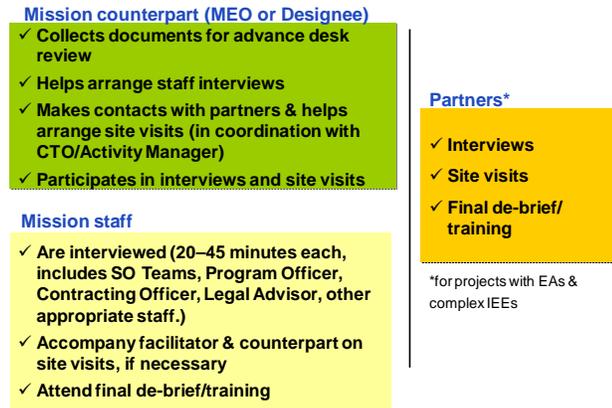
At the end of the in-mission portion of the BPR, the facilitator and the MEO will debrief mission management (and potentially Mission staff more broadly). They may also provide a short training on life-of-project environmental compliance. Partners may be involved in the briefing or training.

Documentation reviewed during a BPR

- MEO appointment memo
- Mission Order on environmental compliance
- Reg. 216 Environmental Documentation (Categorical Exclusions, IEEs, EAs)
- Project Quarterly/Semi-Annual Reports; SO Team Semi-Annual Portfolio Review documents & Annual Reports
- Activity Approval Documents & Procurement Plan
- Mission Training Plan
- Current I18/9 Assessment

WHAT IS THE MISSION AND PARTNER ROLE IN THE BPR?

The BPR involves a number of Mission Staff. Where projects have EAs or complex IEEs, partners are involved as well. Mission and Partner participation and contributions are summarized in the diagram below.



WHAT ARE THE OUTPUTS OF THE BPR?

At the end of the BPR, the facilitator will draft a *BPR Report and Action Plan*. This document will:

- (1) identify all Categorical Exclusions, IEEs, and EAs currently in force, and determine gaps in coverage;
- (2) characterize the extent to which IEE and EA conditions are being implemented and monitored;
- (3) evaluate capacity of Mission and project staff to apply USAID's Environmental Procedures, and recommend training as necessary;
- (4) evaluate environmental compliance-related Mission guidance (Mission Order on Environmental Compliance, MEO Appointment Memo, etc.), and recommend areas that can be strengthened as necessary;
- (5) identify procedures and processes at the Mission, sector, and activity levels where environmental compliance should be incorporated, systematized, or strengthened, and recommend improvements;
- (6) strengthen field-based tracking and monitoring of implementation of IEE/EA conditions by Mission and Project staff; and
- (7) help the Mission to identify locally-based technical support in environmental compliance and environmentally sound design and management, if necessary.

WHAT IS EXPECTED OF THE MISSION ONCE THE BPR IS COMPLETED?

Any gaps in Reg. 216 documentation coverage identified by the *BPR Report and Action Plan* must be corrected per 22 CFR 216. Failures to implement IEE/EA conditions must also be corrected.

The Mission is not obligated to implement other Action Plan recommendations. However, the recommendations are intended to be practical and are meant to strengthen project outcomes.

WHAT RESOURCES ARE AVAILABLE TO ASSIST WITH BPRS?

The following resources are available to help Missions to implement the BPR process and to minimize the burden on Mission staff:

Regional Environmental Advisor (REA) Support.

REAs participate in at least part of the in-mission segment of all BPRs. They may also be available to provide BPR coordination or additional technical support.

AFR/SD ENCAP technical support. Africa Bureau's ENCAP program (www.encapafrika.org) is available to provide BPR facilitators and technical assistance to support Action Plan implementation. ENCAP resources are typically provided on a mission cost-share basis. ENCAP support is accessed via request to the REA.

Other External resources: Using its own resources, the Mission may contract directly with a consultant to serve as the BPR facilitator and to provide TA to implement the Action Plan. Ideally, such support would be local and therefore more available for follow-up support. AFR/SD and ENCAP can help identify international consultants, as needed, and can provide assistance with Scopes of Work.

Session 16: Workshop Evaluation

Format

Fill in workshop evaluation form.

Summary

In response to comments received on the previous workshops in this series and in response to evolving Agency and Regional programming, a number of changes to agenda and session content were implemented in this workshop. Your feedback is essential to strengthen materials and agenda—and to draw attention to Mission and Program TA and support needs for ESDM and environmental compliance.

Key Resource

Evaluation form (following pages)

Workshop evaluation

Life-of-Project Environmental Compliance and Environmentally Sound Design and Management A Middle East Regional Training Workshop for USAID Staff & Partners

Rabat, Morocco ▪ 10–14 March 2014

Your frank and honest feedback will help strengthen future trainings and help prioritize ESDM and environmental compliance support to USAID Programs and Missions in the Middle East and globally. Thank-you for your time!

Learning approach

For each issue, please check the assessment you most agree with

Issue	Assessment			Comments		
Balance of time in classroom to time in field	Much more time in field needed	A bit more time in field needed	About right	A bit more time in classroom needed	Much more time in classroom needed	
In the classroom, balance of presentations to exercises, group work & discussions	Much more emphasis on presentations needed	A bit more emphasis on presentations needed	About right	A bit more emphasis on exercises/discussions needed	Much more emphasis on exercises/discussions needed	
Technical level & pace	Much too heavy	A little too heavy	About right	A bit too light	Much too light	
Opportunities for peer exchange & learning	Needed to hear and learn much more directly from facilitators	Needed to hear and learn more directly from facilitators	About right	Some more opportunities for peer learning/exchange are needed	Many more opportunities for peer learning/exchange are needed	

Highest/Lowest-rated sessions

Please identify the 1 or 2 sessions that you rate most highly (for content, usefulness, approach or for other reasons). Please also identify the 1 or 2 sessions that you found least engaging/useful/relevant. Please briefly indicate the reasons for your choice. (You may wish to refer to the agenda to refresh your memory.)

Session	Comment (Please explain why you made this choice.)
HIGH-RATED	
HIGH-RATED	
LOW-RATED	
LOW-RATED	

Overall evaluations

Please check the assessment you most agree with.

Issue	Assessment					Comments
	Very poor	Poor	Acceptable	Good	Excellent	
Technical quality (Program & Content)						
Facilitation						
Logistics						
Venue						
Field visits						

Impact

Please circle the characterization you most agree with.

Question	Characterization			Comments
Baseline Knowledge In light of what you have learned in this workshop, how would you rate your understanding of ESDM and USAID's Environmental Procedures BEFORE this workshop?	Had poor or limited understanding	Understood the basics, lacked some details	Had a strong and detailed understanding	
Empowerment To what extent has this workshop increased your <u>knowledge and capabilities</u> to address environmental compliance requirements in the context of your job function/professional responsibilities?	Not at all	Moderately	Strongly	
Motivation To what extent has this workshop increased your <u>motivation</u> to <i>proactively</i> address environmental compliance and ESDM in the context of your job function/professional responsibilities?	Not at all	Moderately	Strongly	

Key topics not covered

Were there any topics of key importance to you that were not covered/given very limited attention?	
--	--

Support needs

Are there particular environmental compliance/ESDM support needs or resources that you require?	
---	--

Additional comments welcome on any topic.

Special Topic

Pesticide Risks, Safer Use & USAID's Pesticide Procedures

Objective

Brief the environmental, economic and human-health concerns attendant to Pesticide Use. Achieve a common understanding of the special environmental compliance requirements that apply to pesticide use & procurement, and of the key elements of safer pesticide use.

Format:

Presentation and Q&A.

Summary

This sessions summarizes the environmental and health concerns attendant to pesticide use, the key elements of safer pesticide use, and USAID's procedures for environmental review of support to pesticide use and procurement.

These procedures define "use and procurement" broadly and add specific, additional requirements to the general pre-implementation environmental review process established by Reg. 216. These requirements are satisfied via a Pesticide Evaluation Report and Safer Use Action Plan (PERSUAP), which is formally an amendment to the project's IEE. The requirements of the Safer Use Action Plan portion of the PERSUAP are thus IEE conditions and their implementation is mandatory.

Although PERSUAPs are generally developed by specialists, workshop participants may be involved in the review and implementation of PERSUAPs.

USAID policy and procedures regarding pesticide use are described in 22 CFR 216.3(b).

Pesticide Risks, Safer Use and Compliance

Pests are. . .

living organisms that occur where they are not wanted or that cause damage to crops, animals, humans or other animals.

Examples include: insects, mites, rodents (and other animals), unwanted plants (weeds, invasives), fungi, bacteria and viruses.



Special 22 CFR 216 Issue: Pesticides

- Pesticides are a commonly encountered element in both agriculture and health activities
- USAID has special procedures within 22 CFR 216 to address pesticide procurement and/or use
- You don't have to avoid using pesticides when they are needed, but you must ensure they are properly selected and safely used



So, What Exactly is a Pesticide?

- Pesticide is the generic term for any substance that destroys, prevents, repels, or mitigates an unwanted organism
- The US Government's experts on pesticides and regulation of them is EPA. As a USG agency, USAID goes only by EPA registrations and labels on safe and appropriate selection and use of pesticides



Types of Pesticides

- Insecticides
- Herbicides
- Fungicides
- Rodenticides
- Microbicides
- Repellents
- Disinfectants
- Etc.



And, What are Not Pesticides

- Fertilizer
- Natural predators (birds, fish, cats, etc.)
- Mechanical devices (bug zappers, fly paper, harvesters, etc.)
- Internally taken drugs (for parasites)



Why Care About Pesticides?

- Poor practice in using pesticides is wide-spread
 - ✓ Overuse accelerates pest resistance which induces increased use
 - ✓ Significant resistance requires switching to less safe and more costly pesticides
- As potent killing agents, pesticides have intrinsic dangers attached to their use
 - ✓ Misuse kills the "good bugs" that are essential to pollination or that naturally control the "bad bugs"
 - ✓ Misuse can result in chronic sickness, birth defects, cancers, and even death
 - ✓ Misuse can seriously impair a country's ability to export to the U.S., Europe, Japan and other major markets
- The lack of quality control in the production in some developing countries represents a hazard with non-U.S. manufactured pesticides



Pesticide Impacts on Humans

- ❖ **Acute Toxicity: Immediate (acute) poisoning leading to serious sickness or death.**
- ❖ **Chronic Toxicity: effects over the long term at lower total doses.**
For example, Cancer, Parkinson's Disease, Sterility, Organ Malfunction and Birth Defects.

How do people receive dangerous doses of pesticides?

What Not to Do



Mixing pesticides with bare hands



Pouring pesticide into sprayer without protection

Spraying pesticides with no protection



The result . . .



Skin lesions



and unfocused vision

- *With an appropriate EIA, combined with monitoring during implementation, these health problems could have been avoided*

Another Problem – Obsolete Pesticides (found during 2003-2004 FAO Survey)



Expired pesticides & KOH (highly corrosive potassium hydroxide) jar

- Proper disposal starts at \$3,000 to \$5,000 per ton, depending on which pesticides are found. Highly toxic ones are much higher.
- Costly site cleanup also needed after the barrels are removed

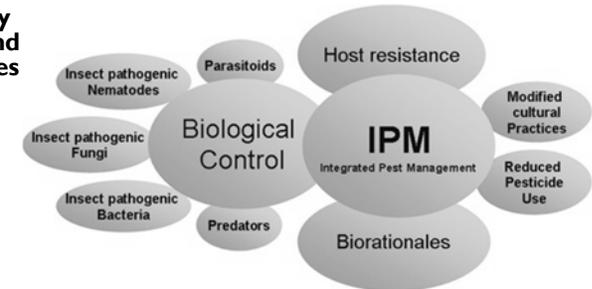
USAID's response to these dangers. . .

- 1 Agency-level policy commitment to Integrated Pest Management and SAFER USE more broadly
- 2 The "Pesticide Procedures" (Special and additional environmental review requirements under the agency's mandatory environmental procedures.)

USAID and Integrated Pest Management (IPM)

IPM aims at controlling pest populations by anticipating pest problems and preventing the damage they cause with minimal chemical use

- ❖ Respond to clearly identified pests and their consequences
- ❖ Evaluate non-pesticide management options
- ❖ Use least toxic, safest pesticides and only as actually needed



It is USAID policy to rely on Integrated Pest Management (IPM) as the framework for every activity (agricultural, health or other) that involves pesticide procurement or use

USAID Pesticide Procedures

- ❖ Applies to every project that will procure, use, or recommend for use one or more pesticides
- ❖ The environmental review required for all project or sector programs must assess the proposed pesticide use in terms of the 12 factors outlined in 22 CFR 216.3 (b)(1)(i)
 - ✓ US EPA registration status
 - ✓ Basis for selection
 - ✓ Extent to which IPM is used
 - ✓ Application methods and safety equipment
 - ✓ Toxicology and mitigation measures
 - ✓ Efficacy
 - ✓ Target vs. nontarget species
 - ✓ Environmental conditions at the location of proposed use
 - ✓ Availability of alternatives
 - ✓ Country's ability to control and regulate pesticides
 - ✓ User training
 - ✓ Monitoring provisions

USAID Pesticide Procedures

- ❖ This analysis is specialized IEE, sometimes called a **PESTICIDE EVALUATION REPORT & SAFER USE ACTION PLAN (PERSUAP)**
- ❖ The **SUAP** sets out the conditions that would govern pesticide use to assure safety.
- ❖ Based on the **PERSUAP**, use of the pesticide(s) is granted or denied, or more detailed study required.
- ❖ **Conditions specified in the SUAP must then be implemented.**

NOTE: Sometimes, a full Environmental Assessment is called for (e.g., for pesticides that are not registered by USEPA or are subject to restricted use but are judged essential)

What is “pesticide procurement or use”?

! *Be aware. . .
USAID interprets
“pesticide procurement
or use” very broadly.*

Specifically. . .

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What is “pesticide procurement or use”?

Procurement includes . .

1. *Direct purchase of pesticides*
2. *Payment in kind, donations, provision of free samples and other forms of subsidies*
3. *Provision of credit to borrowers could be procurement*
4. *Guarantee of credit to banks or other credit providers could be procurement*

Use includes . .

1. *Sale*
2. *Handling, transport, storage,*
3. *Mixing, loading, application*
4. *Disposal*
5. *Provision of fuel to transport pesticides*
6. *Technical assistance in pesticide management*

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The definition of “procurement or use” does **NOT** include. . .

- ❖ **Pesticide used in evaluation plots & other research, IF the following requirements are met:**
 - *Surface area of under 4 ha,*
 - *Supervised by researchers,*
 - *Application by trained individuals*
 - ***The treated products are not consumed by people or livestock,***
- ❖ **Technical assistance for development of host country pesticide regulatory capabilities**
- ❖ **Support for training in safer pesticide use, not involving actual application or use of pesticides.**

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Useful Web Sites

- www.epa.gov/pesticides/reregistration/status.htm
- www.pmep.cce.cornell.edu/profiles/extoxnet
- www.pesticideinfo.org (Pesticide Action Network (PAN) Pesticide Database)
- www.epa.gov/pesticides/safety/healthcare/handbook/handbook.htm (English and Spanish versions of pesticide poisoning recognition handbook)

Note: The information in these websites is useful for development professionals but does not substitute for an expert to apply it correctly

Special Topic: Subproject Review

Objective

Brief the subproject review concept and procedure and the updated Environmental Review Form. Outline the circumstances under which this process can be employed within AFR projects/programs

Format:

Presentation and Q&A.

Summary

Many USAID programs and large projects include *subprojects*—small-scale activities that are (1) carried out within—or “under the umbrella” of—a larger project, and (2) are not fully identified or designed when the larger project or program is approved.

Subprojects pose an environmental compliance challenge: Reg. 216 requires environmental review prior to activity implementation—but subprojects are not specifically defined/designed when the IEE is written.

The solution is typically that the IEE contains a *negative determination with conditions* for these activities. The condition is that a simplified EIA process is established to review subprojects and establish mitigation and monitoring conditions. This is generally only allowable if:

- The *general nature* of sub-project activities is known
- These activities generally have low or easily controllable potential adverse impacts.

The *Environmental Review Form (ERF)* is the most common instrument for implementing these simplified environmental review procedures for subprojects. The form’s instructions guide the reviewer through the subproject screening and preliminary assessment processes.

The ERF was recently updated to make appropriate use more clear, and to reflect changes in best practice over the past several years. This session will highlight the changes made.

Under the ERF screening process, activities are classified as either (a) requiring no further environmental review, or (b) requiring at least an environmental review report.

The environmental review report resembles a shorter, simplified IEE. Like the IEE, it is equivalent to a “preliminary assessment” in general EIA procedures.

Key resource

Updated *Environmental Review Form* (in this section of the Sourcebook)

USAID Environmental Procedures for Sub-Projects

What are sub-projects?

Subprojects are . . .

Smaller activities
executed under a larger
project or program
e.g. a subgrant program,
an “umbrella project”

! Subprojects
are a problem
for Reg. 216.

Why?

What is the problem?

1. Sub-projects are often not defined when the project is proposed & the IEE written

2. But the first step of any EIA (including Reg. 216) process is understanding the activity!

! 3. Reg. 216 requires review of activities **BEFORE** funds are obligated

Understand the proposed activity

Why is the activity being proposed?

What is being proposed?

Screen the activity

Based on the **nature** of the activity what level of environmental review is indicated?

How do we solve this “prior review” problem?

Two conditions must be met:

1. General nature of sub-project activities must be known.
2. These activities must have low or easily controllable potential adverse impacts.

IF these conditions are met, sub-project activities can be approved conditionally.

- That is, the IEE contains a **negative determination with conditions**
- Condition is that each sub-project is subject to simplified environmental review

What is a "simplified environmental review process"



The Environmental Review Form (ERF) is the most commonly-used subproject review instrument/process.

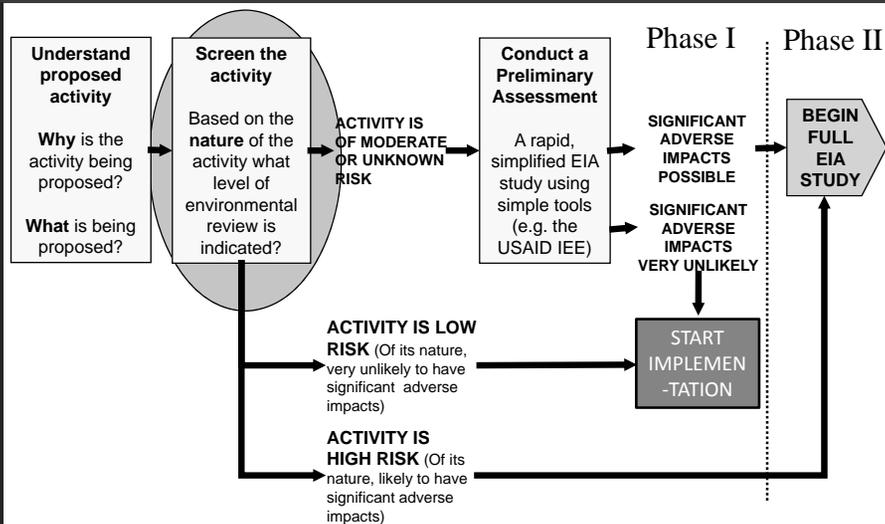
The ERF is usually completed by the IP or their subgrantee.

ERF is being updated—included in sourcebook

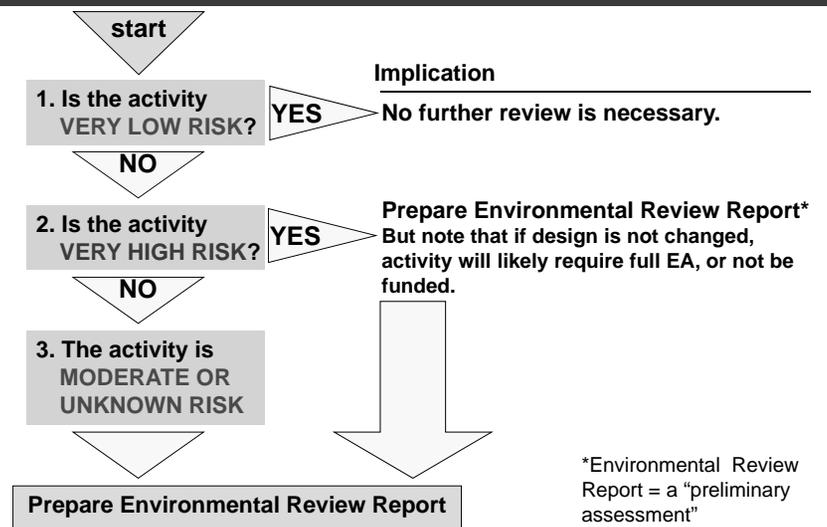
Getting started with the ERF

Sub-project review starts the same way that all EIA processes start. . .

Sub-project review starts the same way that all EIA processes start: understand, then screen



Screening under sub-project procedures



How do we screen?

The ENVIRONMENTAL REVIEW FORM (ERF) guides the process step-by-step:

- 1 LIST each activity
- 2 CHECK EACH activity against two lists
 - A list of "very low risk" activities
 - A list of "very high risk" activities
- 3 RECORD the screening result for each activity

3 possible results:
 very low risk,
 very high risk,
 moderate/unknown risk

B. Activities, screening results, and findings

Proposed activities (Provide DESCRIPTIVE listing. Continue on additional page if necessary)	Screening result (Step 3 of instructions)			Findings (Step 6 of instructions. Complete for all moderate/unknown and high-risk activities ONLY)				
	Very Low Risk	High-Risk*	Moderate or unknown risk*	Impacts are very unlikely	Impacts are unlikely	Impacts are moderate	Impacts are high	Adverse impacts are possible
1.								
2.								
3.								

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What is an activity?

✓ An activity is:

a desired accomplishment or output

E.g.: a road, seedling production, or river diversion to irrigate land

Accomplishing an activity requires a set of actions

ACTIVITY:	ACTIONS:
market access road rehabilitation	Survey, grading, culvert construction, compaction, etc. . .

! Screening is done at the activity level, NOT the action level. .

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Examples of "very low risk" & "very high risk" activities

Some very low risk activities

Education, technical assistance, or training. (except for activities directly affecting the environment)

Community awareness initiatives

Technical studies not involving intrusive sampling of endangered species or critical habitats

Some VERY HIGH RISK activities

River basin or new lands development

Planned resettlement of human populations

Penetration road building

Drainage of wetlands or other permanently flooded areas

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What about "moderate or unknown risk" activities?

By definition, IF an activity is

- NOT "very high risk"
- AND NOT "very low risk,"

THEN it IS "moderate or unknown risk"

The form lists some REPRESENTATIVE moderate risk activities

! This list is not exhaustive!

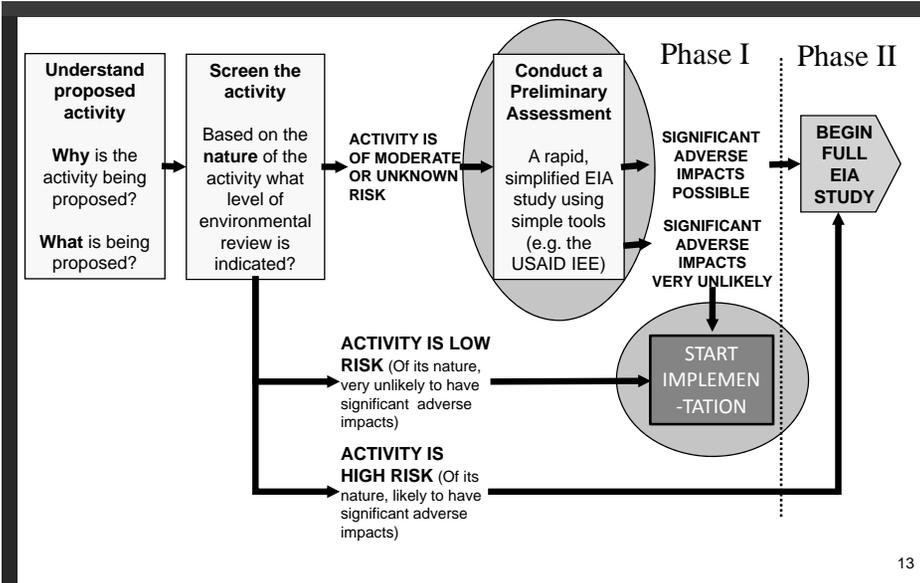
Moderate-risk activities include. . .

Small-scale infrastructure with known potential to cause environmental harm

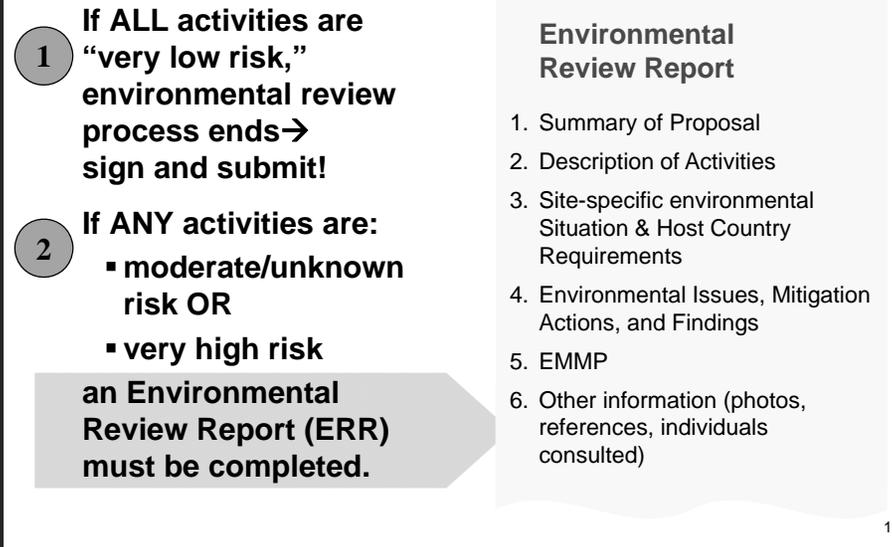
Field agricultural experimentation of MORE than 4 ha.

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After screening, what next?



After screening, 2 possibilities....



ERR Purpose

Like any preliminary assessment the purpose of the ERR is to . . .

Provide documentation and analysis that:

- Allows the preparer to recommend whether or not significant adverse impacts are likely
- Allows the reviewer to agree or disagree with the preparer's recommendations
- Sets out mitigation and monitoring for adverse impacts

What recommendations result from an ERR?

ERR Findings

For EACH:

- Moderate/unknown risk activity
- Very high risk activity

The IP recommends one of 3 findings:

ERR Findings:

1. significant adverse impacts very unlikely
2. With specified mitigation and monitoring, significant adverse impacts very unlikely
3. Significant adverse impacts are possible

Final steps: the IP. . .

RECORDS the findings

SIGNS the certification

SUBMITS the Environmental Review Form & ERR to the C/AOTR

WAITS for approval before expending any resources on the activity

B. Activities, screening results, and findings

Proposed activities (Provide DESCRIPTIVE listing. Continue on additional page if necessary)	Screening result (Step 3 of instructions)			Findings (Step 6 of instructions. Complete for all moderate/unknown and high-risk activities ONLY)			
	Very Low Risk	High-Risk*	Moderate or unknown risk*	Significant adverse impacts activity unlikely	Significant adverse impacts are very unlikely	Significant adverse impacts are likely	Significant adverse impacts are possible
1.							
2.							
3.							

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What about the signed certification?

The certification:

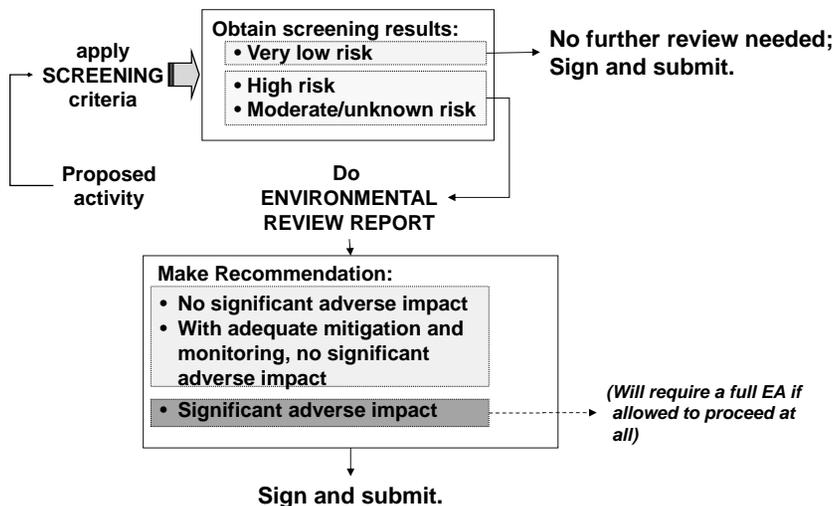
- Affirms that the ERF & ERR are correct & complete
- Commits the IP to implementing the mitigation and monitoring measures specified in the ERR
- Commits the IP to making sure that field staff, managers & partners understand environmentally sound practices for the activities in question.

Who approves?	
C/AOTR	Always
MEO	
REA	
BEO	if any screening results are "high risk"* or if there are any findings of "significant adverse impacts possible"

*should be very rare

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Overview of the process



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Adapting the ERF to project needs

The ERF is a GENERAL form. It should be adapted each time it is used.

For example:

1 Adapt the screening lists

to reflect specific sub-project activities, and specific local environmental issues.

2 Create "standard mitigation" (best practices) for specific activities.

Standard mitigation/best practices for specific activities can save the effort of drafting repetitive ERRs.

Such activities could fall into a 4th screening category: "moderate risk with standard mitigation."

Activities in this category would not require an ERR, but would be required to follow the standard mitigation measures developed by the project.

3 Don't use the ERF at all!

Project-specific checklists and other approaches are possible.

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Note to USAID Staff, Consultants & Partners Regarding the: Africa Bureau ENVIRONMENTAL REVIEW FORM & INSTRUCTIONS

Appropriate use

1. The Environmental Review Form (ERF) can only be used when and as specifically authorized by the IEE or EA governing the project or program in question. For IEEs, this authorization is made in the form of a negative determination with conditions. *Authorized use of the ERF is limited to the specific class of activities enumerated in the determination.*
2. The BEO will not clear an IEE or EA that authorizes use of the ERF unless ALL of the following are true:
 - a. **the general nature or potential scope of the activities for which the ERF will be used are known** at the time the IEE is written (e.g. small infrastructure rehabilitation, training and outreach for a specified purpose, etc.).
 - b. **these activities will be executed under a grant or subproject component of a parent project/program.** The ERF cannot be used in lieu of a request for categorical exclusion, IEE or IEE amendment when new activities/components are to be added to existing projects, programs or sector portfolios.
 - c. of their general nature, **foreseeable adverse environmental impacts are small or easily controllable with BASIC MITIGATION TECHNIQUES that can BE SUCCESSFULLY IMPLEMENTED BY FIELD STAFF.**
 - d. of their general nature, the **activities are NOT large-scale.**

There is no formal AFR standard for “small-scale activities.” Over time, AFR has developed some “rules of thumb” for activities that are BOTH small-scale AND pose very low risks of significant adverse impacts. These are used in the ERF itself: e.g. construction involving less than 10,000 sq ft total disturbed area and less than \$200,000 total cost; road rehabilitation of less than 10km total length without change to alignment or right-of-way. Activities moderately larger than these “rules of thumb” are also small-scale, but are treated by the ERF as being of moderate/unknown risk, thus requiring an environmental review report.

What does “moderately larger” mean? What about activities for which there is no “rule of thumb” built into the ERF? Absolute physical scale and funding level, physical scale relative to the surrounding built environment, population affected, and number of locations affected are among the factors relevant to determining whether a class of activities is “small scale.” The IEE must provide enough information for the BEO to assess whether the activities proposed for subproject review will be indeed be small scale within their implementation context.

Adaptation of the form

1. Text in **UNDERLINE & BLUE HIGHLIGHT** MUST be customized to the particular project/mission.
2. **Yellow** highlighted text must be reviewed and then modified, deleted or retained, as appropriate.
3. Both the form AND instructions should be generally reviewed and modified to reflect the specific project/program and implementation context.
4. The adapted form and instructions must be appended to the Initial Environmental Examination for the overall project.
5. For NRM-oriented programs (especially those involving CBNRM, ecotourism, enterprises exploiting non-timber forest products, etc.) consider adaptation and use of the Supplemental Environmental Review Form for NRM sector activities.

Questions and Guidance

General guidance on subproject review is available on the MEO Resource Center at www.encapafrika.org/meoEntry.htm. For specific questions, contact the Mission Environmental Officer or Regional Environmental Advisor. Good-practice examples of completed forms, environmental review reports and environmental management plans are available from USAID/AFR’s ENCAP project: encapinfo@cadmusgroup.com; www.encapafrika.org.

Revision history:

Major update on 24 June 2010 to clarify appropriate use, revise Env Review Report structure, and update clearance requirements. Formatting and presentation revised 17 Jan 2005. Revised April 13, 2004, to include biosafety considerations and better reflect the Supplemental Environmental Review Form for NRM sector activities.

DELETE THIS PAGE BEFORE DISTRIBUTING THIS FORM



USAID
FROM THE AMERICAN PEOPLE

XXXX

Instructions for environmental review of **XXX Program Subprojects/Sub-grants**

*Note: These instructions accompany the attached “Environmental Review Form for **USAID/XXX Program/Project** Activities” (ERF). Follow, but **DO NOT SUBMIT**, these instructions.*

Who must submit the Environmental Review Form (ERF)?

ALL Implementing Partners seeking to implement [describe qualifying activities] under the **XXX Program/Project** must complete, sign and submit the ERF to [insert name & email of C/AOTR].

Authority: Use of the ERF for these activities is mandated by the governing Initial Environmental Examination (IEE) for the **XXX Project/Program**. The IEE can be downloaded at: [insert URL].

No implementation without an approved ERF

The proposed activities cannot be implemented and no “irreversible commitment of resources” for these activities can be made until the ERF (including Environmental Review Report, if required, see Step 4, below) is cleared by the **C/AOTR**, the Mission Environmental Officer (MEO) and the Regional Environmental Advisor (REA).

NOTE: USAID may deny clearance to the ERF, or may require modification and re-submission for clearance.

Environmental management requirements resulting from the ERF

If the ERF requires preparation of an Environmental Review Report (see Step 4, below), any environmental management measures specified in the approved Environmental Review Report **MUST** be implemented.

Situations in which additional environmental review is required.

If the ERF finds that one of more of the proposed activities has the potential to cause significant adverse environmental impacts, the activities must be redesigned or an IEE or full Environmental Assessment must be conducted and approved prior to implementation.

If USAID determines that the proposed activities are outside the scope of activities for which use of this form is authorized, the activities must be redesigned or an IEE or IEE Amendment will be required.

In either situation, the C/AOTR will confer with the partner to determine next steps. Note: If an IEE or EA is required, all environmental management measures specified in the IEE or EA must then be implemented.

Step 1. Provide requested “Applicant information” (Section A of the ERF)

Step 2. List all proposed activities

In Section B of the form, list all proposed activities.

Activities are a desired accomplishment or output: e.g. seedling production, road rehabilitation, school construction. Each activities has entailed *actions*—for example, road rehabilitation includes survey, grading, culvert construction, compaction, etc. *Be aware of these entailed actions, but do NOT list them.*

List activities **DESCRIPTIVELY**. For example, “training” is not a sufficient activity listing. The listing must specify **WHO** is being trained, and in **WHAT**.

Step 3a. Screening: Identify low-risk and high-risk activities

For *each* activity you have listed in Section B of the form, refer to the list below to determine whether it is a listed low-risk or high-risk activity.

If an activity is specifically identified as “very low risk” or “high risk” in the list below, indicate this in the “screening result” column in Section B of the form.

Very low-risk activities (Activities with low potential for adverse biophysical or health impacts; including §216.2(c)(2))	High-risk activities (Activities with high potential for adverse biophysical or health impacts; including §216.2(d)(1))
<p>Provision of education, technical assistance, or training. (Note that activities directly affecting the environment. do not qualify.)</p> <p>Community awareness initiatives.</p> <p>Controlled agricultural experimentation exclusively for the purpose of research and field evaluation confined to small areas (normally under 4 ha./10 acres). This must be carefully monitored and no protected or other sensitive environmental areas may be affected).</p> <p>Technical studies and analyses and other information generation activities not involving intrusive sampling of endangered species or critical habitats.</p> <p>Document or information transfers.</p> <p>Nutrition, health care or family planning. EXCEPT when (a) some included activities could directly affect the environment (construction, water supply systems, etc.) or (b) biohazardous (esp. HIV/AIDS) waste is handled or blood is tested.</p> <p>Small-scale construction. Construction or repair of facilities if total surface area to be disturbed is under 10,000 sq. ft. (approx. 1,000 sq. m.) (and when no protected or other sensitive environmental areas could be affected).</p> <p>Intermediate credit. Support for intermediate credit arrangements (when no significant biophysical environmental impact can reasonably be expected).</p> <p>Maternal and child feeding conducted under Title II of Public Law 480.</p> <p>Title II Activities. Food for development programs under Title III of P.L. 480, when no on-the-ground biophysical interventions are likely.</p> <p>Capacity for development. Studies or programs intended to develop the capability of recipients to engage in development planning. (Does NOT include activities directly affecting the environment)</p> <p>Small-scale Natural Resource Management activities for which the answer to ALL SUPPLEMENTAL SCREENING QUESTIONS (see <i>Natural Resources supplement</i>) is “NO.”</p>	<p>River basin development</p> <p>New lands development</p> <p>Planned resettlement of human populations.</p> <p>Penetration road building, or rehabilitation of roads (primary, secondary, some tertiary) over 10 km length, and any roads which may pass through or near relatively undegraded forest lands or other sensitive ecological areas</p> <p>Substantial piped water supply and sewerage construction.</p> <p>Major bore hole or water point construction.</p> <p>Large-scale irrigation; Water management structures such as dams and impoundments</p> <p>Drainage of wetlands or other permanently flooded areas.</p> <p>Large-scale agricultural mechanization.</p> <p>Agricultural land leveling.</p> <p>Procurement or use of <u>restricted use</u> pesticides, or wide-area application in non-emergency conditions under non-supervised conditions. (Consult MEO.)</p> <p>Light industrial plant production or processing (e.g., sawmill operation, agro-industrial processing of forestry products, tanneries, cloth-dying operations).</p> <hr/> <p><u>High-risk and typically not funded by USAID:</u></p> <p>Actions affecting protected areas and species. Actions determined likely to significantly degrade protected areas, such as introduction of exotic plants or animals.</p> <p>Actions determined likely to jeopardize threatened & endangered species or adversely modify their habitat (esp. wetlands, tropical forests)</p> <p>Activities in forests, including:</p> <ul style="list-style-type: none"> ▪ Conversion of forest lands to rearing of livestock ▪ Planned colonization of forest lands ▪ Procurement or use of timber harvesting equipment ▪ Commercial extraction of timber ▪ Construction of dams or other water control structures that flood relatively undegraded forest lands ▪ Construction, upgrading or maintenance of roads that pass through relatively non-degraded forest lands. (Includes temporary haul roads for logging or other extractive industries)

(This list of activities is taken from the text of 22 CFR 216 and other applicable laws, regulations and directives)

Step 3b: Identifying activities of unknown or moderate risk.

All activities NOT identified as “very low risk” or “very high risk” are considered to be of “unknown or moderate risk.” Common examples of moderate-risk activities are given in the table below.

Check “moderate or unknown risk” under screening results in Section B of the form for ALL such activities.

Common examples of moderate-risk activities	
<p>CAUTION: If ANY of the activities listed in this table may adversely impact (1) protected areas, (2) other sensitive environmental areas, or (3) threatened and endangered species and their habitat, THEY ARE NOT MODERATE RISK. All such activities are HIGH RISK ACTIVITIES.</p>	
<p>Small-scale agriculture, NRM, sanitation, etc. (You may wish to define what “small scale” means for each activity)</p> <p>Agricultural experimentation. Controlled and carefully monitored agricultural experimentation exclusively for the purpose of research and field evaluation of MORE than 4 ha.</p> <p>NOTE Biotechnology/GMOs: No <i>biotechnology testing or release</i> of any kind are to take place within an assisted country until the host countries involved have drafted and <i>approved</i> a regulatory framework governing biotechnology and biosafety.</p> <p>All USAID-funded interventions which involve biotechnologies are to be informed by the ADS 211 series governing “Biosafety Procedures for Genetic Engineering Research”. In particular this guidance details the required written approval procedures needed before transferring or releasing GE products to the field.</p> <p>Medium-scale construction. Construction or rehabilitation of facilities or structures in which the surface area to be disturbed exceeds 10,000 sq. ft (1000 sq meters) but funding level is \$200,000 or less. (E.g. small warehouses, farm packing sheds, agricultural trading posts, produce market centers, and community training centers.)</p> <p>Rural roads. Construction or rehabilitation of rural roads meeting the following criteria:</p> <ul style="list-style-type: none"> ▪ Length of road work is less than ~10 km ▪ No change in alignment or right of way ▪ Ecologically sensitive areas are at least 100 m away from the road and not affected by construction or changes in drainage. ▪ No protected areas or relatively undegraded forest are within 5 km of the road. <p>Title II & III Small-Scale Infrastructure. Food for Development programs under Title II or III, involving small-scale infrastructure with the known potential to cause environmental harm (e.g., roads, bore holes).</p> <p>Quantity imports of commodities such as fertilizers</p>	<p>Sampling. Technical studies and analyses or similar activities that could involve intrusive sampling, of endangered species or critical habitats. (Includes aerial sampling.)</p> <p>Water provision/storage. Construction or rehabilitation of small-scale water points or water storage devices for domestic or non-domestic use. Water points must be located where no protected or other sensitive environmental areas could be affected.</p> <p>NOTE: USAID guidance on water quality requires testing for arsenic, nitrates, nitrites and coliform bacteria.</p> <p>Support for intermediate credit institutions when indirect environmental harm conceivably could result.</p> <p>Institutional support grants to NGOs/PVOs when the activities of the organizations are known and may reasonably have adverse environmental impact.</p> <p>Pesticides. Small-scale use of USEPA-registered, least-toxic general-use pesticides. Use must be limited to NGO-supervised use by farmers, demonstration, training and education, or emergency assistance.</p> <p>NOTE: Environmental review (see step 5) must be carried out consistent with USAID Pesticide Procedures as required in Reg. 16 [22 CFR 216.3(b)(1)].</p> <p>Nutrition, health care or family planning, if (a) some included activities could directly affect the environment (e.g., construction, supply systems, etc.) or (b) biohazardous healthcare waste (esp. HIV/AIDS) is produced, syringes are used, or blood is tested.</p>

Step 4. Determine if you must write an Environmental Review Report

Examine the “screening results” as you have entered them in Table 1 of the form.

- i. If ALL the activities are “very low risk,” then no further review is necessary. In Section C of the form, check the box labeled “very low risk activities.” Skip to Step 8 of these instructions.

- ii. If ANY activities are “unknown or moderate risk,” you MUST complete an ENVIRONMENTAL REVIEW REPORT addressing these activities. Proceed to Step 5.
- iii. If ANY activities are “high risk,” note that USAID’s regulations usually require a full environmental assessment study (EA). Because these activities are assumed to have a high probability of causing significant, adverse environmental impacts, they are closely scrutinized. Any proposed high-risk activity should be discussed in advance with USAID. Activity re-design is often indicated.

In some cases, it is possible that reasonable, achievable mitigation and monitoring can reduce or eliminate likely impacts so that a full EA will not be required. If the applicant believes this to be the case, the Environmental Review Report must argue this case clearly and thoroughly. Proceed to Step 5.

Step 5. Write the Environmental Review Report, if required

The Environmental Review Report presents the environmental issues associated with the proposed activities. It also documents mitigation and monitoring commitments. Its purpose is to allow the applicant and USAID to evaluate the likely environmental impacts of the project.

For a single, moderate risk activity, the Environmental Review Report is typically a SHORT 4–5 page document. The Report will typically be longer for (1) multiple activities; (2) activities of high or unknown risk; and/or (3) when a number of impacts and mitigation measures are being identified and discussed.

The Environmental Review Report follows the outline below. Alternate outlines are acceptable, so long as all required information is covered.

- A. **Summary of Proposal.** Very briefly summarize background, rationale and outputs/results expected. (Reference proposal, if appropriate).
- B. **Description of Activities.** For all moderate and high-risk activities listed in Section B of the ERF, succinctly describe location, siting, surroundings (include a map, even a sketch map). Provide both quantitative and qualitative information about actions needed during all project phases and who will undertake them. (All of this information can be provided in a table). If various alternatives have been considered and rejected because the proposed activity is considered more environmentally sound, explain these.
- C. **Site-specific Environmental Situation & Host Country Requirements.** Describe the environmental characteristics of the site(s) where the proposed activities will take place. Focus on site characteristics of concern—e.g., water supplies, animal habitat, steep slopes, etc. With regard to these critical characteristics, is the environmental situation at the site degrading, improving, or stable?

Also note applicable host country environmental regulations and/or policies. (For example, does the project require host country environmental review or permitting? Building approval? Etc.)

NOTE: provide site-specific information in this section, NOT country-level information. General information about country level conditions should already be contained in the IEE governing the **XXX project/program**.

- D. **Environmental Issues, Mitigation Actions, and Findings.** For ALL proposed activities
 - i. Briefly note the potential environmental impacts or concerns presented by the proposed activities (if any). For guidance, refer to *Africa Bureau’s Environmental Guidelines for Small-Scale Activities*; available at www.encapafrika.org/egssaa.htm.

As per the *Small-Scale Guidelines*, consider direct, indirect and cumulative impacts across the activity lifecycle (i.e. impacts of site selection, construction, and operation, as well as any problems that might arise with abandoning, restoring or reusing the site at the end of the anticipated life of the

facility or activity). Note that “environment” includes air, water, geology, soils, vegetation, wildlife, aquatic resources, historic, archaeological or other cultural resources, people and their communities, land use, traffic, waste disposal, water supply, energy, etc.)

- ii. Assess the extent to which these *potential* impacts and concerns are significant in the context of the specific activity design and site.
- iii. Set out the mitigation actions to be employed to address these issues.

Mitigation actions are means taken to avoid, reduce or compensate for impacts. Mitigation measures must be reasonable and implementable by field staff. They should be consistent with the good practice guidance provided in Africa Bureau’s Environmental Guidelines for Small-Scale Activities; (www.encapafrika.org/egssaa.htm.) Cite this or other guidance used for mitigation design.

- iv. Reach one of three findings regarding the potential impacts:

a. Significant adverse impacts are very unlikely. Of its nature, the activity in question is very unlikely to result in significant, adverse environmental impacts. Special mitigation or monitoring is not required.

Note: this conclusion is rarely appropriate for high-risk activities.

b. With implementation of the specified mitigation and monitoring, significant adverse impacts are very unlikely.

c. Significant adverse impacts are possible. That is, it is not possible to rule out significant adverse environmental impacts even given reasonable, attainable mitigation and monitoring.

In this case, USAID and the partner will consult regarding next steps. If the activity is to go forward in its current form, additional analysis in the form of an IEE or EA will be required.

Format and structure of this section. Choose a format and structure that presents the necessary information clearly and succinctly.

Table formats can be used. In the example below, the proposed activity was construction of an institutional facility on a 7500m³ plot bisected by a seasonal stream providing drainage to the local area. One potential impact of the activity was reduction of or alteration to the drainage eco-service provided by the seasonal stream.

Issue or cause for concern	Analysis	Finding and conditions/mitigation actions
<p>The seasonal stream running through the plot drains an area of at least 2 km² to the WNW.</p> <p>Diminution or alteration to this drainage “service” could result in increased upstream pooling & flooding during the rainy season, with associated property damage and increased breeding habitat for disease vectors.</p>	<p>As indicated at left, this impact only arises if the drainage “service” provided by the seasonal stream is diminished or altered in some adverse manner.</p> <p>So long as compound design maintains the existing service level and construction is managed without disruption to stream flow, actual adverse impact will be negligible or zero.</p>	<p>Per analysis at left, this potential impact is not significant, so long as the following mitigations are implemented:</p> <ol style="list-style-type: none"> 1. Total stream capacity cannot be diminished by the development of the compound. (Stream channel on average is 3m x 1m.) 2. The stream must remain substantially in the same channel and cannot, e.g., be re-routed around the property. 3. If construction will result in an interruption to stream flow, provision must be made to provide a temporary bypass. Temporary damming of stream flow is not permissible. 4. Post-construction, the stream bed within the property, including point-of-entry (e.g. via culvert under perimeter wall) must be maintained free of obstructions to flow.

E. Environmental Mitigation and Monitoring Plan (EMMP). Set out how compliance with mitigation actions will be monitored/verified. This includes specifying **WHO** will be responsible for the various mitigation actions, and **HOW** implementation of the mitigation actions will be tracked/verified.

Also specify how you will report to USAID on the implementation of mitigation actions. (You are **REQUIRED** to provide your C/AOTR with sufficient information on the status of mitigation implementation for USAID to effectively fulfill its oversight and performance monitoring role.)

Again, choose a format and structure that presents the necessary information clearly and succinctly. EMMPs are typically in table format, and often include a compliance log or “monitoring record” section that records implementation status of the various mitigation actions. The EMMP with current monitoring log can then simply be submitted to the C/AOTR with the quarterly or 6-month project report, satisfying the environmental compliance reporting requirement. .

The most basic EMMP format is

Mitigation action	Responsible Party	Monitoring/Verification Method	Monitoring Record (date, result, corrective actions taken, if any)

For additional EMMP formats and examples, see the ENCAP EMMP factsheet, available at www.encapafrika.org/ (provide exact URL.)

F. Other Information. Where possible and as appropriate, include photos of the site and surroundings; maps; and list the names of any reference materials or individuals consulted.

(Pictures and maps of the site can substantially reduce the written description required in parts B & C)

Step 6. Transcribe findings from the Environmental Review Report to the ERF

For each high-risk or unknown/moderate-risk activity, transcribe your finding from the environmental review report to the last column of Section B of the ERF.

Step 7. Sign certifications (Section C of form.)

Step 8. Submit form to USAID C/AOTR. Be sure to attach the Environmental Review Report, if any.



Environmental Review Form for **XXX Program** subprojects/subgrants

Follow, but do not submit, the attached instructions.

A. Applicant information

Organization	Parent grant or project
Individual contact and title	Address, phone & email (if available)
Proposed subproject/subgrant (brief description)	Amount of funding requested
	Period of performance
	Location(s) of proposed activities

B. Activities, screening results, and findings

Proposed activities (Provide DESCRIPTIVE listing. Continue on additional page if necessary)	Screening result (Step 3 of instructions)			Findings (Step 6 of instructions. Complete for all moderate/unknown and high-risk activities ONLY)		
	Very Low Risk	High-Risk*	Moderate or unknown risk*	significant adverse impacts are very unlikely	With specified mitigation, significant adverse impacts are very unlikely	Significant Adverse impacts are possible
1.						
2.						
3.						
4.						
5.						
6.						
7.						
8.						

*These screening results require completion of an Environmental Review Report

C. Certification:

I, the undersigned, certify that:

1. The information on this form and accompanying environmental review report (if any) is correct and complete.
2. Implementation of these activities will not go forward until specific approval is received from the C/AOTR.
3. All mitigation and monitoring measures specified in the Environmental Review Report will be implemented in their entirety, and that staff charged with this implementation will have the authority, capacity and knowledge for successful implementation.

(Signature) _____ (Date) _____

(Print name) _____ (Title) _____

Note: if screening results for *any activity* are “high risk” or “moderate or unknown risk,” this form is not complete unless accompanied by an environmental review report.

BELOW THIS LINE FOR USAID USE ONLY**Notes:**

1. For clearance to be granted, the activity **MUST** be within the scope of the activities for which use of the ERF is authorized in the governing IEE. **Review IEE before signature.** If activities are outside this scope, deny clearance and provide explanation in comments section. The Partner, C/AOTR, MEO and REA must then confer regarding next steps: activity re-design, an IEE or EA.

2. Clearing an ERF containing one or more findings that **significant adverse impacts are possible** indicates agreement with the analysis and findings. It does NOT authorize activities for which “significant adverse impacts are possible” to go forward. It DOES authorize other activities to go forward. The Partner, C/AOTR, MEO and REA must then confer regarding next steps: activity re-design, an IEE or EA.

Clearance record

C/AOTR <input type="checkbox"/> Clearance given <input type="checkbox"/> Clearance denied	(print name)	(signature)	(date)
USAID/XXXX MEO <input type="checkbox"/> Clearance given <input type="checkbox"/> Clearance denied	(print name)	(signature)	(date)
Regional Env. Advisor (REA) <input type="checkbox"/> Clearance given <input type="checkbox"/> Clearance denied	(print name)	(signature)	(date)
Bureau Env. Officer (BEO)* <input type="checkbox"/> Clearance given <input type="checkbox"/> Clearance denied	(print name)	(signature)	(date)

C/AOTR, MEO and REA clearance is required. BEO clearance is required for all “high risk” screening results and for findings of “significant adverse impacts possible. The BEO may review ”

Note: if clearance is denied, comments must be provided to applicant (use space below & attach sheets if necessary)

Note to individuals adapting the:

*** Supplemental Environmental Review Form for NRM Activities
for use on a particular program/activity:**

- This supplement is oriented around major resource/issue clusters and asks “leading questions” about the actual potential for unintended harmful impacts, especially of CBNRM/ ecotourism activities.
- **Underlined & blue** highlighted text **MUST** be modified to reflect project and mission name
- Questions should be modified to respond to the needs of individual projects. This is intended to be a “living” document subject to adaptation.

DELETE THIS PAGE BEFORE MODIFYING/DISTRIBUTING THIS FORM

Special Topic

Environmental Compliance Best Practice for “Tricky Activities” + General Reg. 216 Discussion

Technical presentation followed by Q&A session

Summary

While Reg. 216 enumerates classes of activities eligible for categorical exclusions, it also states that categorical exclusions do not apply if “at any time in the design, review or approval of the activity ... it is determined that [it] ... is subject to the control of USAID and may have a significant effect on the environment.” (22CFR216.2(c)(3)).

For this reason, a number of typical USAID-funded activities are NOT eligible for categorical exclusions—even though they fall within a general class of activities that *are* eligible.

In these and other typical activities, USAID’s “knowledge and control” may be less than complete. What does this mean for the development and implementation of appropriate IEE conditions?

This session explores these questions via a set of brief case studies and participatory discussion.

The discussion of “tricky activities” will be followed by a general Reg. 216-focused Q&A session that will allow participants to raise and discuss specific issues, challenges or insights related to IEE development.

Objectives

Understand why categorical exclusions often do not apply to activities like policy development, trade, SME support, and private sector credit support, as well as the principles that inform the conditions that should be applied to these types of activities.

Provide an opportunity for open discussion of Reg. 216-related questions or concerns in the context of IEE development.

Environmental Compliance Best Practice for “Tricky Activities”

“Tricky activities” . . .

For many projects/activities:

- ❖Categorical exclusions do not apply, even if the activity is of the right general type
- ❖USAID shares or has indirect responsibility for adverse impacts—but very limited control over the actors directly responsible.

Getting mitigation for these “tricky activities” right is critical to achieving ESDM and minimizing USAID’s liabilities.

Policy development & implementation ▪
 credit enhancement ▪
 SME support ▪ trade promotion ▪ value-chain strengthening ▪
 etc.



. . . can be a headache

Problem: Resolving determinations and conditions for these “tricky activities” can take time, and lead to frustration and increased transaction costs on the parts of missions and partners.



But . . .
difficulties can be minimized or eliminated when a few basic “tricky activity principles” are understood.

This session:

Explores these principles with mini-case studies based on actual programs/IEEs

Illustrates emerging best practice/Agency expectations.

Case 1: Policy implementation and institution strengthening

The project:

Building government capability to transparently manage natural resources

Context:

High-level policy commitment to increased extraction to fund national (re-)development

Components:

1. **Senior LT technical expert:**
 - advise the ministry of mining/minerals/energy on mineral concession best practice
 - assist with concession negotiations as requested,
 - supervise nat'l cadastre implementation and legal reform work and production of new regulations.
 - Initially will have co-signature authority on concession awards.
2. **Complementary STTA for expert review of draft regulations and specific concession agreements.**
3. **Complementary training for ministry staff**

The ESDM/ env compliance issue

Reg. 216 provides for a categorical exclusion for “education, technical assistance or training programs, except to the extent such programs include activities directly affecting the environment”*

Should the Catex apply?

*text in red applies to all activities considered for categorical exclusion

Case 1:
Policy implementation and institution strengthening (cont'd)

Building government capability to transparently manage natural resources

No!

The IEE found:

"The significant and often irreversible adverse environmental impacts of mining expansion and the substantial influence that the project will have over the policies under which and the process by which this expansion occurs render the TA ineligible for a categorical exclusion."

However, the IEE noted. . .

1. the policy decision to expand and promote the mining sector comes from the highest levels of the national government not the project.
2. the project is intended to strengthen environmental safeguards as compared to mining expansion undertaken without USAID assistance.

Result:
 ND w/conditions intended to "maximize the project's greening influence on mining expansion to the fullest extent practicable."
 > Full harmonization of all products/guidance with national env. requirements (or accepted env. management good practice, where requirements are lacking)
 > Systems of monitoring and enforcement to fully integrate environmental requirements pertaining to licenses, concessions and regulations
 > USAID-funded outside review of concession applications and investment plans to include expert reviews of EIAs, EMMPs. Where deficient, a recommendation of remedy or rejection is required.

Case 2:
Policy implementation and institution strengthening

The project:
Streamlining business start-up and permitting approvals for land use changes
Context:
 MCC Threshold project designed and implemented by USAID
Components:

- > Put in place administrative structures/procedures needed to implement reforms already adopted by national government; capacity building support to government departments involved
- > Public awareness campaigns
- > Establish one-stop licensing centers and start to migrate application processes online
- > Provide business development services via one-stop centers
- > Public awareness and how-to guides

The same ESDM/ env compliance issue

Reg. 216 provides for a categorical exclusion for "education, technical assistance or training programs, except to the extent such programs include activities directly affecting the environment"*

Should the Catex apply?

*text in red applies to all activities considered for categorical exclusion

Case 2:
Policy implementation and institution strengthening (cont'd)

Streamlining business start-up and permitting approvals for land use changes

No! (but a slightly harder call)

The IEE found:

The project has the "potential for significant environmental impacts deriving from the enterprise creation, land development, construction and/or overall private sector expansion it is intended to stimulate."

However, the IEE noted. . .

"it is not possible to predict the particular enterprises and land development activities that will result, nor in most cases will it be possible to ascertain whether a particular enterprise would have been launched or a particular land development undertaken in the absence of the project ... This significantly limits USAID's direct responsibilities for these impacts and the range of feasible actions to address them.

Result:
 ND w/conditions
 "The project implementer must develop for COR and REA approval a strategy for:

- > Informing licensees/permittees of environmental compliance obligations under national law at the time of license/permit award
- > Incorporate and promote cleaner production approaches in TA for enterprise efficiency and good management
- > Include screening for environmental compliance and for enterprises that represent high environmental risks.

Case 3:
Credit enhancement/private sector support

The project:
Enhancing credit availability to SMEs and strengthening agro-processing
Vehicle:
 DCA Loan Portfolio Guarantee for \$13mn SME loan program by a commercial bank
Components:

- > Make local currency loans available to SMEs under more favorable terms than are currently available from commercial financial institutions.
- > Provide credit in rural areas to small and medium enterprises (SMEs) and for seasonal agricultural activities.

(Neither USAID nor the IP reviews or approves individual loans.)

The ESDM/ env compliance issue

Reg. 216 provides for a categorical exclusion for "support to intermediate credit institutions" when USAID does not reserve the right to review and approve individual loans

Should the Catex apply?

Case 3:
Credit enhancement/private sector support (cont'd)

Enhancing credit availability to SMEs and strengthening agro-processing

And again—no.

The general premise behind DCA credit enhancement is that the activities supported would not otherwise be financed. Thus, when these activities may have significant environmental impacts, categorical exclusions cannot apply.

In this case, the expansion of private sector activity that is the intended result of this project has potential, perhaps significant, adverse environmental impacts

However, USAID does not have direct control over the loan recipients but only over the general parameters and conditions of the loan-making process.

Result:

ND w/conditions:

The IP and the COR shall assure that the recipient bank will have the capacity to and shall fully implement an environmental due diligence process which:

- bars funding to activities for which funding is prohibited under the Sections 118 & 119 of the Foreign Assistance Act;
- bars funding for “classes of action normally having a significant effect on the environment (per 22 CFR 216.2.d) pending an Environmental Assessment acceptable to USAID and USAID’s approval of that assessment, and
- ascertains compliance with national environmental requirements as a condition for loan-making.

Case 4:
Integrated production and processing support

The project:

Small- and medium-scale aquaculture production and processing promotion

Concept:

Direct TA and GDAs to promote small- and medium-scale freshwater aquaculture and fish processing for rural food security and income enhancement.

Components:

1. Train local extensionists in business development and aquaculture techniques.
2. Extensionists provide TA to smallholder producers.
3. Support formation of new processing MSMEs.
4. Grow and provide fingerlings; sell quality fish feed and other inputs at a profit.

The ESDM/ env compliance issue

Reg. 216 provides for a categorical exclusion for “education, technical assistance or training programs, except to the extent such programs include activities directly affecting the environment”

Should the Catex apply to components 1-3?

Case 4:
Integrated production and processing support (cont'd)

Small- and medium-scale aquaculture production and processing promotion

And finally—no.

The IEE found:

Training and extension/technical assistance activities contribute to the project’s goal of expanding and intensifying aquaculture activities. This has potential for, perhaps significant, adverse environmental impacts. A Categorical Exclusion cannot apply.

However, the IEE notes:

- experience shows that small- and medium-scale aquaculture impacts are avoidable or controllable with appropriate siting and application of basic good environmental management principles; and
- USAID’s direct control over entities responsible for impacts (and thus USAID’s direct responsibility) is limited, as are measures feasible to address impacts.

Result: ND w/conditions for the project in its entirety:

1. Training and TA will incorporate (1) sound environmental management practices per the *Small Scale Guidelines* and (2) host-country environmental requirements.
2. A commitment to sound environmental management, compliance and cleaner production will be incorporated in all GDA agreements and in programming and actions.
3. Existing aquaculture or processing facilities receiving direct USAID support will be reviewed to identify any significant deficiencies in basic environmental management or compliance with host country environmental requirements, and these deficiencies promptly corrected.
4. An ERF-based subproject review process is required for (1) any new aquaculture or processing facilities, and (2) for significant expansion of existing facilities, where funded or partially funded by USAID.

Special Topic

Planning and Monitoring Environmental Compliance in Non-Permissive Environments

Objective

Explain what we mean by a “non-permissive” environment and how environmental planning and monitoring can be different from typical development situations in that environment. Present options for managing in a non-permissive situation and introduce some tools and resources the Bureau for Democracy, Conflict, and Humanitarian Assistance (DCHA) has found useful in responding to environmental planning and monitoring needs in non-permissive environments.

Format:

Presentation and Q&A.

Summary

This session summarizes the challenges for environmental compliance, monitoring and oversight in non-permissive environments. Non-permissive environments are ones with a heightened level of risk often due to factors such as limited accessibility, inadequate infrastructure, or governmental and/or military law enforcement concerns. Suggestions are made on how to manage projects in non-permissive situations and on considerations for risk mitigation, including environmental impact mitigation. Specific examples are provided on methods for streamlined assessment of environmental risks and models for monitoring in non-permissive situations. Four tools/guidances are provided to assist.



Planning and Monitoring Environmental Compliance in Non-Permissive Environments



Overview

- What are non-permissive environments?
- The environmental baseline
- USAID/DCHA examples
- Environmental monitoring
- Available tools and guidance



What do we mean by non-permissive environments?

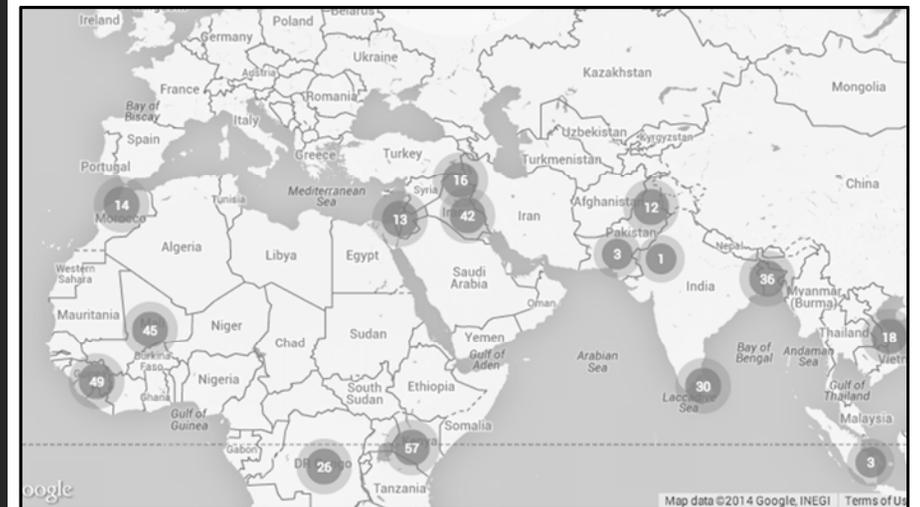
- In general a non-permissive environment is one in which some level of heightened risk is assumed due to a breakdown in host country intent or capability to provide assistance
 - May be due to reduced accessibility, infrastructure, socio-political, governmental, and/or military-law enforcement concerns



Source: Joint Chiefs of Staff, Dictionary of Military Terms (Joint Pub 1-02 408)



USAID is working in 555 conflict or crisis locations



Map data ©2014 Google, INEGI Terms of Use

How is the non-permissive environment different from typical development scenarios?

- Field level differences:
 - More dynamic & rapidly evolving
 - Less predictable
 - High stress
 - Poorer social cohesion
 - High political Interest
- Operational differences:
 - Security issues
 - Non-presence & limited oversight
 - Multi-disciplinary
 - Higher turnover of staff
 - Multiple funding streams

Some questions to consider:

- **Question 1:** How is the environment vulnerable in projects?
- **Question 2:** How is the environmental baseline relevant for non-permissive projects?
- **Question 3:** How are the conditions for environmental assessment different in the non-permissive context compared with typical development projects?

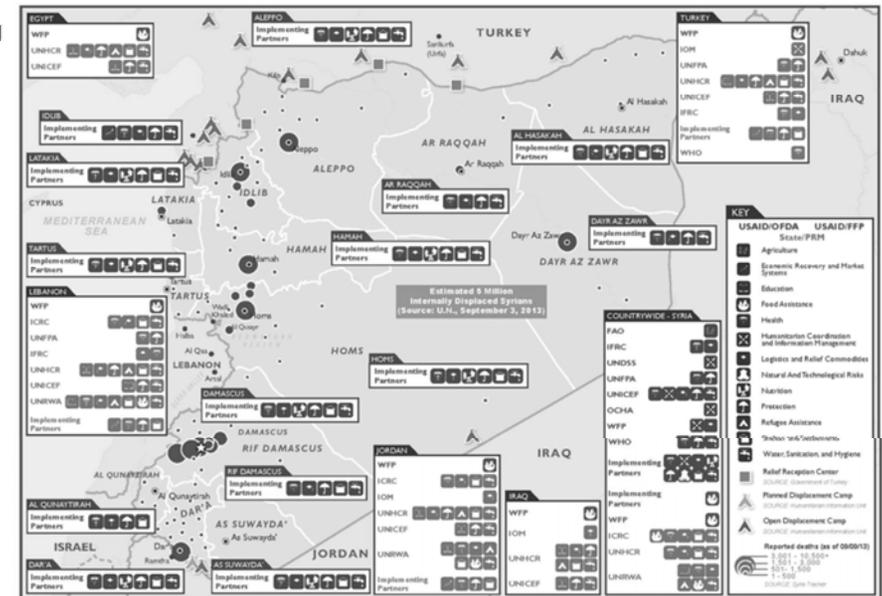


Environment in non-permissive situations

- Environment is vulnerable to impacts of the crisis
 - Displaced populations may increase demand for natural resources such as fuel wood and water, contributing to deforestation and water scarcity
- Environmental conditions may contribute to the crisis
- Resource scarcity and competition can exacerbate existing social or political tensions



- Environmental situation may be unknown and difficult to monitor



Syria: Limited access, rapid environmental assessment through literature review.

- **Crisis impacts on the environment**
 - Displaced populations
 - Infrastructure damage
 - Explosive remnants
 - Deterioration of water and sanitation services
 - Reduced agriculture and livestock based livelihood systems
- **Environment can exacerbate crisis**
 - Loss of livelihoods
 - Loss of water and sanitation systems, on top of existing scarcity
 - Lack of debris and waste management
 - Climate change stressors

How do you manage projects in a non-permissive situation?

- You manage the project the same way you manage the environmental compliance
- Integration is essential



Multi-directional environmental assessments in non-permissive settings look at:

- **Impact of the project on the environment**
 - *What are the human health and water quality impacts of a latrine construction projects?*
- **Impact of the environment on the project**
 - *How might future changes in rainfall patterns effect agricultural activities?*
- **Impact of the crisis on the environment**
 - *How have sanitation provisions changed with the crisis?*
- **Impact of the environment on the crisis**
 - *How might degraded soils exacerbate socio-cultural tensions?*

Risk Mitigation

Risk mitigation activities need to be prioritized

- Prioritize risk mitigation by life-threatening risks, then livelihood threatening risks
- But other easy-to-implement measures to reduce risks should be carried out as well
- Don't just mitigate in the order measures were identified in an IEE or EA

Is USAID Environmental Impact Assessment Different in a Non-Permissive Context?

Yes and No

Non-permissive situations can depart from standard USAID programs due to:

1. Compressed time table for project design, award and implementation
2. Difficulty of field verification for M&E
3. Diversity of funding sources
4. Not enough lead time to build community management capacity

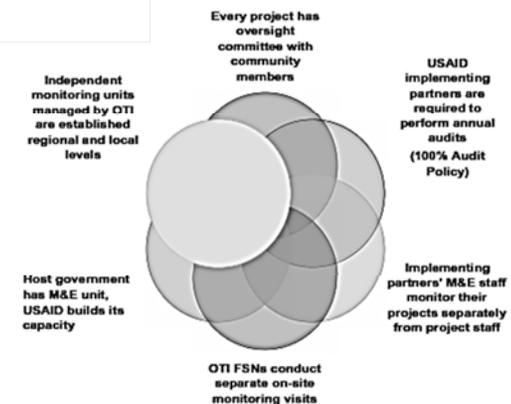
- The Bureau for Democracy, Conflict, and Humanitarian Assistance (DCHA) has a 'bag of tricks' to respond to non-permissive scenarios which allows quick responses
- Key to effectively implementing environmental compliance in these situations is:
 - 1) Integration
 - 2) Preplanning
 - 3) Responsiveness
- DCHA's Office of Transition Initiatives (OTI) is often involved in these situations and has developed a helpful approach to dealing with them

Case study: OTI window of opportunity in Syria

- Goal: To build foundation for transition of conflict -> peace, authoritarianism -> more inclusive government
- Context: Absent local government, "window of opportunity" for clean up campaign
- **Timing was critical** – had to be approved & started in a couple of days
- **Responsive approach**: mobilized necessary environmental & OTI staff to develop IEE amendment & EMMP over weekend



OTI Monitoring Model



Environmental Monitoring in Non-Permissive Situations

- Monitoring can be challenging because:
 - Remote, insecure, or inaccessible sites
 - Short time frames
 - Lack of staffing or expertise
 - Attribution of impacts
- Types of strategies:
 - Independent monitoring units (IMU)
 - Later follow up (more expensive)
 - Integrate environmental indicators into project monitoring during budgeting phase

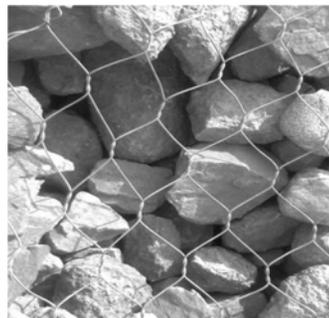


Example: Independent Monitoring in High Threat Environments

- Provide immediate feedback either during implementation or following completion of an activity
- Report observations, with photos > USAID and project staff can verify and identify other monitoring issues and evaluate
- Provide impartial assessment of projects, verify outputs, gather data on outcomes (e.g., community sentiment), & deter/identify fraud, waste, abuse
- Could be used to make adjustments to implementation methods and provide guidance on best practices moving forward

Example: from an Independent Monitoring Unit (IMU) report

- Report *“observed that the quality of materials used in the scheme was good, mountain quarry and available rounded stones in the nearby stream were used ...”*
- IMU may not have ideal skill set for complete monitoring, but with instruction, can collect the right kinds of info to be useful
- For example, detailed explanation and photos allowed project staff to identify issues that the IMU did not recognize
 - Rocks collected for a flood protection wall were extracted from a nearby river. This may have been against local law.
 - Photos showed that the wall had large gaps which may limit its effectiveness.



Wire mesh size is visible in the picture

Tools and Guidance

Resources available:

- The Sphere Handbook
- Rapid Environmental Assessment (REA)
- Green Recovery & Reconstruction: Training Toolkit for Humanitarian Aid (GRRT)
- Joint UN Environmental Program/OCHA Environment Unit (JEU)

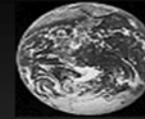


The Sphere Handbook

- Voluntary initiative of humanitarian agencies
- To improve humanitarian assistance and accountability of humanitarian actors
- Consists of a *Humanitarian Charter and Minimum Standards* in humanitarian Response for
 - Water supply, sanitation & hygiene
 - Food security and nutrition
 - Shelter, settlement & non-food items



<http://www.sphereproject.org/handbook/>



Rapid Environmental Impact Assessment for Disasters



**REA Developed by Charles Kelly,
Funded by USAID OFDA & CARE Intl.**

Charles Kelly -- havedisastercallkelly@gmail.com

Green Recovery & Reconstruction: Training Toolkit for Humanitarian Aid (GRRT)

- Developed by WWF & American Red Cross post 2004 Tsunami to integrate environment into recovery & reconstruction
- Training program designed to increase awareness & knowledge of environmentally sustainable disaster response.
- Ten training modules, include:
 - Project Design, Monitoring and Evaluation
 - Environmental Impact Assessment Tools and Techniques
 - Green Guide to Construction



For more info contact Anita Van Breda Anita.VanBreda@WWFUS.ORG

Joint UNEP/OCHA Environment Unit (JEU)

Joint UN Environmental Program/UN Office for the Coordination of Humanitarian Affairs



- Helps UN Member States to prepare for and respond to environmental emergencies.
- Have trainings & guidance, e.g.:
 - Environmental Emergencies
 - Integrating environmental issues into humanitarian action
 - Disaster waste management

Point of contact: Wendy Cue, Chief, Environmental Emergencies Section, cue@un.org
<http://www.unocha.org/what-we-do/coordination-tools/environmental-emergencies>



Questions?

For more information on DCHA and tools for non-permissive/crisis environmental compliance, contact:

Erika Clesceri

DCHA Bureau Environmental Officer

eclesceri@usaid.gov

202.712.0453

Emily Kunen

Post-Crisis Environmental Advisor

ekunen@usaid.gov

202.712.0615

Special Topic

USAID Life of Project Environmental Compliance Milestones

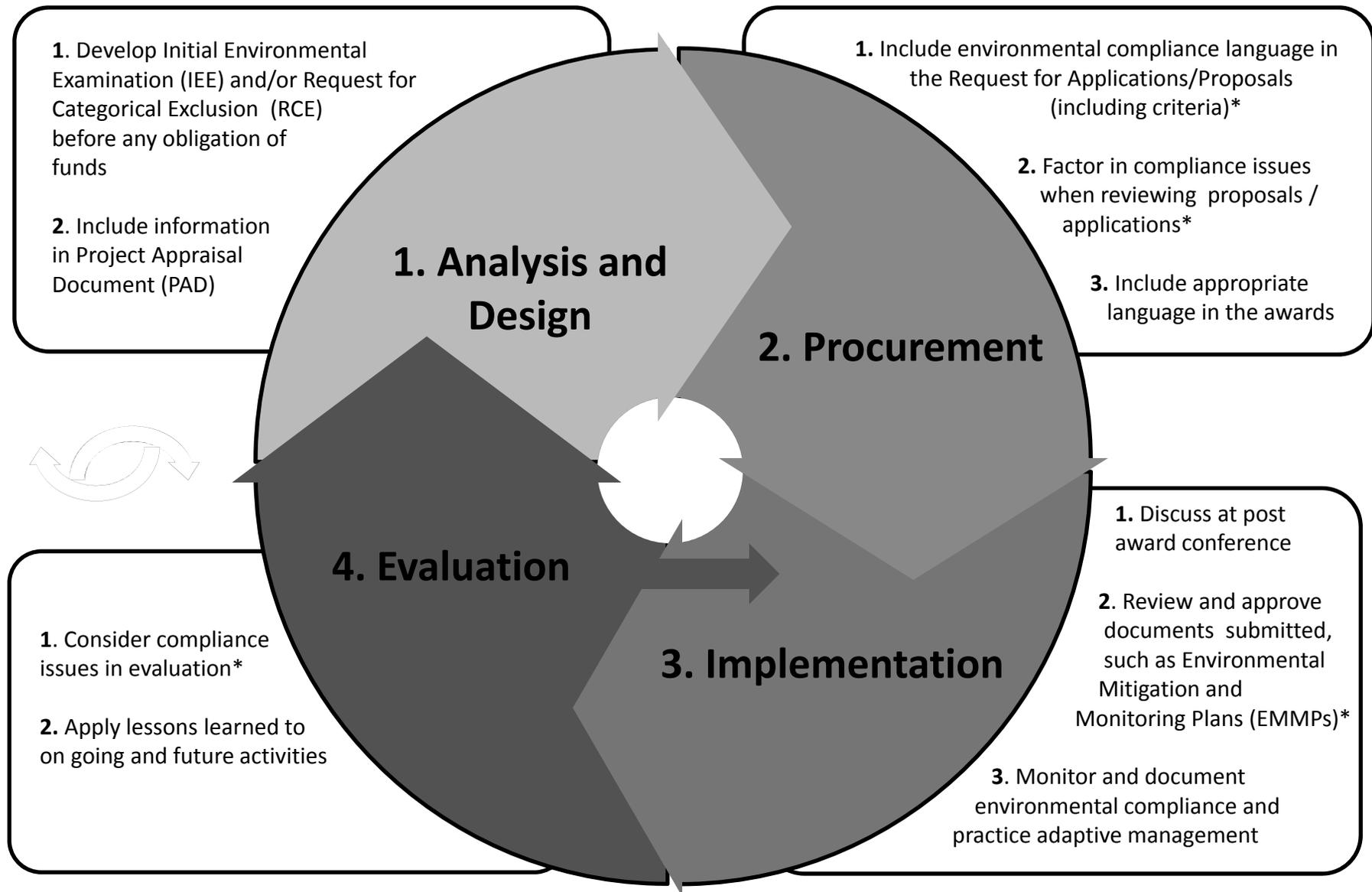
Objective

Explain how the life-of-project cycle and environmental compliance procedures integrate into all USAID programming from Analysis & Design, through Procurement, Implementation and Evaluation.

Summary

Using a visual aid to assist, this session discusses environmental compliance factors and considerations in each phase of USAID's programming and project implementation cycle. It includes the point at which Adaptive Management could be/should be practiced to improve outcomes and inform future planning.

USAID Life of Project Environmental Compliance Milestones



* only applies to projects with a negative determination with condition or positive determination



Review DRAFT: 22 July 2011

Download this factsheet at:
www.encapfrica.org/meoentry.htm
[see mitigation and monitoring topics]

To submit comments or for more information, email
the ENCAP core team at:
encapinfo@cadmusgroup.com

ENCAP FACTSHEET
ENVIRONMENTAL MITIGATION &
MONITORING PLANS (EMMPs)

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(M&E) Officers, and consultants who may be engaged to develop EMMPs for USAID projects in Africa.

2. WHAT IS AN EMMP?

An EMMP is a document that sets out:

- 1. Mitigation actions. The EMMP specifies the actions that will be taken to satisfy the IEE or EA conditions.
2. Monitoring actions. The EMMP sets out the indicators or criteria that will be used to monitor (1) whether the mitigation actions have been implemented, and (2) whether they are effective and sufficient.
3. Responsibility and schedule for mitigation, monitoring, and reporting. The EMMP specifies the parties responsible for these actions and the schedule for these tasks.

I. INTRODUCTION

Environmental Mitigation and Monitoring Plans (EMMPs) are now required for most USAID-funded projects in Africa.

Specifically, EMMPs are required when the Reg. 216 documentation governing the project is either an IEE or an EA that imposes conditions on at least one project activity. (See box at right if these terms are unfamiliar.)

Responsibility for developing the EMMP usually lies with the implementing partner (IP), though it may be assigned to the C/AOTR. In either case, the responsible party can develop the EMMP directly, or engage a consultant. (The C/AOTR could also seek assistance from the Mission Environmental Officer (MEO).)

This factsheet describes the EMMP concept and its role in life-of-project environmental compliance for USAID-funded activities. It provides practical guidance and examples to inform EMMP development. It is intended for IPs, A/COTRs, MEOs, Monitoring and Evaluation

USAID's Environmental Procedures

USAID's mandatory environmental procedures apply to all USAID-funded and USAID-managed activities. They consist of 22 CFR 216 ("Reg. 216") and related mandatory provisions of USAID's Automated Directives System (ADS)—especially, but not only, ADS 201.3.12.2.b and 204).

In summary, these procedures mandate (1) a pre-implementation environmental impact assessment (EIA) process, and (2) implementing and reporting on any environmental conditions (required mitigation measures) that result from this review.

The pre-implementation environmental review is documented in a Request for Categorical Exclusion (RCE), Initial Environmental Examination (IEE) or an Environmental Assessment (EA). Each of these Reg. 216 documents must be approved by both the Mission Director and Bureau Environmental Officer (BEO). Most IEEs and all EAs impose conditions on some or all of the activities they cover.

For more information see ENCAP's USAID Environmental Procedures Briefing for Mission Staff.

EMMPs may also include a log of monitoring results and budget estimates for mitigation and monitoring activities.

EMMPs may also be called *Mitigation and Monitoring Plans* and *Environmental Management Plans*.

3. WHY EMMPs?

EMMPs provide a basis for systematic implementation of IEE and EA conditions: In addition to establishing responsibilities and schedules, EMMPs are a vehicle for translating IEE conditions (which are often very general) into specific, implementable, verifiable actions. For example:

An IEE for a water and sanitation project may require that wells and latrines be sited “consistent with good practices.”

The EMMP would specify the site-specific standards that the project must follow, e.g., wells must be located at least 50 meters from any pesticide or chemical store, and 25m from any cesspool, leaching pit, septic field, latrines, poultry yards, or livestock watering point..

EMMPs also provide a framework for environmental compliance reporting. (See section 5)

Without EMMPs, experience shows that IEE and EA conditions will not be implemented systematically, if at all. This defeats the purpose of the pre-implementation EIA process as documented by the IEE or EA, increasing the probability that well-intentioned activities will result in needless adverse impacts on beneficiaries, communities, environmental resources and ecosystems.

For USAID activities, failure to implement IEE or EA conditions puts the activity in non-compliance. The AOTR or COTR is REQUIRED to compel compliance or end the activity.

4. HOW ARE EMMPs REQUIRED?

EMMPs are not specifically required by Reg. 216 or the ADS. However, they ARE required by (1) contract and award language, (2) the IEE and/or (3) A/COTR technical direction:

- Increasingly, contracts and awards specifically require that an EMMP be developed and implemented. (This is part of a broader trend within USAID to use “best practice” environmental compliance language in solicitations and awards.)
- Most recent and all new sector-level IEEs (e.g. an IEE covering a Mission’s health or economic growth portfolio) require that an EMMP will be developed for each individual project.
- For new project-level IEEs, the BEO will typically require that an EMMP be submitted as part of the

IEE. If not, the IEE will require that the EMMP be submitted with the project workplan or performance management plan (PMP).

- For projects conducted under older IEEs, A/COTRs can issue technical direction requiring EMMPs.

In addition, Title II Cooperating Sponsors are required to develop IEEs by the Agency’s MYAP guidance and these IEEs must include an EMMP.

5. EMMP FORMATS

EMMPs are usually in table form. Critical elements of a **basic EMMP** are captured in the illustrative format below. For detail, see examples in the Annex to this Factsheet.

EMMP for Project XXX

Person Responsible for Overseeing EMMP:
[name, contact information]

Activity I: [name of activity] [briefly describe activity & summarize potential adverse environmental impacts]			
IEE or EA Condition (reproduced or summarized from the IEE or EA)	Mitigation Specific actions to be taken to comply with the condition. (if an IEE or EA condition is already specific to the project/activity and implementation actions self-evident, this “translation step” can be omitted)	Monitoring How will the project verify that mitigation is being implemented and is both effective and sufficient?	Timing and Responsible Parties Who is responsible for mitigation, monitoring, reporting? Timing/frequency of these actions

[add rows for additional conditions]
[repeat table for additional activities]

If an EMMP will contain cost information, a separate column can be added. An example of an EMMP with a monitoring log, where monitoring results can be recorded, is included in the Annex.

More advanced EMMP formats can serve as both a detailed monitoring log and a management/field guide to implementing mitigation. EMMP example #3 (Small Facilities Construction) in the Annex is an example of such an “advanced format.” Such advanced formats are not required, but in some circumstances they can make it easier for project management and field supervisors to oversee and implement mitigation.

6. STEPS IN EMMP DEVELOPMENT

EMMP development consists of 5 basic steps.

1. Review the governing IEE or EA to understand the conditions that apply to your project.
2. Translate IEE or EA conditions into specific mitigation actions.
3. Specify monitoring measures.
4. Specify timelines and responsible parties.
5. Determine who will have overall responsibility for EMMP implementation/environmental compliance.

Each is addressed below.

1. Review the governing IEE or EA to understand the conditions that apply to your project.

If the IEE governing your project is sector-level, the IEE usually describes activities in a high-level, general way without matching or “mapping” them to particular projects.

For example, your project might be working with agro-processors to improve product quality. In the IEE, this might be described as a “value chain strengthening” activity.

In this case, your first step in EMMP development is to match the activities in the project SOW to the general activity descriptions in the IEE, and on that basis determine which IEE conditions apply to your project activities

Even if you are developing a project-specific IEE with annexed EMMP as a package for submission (see Section 9), re-read the IEE conditions you have developed before beginning development of the EMMP.

2. Translate IEE conditions into specific mitigation actions.

(see resources for mitigation and monitoring design, at end.)

If an IEE condition is well-specified, the necessary actions to implement the condition may be self evident. However, often IEE/EA conditions are very general and they must be “translated” into well-specified, implementable, and verifiable mitigation actions.

This translation is a key purpose of the EMMP, and a key step in developing one.

Implementation, monitoring, and reporting on IEE conditions will be easier if mitigation measures are as specific as possible.

Factors to consider in **translating conditions to actions** include:

- the specifics of the site or sites
- the extent of project control

Site specifics. IEE conditions are often written without knowledge of the specific project site. You need to determine *how* and *whether* the conditions apply given the specifics of your site.

For example, an IEE might impose the following conditions on construction activities:

- a. *No construction permitted in protected areas or relatively undisturbed ecosystem areas.*
- b. *Construction & facilities operation may not result in significant adverse impacts on ecosystem services*

If your proposed site is in a peri-urban area already undergoing and zoned for development, condition (a) poses little concern.

But what if a seasonal stream draining several square kilometers traverses your site? In that case, a major “ecosystem service” provided by your site is drainage. So to comply with the IEE, your design must assure that there is no reduction in stream capacity or alteration to local drainage patterns.

Extent of Project Control. Often IEE conditions are phrased as “to the greatest extent practicable,” or “to the degree feasible the project shall. . .”

This language is used to accommodate different levels of control over on-the-ground activities.

For example, the IEE for an agricultural project may require that an IP “assure availability, and require use and maintenance of appropriate personal protective equipment specified by the pesticide label to the greatest degree feasible.”

What is “feasible” will depend on the level of project control over on-the-ground crop protection activities. For example:

- On a project-run demonstration farm, that control is essentially complete.
- By contrast, if a project is providing training to strengthen government extension services, the project has full control over content of the training, limited control over the recommendations made by Extension Agents, and no control over the farmers’ actions. (However, other components of the project may provide closer control over farmer’s actions).

The EMMP examples in the Annex illustrate this issue.

Retaining General Language in an EMMP. In some cases, it may not be possible to fully specify mitigation

actions in an EMMP, and the EMMP may include language such as “if feasible,” “as practicable,” or “as necessary.”

For example, the EMMP for a health activity might read:

In all plans, strategies, and other relevant documents, the need for environmentally sound collection, management, and disposal of healthcare waste, will be incorporated, as appropriate; and a budget for implementation must be included.

However, if such language is used, the need for specificity does not disappear. It is simply transferred to the person responsible for overseeing EMMP implementation. In the above case, this party would review documents and report on inclusion of healthcare waste management in these documents—and on instances where the issue was not incorporated, and why.

3. Specify Monitoring Measures.

(see resources for mitigation and monitoring design, at end.)

The EMMP should specify monitoring that will ascertain BOTH:

- (1) whether mitigation was implemented.
- (2) whether mitigation was sufficient and effective.

For example: To safeguard water quality, a water and sanitation IEE might require that water points be sited well away from sources of contamination and that livestock be physically excluded from the water points.

A visual inspection would show whether the mitigation was implemented. But showing that the mitigation was *sufficient* and the water safe to drink would require water quality testing.

The ENCAP training presentation “Principles of Environmental Monitoring” provides an introduction to environmental monitoring design. Examples of monitoring measures are found in the Annex to this factsheet.

Environmental compliance monitoring should be integrated into project M&E. See section 6.5, below & section 10, implementing EMMPs.

4. Specify timelines and responsible parties

EMMPs not only specify the mitigation and monitoring actions themselves, but who is responsible for them, and on what timeline or schedule.

This is not always possible for the EMMP preparer to do—s/he may be a consultant or specialist without detailed knowledge of project management and staffing. In this case, specifying timelines and responsible parties can be handed off to the individual responsible for

overseeing EMMP implementation. (See immediately below).

5. Determine who is responsible for overseeing EMMP implementation/environmental compliance.

Once the EMMP is drafted, the COP or responsible senior project manager must review it and determine who will be assigned responsibility for overseeing EMMP implementation.

Overseeing EMMP implementation means having overall responsibility for verifying that mitigation measures are being implemented and for other aspects of monitoring, as well as *reporting* (see Section 8 below). Note that while one individual is typically responsible for oversight, individual mitigation and monitoring actions must be integrated into the implementation of core project activities and M&E. As such, they will be carried out by a number of project staff.

If mitigation and monitoring are complex or extensive, a project may hire a dedicated environmental compliance manager. This would often be appropriate, for example, for road rehabilitation projects—which tend to involve complex, technical mitigation and monitoring—and for agricultural projects involving pesticides or encroachment issues.

If the EMMP is fairly simple, responsibility for overseeing EMMP implementation can be assigned to the M & E Specialist, or a training or technical specialist.

Regardless, EMMP implementation oversight must be included in the job description of the individual who is assigned this responsibility.

7. PITFALLS TO AVOID

Good EMMPs avoid a set of common pitfalls. They do NOT:

- **Use unclear, ambiguous, non-actionable and/or non-verifiable mitigation measures.** For example, Good EMMPs do NOT include mitigation measures that simply state “good practices will be implemented per Chapter X of the *Environmental Guidelines for Small-Scale Activities in Africa* (EGSSAA). They DO specify which practices and which guidance from the EGSSAA will be implemented.
- **Include “extra” mitigation.** All mitigation measures must respond to a specific IEE or EA condition.
- **Use language like “as feasible,” “as appropriate,” etc.** unless doing so is absolutely unavoidable. (See discussion of “retaining general language in an EMMP” at the top of this page.)

8. EMMPs & ENVIRONMENTAL COMPLIANCE REPORTING

To enable C/AOTRs to fulfill their mandated responsibility to “actively manage and monitor” compliance with IEE/EA conditions, IP quarterly or semi-annual progress reports must provide an auditable record of environmental compliance—and especially of implementation of IEE/EA conditions. EMMPs provide the framework for this “environmental compliance reporting.”

Sometimes the governing IEE or the C/AOTR specifies compliance reporting requirements and formats. If so, these requirements must be met.

If the reporting requirements are not specified, follow the guidance in the table below:

Situation	Environmental Compliance Reporting Content and Format
EMMP is fairly simple & contains a monitoring log section	Update EMMP with most recent monitoring data & annex to quarterly or semi-annual progress report.
EMMP is fairly simple but does not contain a monitoring log section	Consider adding a monitoring log to the EMMP and proceed as above. OR: Develop a simple table-based reporting format that lists activities, planned mitigation, and mitigation status/issues encountered.
EMMP is longer and more complex	Provide a text summary of EMMP implementation and issues encountered and resolved. Maintain a full monitoring log on file and provide to USAID upon request.

Environmental Compliance and Project Core Performance Indicators

For new projects, Africa Bureau best practice is that at least one core project performance indicator should be “environmentalized”—that is measure the extent to which core project activities are being executed with attention to environmental soundness and compliance.

For example, in a water point provision project, the IP might use the indicator “number of protected water points established with zero fecal coliform after 6 months” rather than “number of water points established.”

In a road rehabilitation project, the IP might use the indicator “km or road rehabilitated under environmentally sound practices” rather than “km of road rehabilitated.”

It is NOT necessary or appropriate to “environmentalize” every core indicator, or to capture every mitigation measure in core project reporting.

9. EMMP REVIEW AND APPROVAL

For project-specific IEEs (including IEE Amendments and Amendments with PERSUAPs), the EMMP will usually be developed with and submitted as an annex to the IEE. In this case, the EMMP is reviewed and approved as a part of the IEE. (Note that IEEs receive final clearance with the signature of the BEO.)

Otherwise, the EMMP will be developed together with the project workplan, budget, and performance management plan (PMP). In this case, the EMMP will be submitted together with the workplan and/or PMP to the C/AOTR, who is responsible for reviewing and approving it.

The C/AOTR may involve the MEO in this review, especially for environmentally sensitive activities. The IEE/EA will sometimes specify that the REA must review and approve the EMMP as well.

10. IMPLEMENTING EMMPs

Experience shows that systematic EMMP implementation requires:

- **Establishing accountability.** As noted in section 5.5, oversight responsibility for EMMP implementation must be assigned to an appropriate, qualified project staff member, and this responsibility must be part of their job description.
- **Workplan integration.** Where the EMMP requires discrete actions, these must be entered into the project workplan. Examples of discrete actions include, e.g. “train staff and partners in environmental compliance,” “develop a PERSUAP,” “undertake pollution prevention/cleaner production assessments,” etc.

By contrast, some mitigations do not result in separate workplan actions *per se*. For example, an EMMP could require that “all plans, strategies, and other relevant documents address environmentally sound collection, management, and disposal of healthcare waste.”

Environmental compliance monitoring should be a workplan item.

- **Budget integration.** Workplan items must be reflected in the project budget. However, even EMMP requirements that do *not* result in discrete actions can have cost implications. Continuing the example above, a consultant or home office technical support might be needed to assure that a plan or strategy properly addresses “environmentally sound collection, management, and disposal of healthcare waste.”

The best way to make sure that cost implications of the EMMP are captured is to develop mitigation and monitoring cost estimates as part of EMMP development.

If this is not possible, budget notes should be developed for mitigation items that have cost implications, and these notes passed on to the budgeting team.

- **Management commitment & staff awareness.** Project management must communicate to all staff and partners its commitment to environmental compliance as a means to strengthen development outcomes.

All staff should be aware in general terms of the core environmental conditions that apply to the project, and of the existence of the project EMMP.

II. ENCAP RESOURCES FOR MITIGATION AND MONITORING DESIGN

Per the table below, ENCAP has developed a set of resources to support mitigation and monitoring design.

Topic	Recommended Resource
Mitigation and Monitoring Principles	<p><i>Principles of Environmental Mitigation</i> <i>Principles of Environmental Monitoring</i></p> <p>ENCAP training presentations; convey key principles with multiple visual examples. Include slide notes www.encapafrika.org/meoentry.htm (access via mitigation & monitoring topic)</p>
Sectoral mitigation and monitoring guidance	<p><i>Environmental Guidelines for Small-Scale Activities in Africa. (EGSSAA)</i></p> <p>Covers more than 20 common development sectors, and provides mitigation and monitoring guidance in table format.</p> <p>On-line annotated bibliographies provide links to detailed resources. www.encapafrika.org/egssaa.htm</p>
Field Monitoring for non-specialists	<p><i>ENCAP Visual Field Guides</i></p> <p>A supplement to the EGSSAA, these photo-based field guides allow non-specialists to quickly identify key, common environmental management deficits in small-scale activities in the following sectors:</p> <p>Water supply, sanitation, health care (waste), and roads. www.encapafrika.org/egssaa.htm#Guides</p>

ACRONYMS

ADS	Automated Directives System
A/COTR	AOTR and/or COTR
AOTR	Agreement Officer's Technical Representative
AFR/SD	USAID Bureau for Africa, Office of Sustainable Development
BEO	Bureau Environmental Officer
CFR	Code of (US) Federal Regulations
COP	Chief of Party
COTR	Contract Officer's Technical Representative
EA	Environmental Assessment
EGSSAA	USAID <i>Environmental Guidelines for Small-Scale Activities in Africa</i>
ENCAP	Environmental Compliance and Management Support for Africa (AFR/SD project)
EMMP	Environmental Mitigation and Monitoring Plan
IEE	Initial Environmental Examination
IP	Implementing Partner
M&E	Monitoring and Evaluation
MEO	Mission Environmental Officer
PERSUAP	Pesticide Evaluation Report & Safer Use Action Plan
PMP	Performance Management Plan
REA	Regional Environmental Advisor
USAID	United States Agency for International Development

ANNEX: EMMP EXAMPLES

This annex contains 3 EMMP examples for typical activities and IEE conditions in the health, agriculture, and construction sectors. The examples are real, though project names and some details have been changed for the purpose of this factsheet:

1. “The Health Improvement Program “ (THIP)
2. “Agricultural Services Project” (ASP)
3. “Small Facilities Construction Project” (SFC)

The first two examples use the general EMMP format presented in section 5. In each of these examples, a monitoring log column could be added to the far right of each table. The 3rd example is an alternate EMMP format.

Note that the examples are for a few REPRESENTATIVE ACTIVITIES within projects of this type. Most projects would have more activities, and the EMMPs would therefore be longer.

EXAMPLE 1: THE HEALTH IMPROVEMENT PROGRAM (THIP)

THIP Activity 1:

Prepare strategies and action plans to increase the import and internal distribution of pharmaceuticals

Potential Environmental Impact: Strategies and action plans could indirectly result in larger and more widely distributed in-country stocks of pharmaceuticals. These may expire prior to being distributed and/or used, and will need to be disposed of. Unsafe disposal could affect aquatic and terrestrial resources and human health.

IEE Condition	Specific mitigation actions to implement the condition	Person responsible for implementing mitigation Timing	How implementation will be verified (monitoring indicator) Responsible party & Timing
Contractor shall provide advice for safe storage and disposal of expired pharmaceuticals.	In all strategies and action plans for which THIP provides assistance, include measures for: <ol style="list-style-type: none"> a) storage in accordance with labels; b) disposal of expired and unused pharmaceuticals; and c) a budget to implement these safeguards. 	<i>Responsible Party:</i> THIP Policy Technical Advisors <i>Timing:</i> During preparation phase of all strategies and action plans	Review of all strategies and action plans to ensure they include information about safe disposal of pharmaceuticals and a budget <i>Responsible Party:</i> THIP Policy Director <i>Timing:</i> During preparation of drafts and final documents

THIP Activity 2:

Procure pharmaceuticals from US companies.

Potential Environmental Impact: Procurement of pharmaceuticals could generate unused/expired drugs that if not disposed of safely, could affect aquatic and terrestrial resources and human health.

IEE Condition	Specific mitigation actions to implement the condition	Person responsible for implementing mitigation Timing	How implementation will be verified (monitoring indicator) Responsible party & Timing
Contractor shall provide advice for safe storage and disposal of expired pharmaceuticals.	Advise at MOH and district levels on the storage of the product according to the information provided on the manufacturer’s Materials Safety Data Sheet (MSDS)	<i>Responsible Party:</i> THIP Policy Technical Advisors <i>Timing:</i> When meeting with appropriate MOH & district staff	Check storage practices are in compliance with MSDS <i>Responsible Party:</i> THIP M & E Advisor <i>Timing:</i> Semi-annually
	Train MOH and local level health practitioners and management staff on aspects of medicine supply chain management, including estimating demand, distribution constraints, and storage issues of time and temperature.	<i>Responsible Party:</i> THIP Training Advisor <i>Timing:</i> Two times/year	1) Training is implemented: M & E Advisor; monitor semi-annually; 2) Supply chain has improved (constraints/bottlenecks have decreased) THIP Policy Advisor; monitor annually

THIP Activity 3:
Train healthcare workers on use of new medical procedures.

Potential Environmental Impact: As an indirect result of training, healthcare waste (HCW) will be generated. If not collected and disposed of safely, aquatic and terrestrial resources and human health could be adversely affected

IEE Condition	Specific mitigation actions to implement the condition	Person responsible for implementing mitigation Timing	How implementation will be verified (monitoring indicator) Responsible party & Timing
Training of healthcare workers should include best practices in disposal of HCW as described in the EGGSAA Healthcare Waste chapter:	Training courses should incorporate the following items, which should be included in all training on implementing new medical procedures: <ul style="list-style-type: none"> ▪ How to Prepare an HCW Plan ▪ Developing a Waste Segregation System ▪ Minimize, Reuse, Recycling Procedures ▪ Incorporating Good Hygiene Practices 	<i>Responsible Party:</i> Training Advisor <i>Timing:</i> When course material is being developed; when training is delivered	Course material includes these topics; when course material is developed; M & E Advisor Trainings include these topics; when trainings are delivered; M & E Advisor

EXAMPLE 2: AGRICULTURAL SERVICES PROJECT (ASP)

ASP Activity 1:
Training Ministry of Agriculture extension officers to provide sound crop production advice to ASP-supported farmers

Potential Environmental Impact: MOA extension officers could provide advice to farmers which results in expansion of agricultural land into natural areas; or that results in the unsafe use of pesticides.

IEE Condition	Specific mitigation actions to implement the condition	Person responsible for implementing mitigation Timing	How implementation will be verified (monitoring indicator) Responsible party & Timing
Training shall not result in direct or indirect effects on the environment.	Training of MOA extension officers shall incorporate conservation agriculture; information on ecosystem services; and measures to minimize impacts to natural ecosystems.	<i>Responsible Party:</i> ASP Crop Production Specialist <i>Timing:</i> Curriculum Development; During trainings	Review of curricula; attend various trainings <i>Responsible Party:</i> ASP Training Officer <i>Timing:</i> At time curricula are being developed; when trainings are provided
Trainings shall not recommend pesticides without first preparing a PERSUAP that is approved by the Bureau Environmental Officer.	Note: these mitigation measures are from the PERSUAP approved by the BEO on [xxx date]: 1) Only PERSUAP-approved pesticides shall be included in training for extension officers. 2) Trainings shall include safeguards for health and safety of workers, and measures to protect the environment (Annexes A and B of the PERSUAP). 3) Trainings shall include monitoring the efficacy of pesticides as described in Annex C of the PERSUAP.	ASP Crop Production Specialist During trainings	Review of curricula; attend various trainings <i>Responsible Party:</i> ASP Training Officer <i>Timing:</i> At time curricula are being developed; when trainings are provided

EXAMPLE 3: SMALL FACILITIES CONSTRUCTION PROJECT (SFC)

NOTE: This example uses an alternate EMMP format. In this case, a project-specific IEE existed with highly specific conditions regarding siting, design requirements, and construction management practices for the small facilities (training centers, community centers) to be constructed by the project. These conditions were translated into table form (below), and for each condition a *compliance process* was specified. This EMMP format serves both as a detailed monitoring log and a management tool and guide to implementing mitigation.

IEE Condition 1: Siting Requirements for New Construction

Compliance process. At the time of initial site selection, SFC must answer the questions below for each proposed site. If a proposed site meets one of the below-listed criteria, the site must be changed OR an Africa Bureau Environmental Review Form (www.encapafrika.org/documents/AFR-EnvReviewForm-20Dec2010.doc) must be completed and approved by USAID prior to the start of construction. SFC must then implement the environmental conditions specified by the ERF.

Note: completed ERFs include an EMMP. SFC will maintain the ERF EMMPs as an annex to this project EMMP and report on their implementation to USAID.

Compliance record. The table below documents the compliance process. Note: all table entries must be dated & initialed.

Proposed Site	GPS Coordinates	Is/Does the site. . .				If yes to any question, indicate ERF status or note site change; add additional row for new site.
		Within 30m of a permanent or seasonal stream or water body?	Have existing settlement /inhabitants?	Have an average slope in excess of 5%?	Heavily forested?	
Village A						
Village B						
(add sites as necessary)						

IEE Condition 2: Design Requirements for Small Facilities

Compliance process: (1) Design elements specified by the IEE will be incorporated into the final technical/contract specification that governs the general contractor’s work. SFC will verify this for each mandated design element. (2) SFC will verify via field inspection that the final works meet these specifications, requiring remedy or otherwise resolving any non-compliant elements.

Compliance record. The table below lists all design elements mandated by the IEE and serves to document compliance status.

Required Design Elements—Training and Community Centers															
A. Latrine/septic tank design prevents in-and-out access for insects or other disease vectors from the pit or holding tank. B. Latrines are accompanied by handwash stations. C. All sources of gray water (kitchen sinks and handwash stations) discharge to either (1) a seepage pit or sump at least 15m from any source of groundwater or surface water tapped for domestic use, or (2) to an impermeable pump-out tank. D. Latrines or the terminus of any septic leach field must be at least 30m from any source of shallow groundwater or surface water tapped for domestic use, OR discharge to an impermeable pump-out tank. E. Siting, grading and/or drainage structures prevent runoff from the compound from creating standing water on the compound or adjacent land during the rainy season (instances of generalized flooding excepted.) F. Septic pump-out point, if any, shall feature a concrete apron and drain with return to the septic tank. G. Concrete aprons with berms or gutters/sumps shall be placed under generators, fuel storage, and fuel pump-in point (if different) sufficient in each case to capture at least a 20 liter spill.															
Site	Incorporated in Final Technical Specifications? (Y/N; reference to list above)							Built as-specified? (confirmed by field inspection) (Y/N; reference to list above)							Notes (issues and resolution)
	A	B	C	D	E	F	G	A	B	C	D	E	F	G	



ENCAP FACTSHEET

ENVIRONMENTAL COMPLIANCE: LANGUAGE FOR USE IN SOLICITATIONS AND AWARDS (ECL)

ABOUT THE ECL AND THIS FACTSHEET

The ADS Help Document, “Environmental Compliance: Language for Use in Solicitations and Awards” is a combination of step-by-step guidance and boilerplate text to assemble appropriate, ADS-mandated environmental compliance language for all solicitations and awards. This factsheet is an orientation to the ECL, and particularly targets COs, CTOs, and Activity Managers. It is intended both as a training aid and as a succinct stand-alone reference.

BACKGROUND: USAID’S MANDATORY ENVIRONMENTAL PROCEDURES

Section 117 of the Foreign Assistance Act of 1961, as amended, requires that USAID use an Environmental Impact Assessment (EIA) process to evaluate the potential impact of the Agency’s activities on the environment **prior** to implementation, and that USAID “fully take into account” environmental sustainability in designing and carrying out its development programs. This mandate is codified in Federal Regulations (22 CFR 216 or “Reg. 216”) and in USAID’s Automated Directives System (ADS), particularly Parts 201.3.12.2.b and 204.

Compliance with the procedures is mandatory. With limited exceptions for international disaster assistance, they apply to every program, project, activity, and amendment supported with USAID funds or managed by USAID.

In general, the procedures specify an EIA process must be applied to all activities before implementation—including new activities introduced into an existing program or substantive changes to existing activities. The only exceptions are international disaster assistance activities verified as EXEMPT from the procedures.

The output of this EIA process is “Reg. 216 Environmental Documentation,” which takes one of three forms: a Request for Categorical Exclusion, an Initial Environmental Examination (IEE) or an Environmental Assessment (EA).

This documentation must be cleared by the Mission Environmental Officer (MEO) and the Mission Director AND approved by the Bureau Environmental Officer (BEO) PRIOR to any “irreversible commitment” of resources. Most IEEs and all EAs specify environmental mitigation and monitoring measures (IEE and EA “conditions”) that must be implemented and verified over life-of-project (LOP).¹

PROCUREMENT LANGUAGE AND ENVIRONMENTAL COMPLIANCE

USAID oversees and monitors project/activity environmental compliance. Actual implementation of IEE and EA conditions, however, is the responsibility of the prime contractor/grantee (“partner”) responsible for project/activity implementation. *The ADS therefore requires that all IEE and EA conditions (or a*

Why the environmental procedures?

The procedures are USAID’s principal mechanism to ensure environmentally sound design and management (ESDM) of development activities—and thus to prevent significant adverse impacts on critical environmental resources and ecosystems and on the health and livelihoods of beneficiaries or other groups resulting from inadequate attention to environmental issues in design and operation.

In short, the procedures strengthen development outcomes and help safeguard the good name and reputation of the Agency.

To learn more about ESDM, view the presentation *Environment, Development and Environmentally Sound Design and Management* at www.encapafrika.org/tzWorkshop.htm.

¹ For a more detailed discussion of USAID’s Environmental Procedures, see the “USAID Environmental Procedures Briefing for Mission Staff,” available at www.encapafrika.org/meoEntry.htm.

statement that requires compliance with them) are incorporated into procurement instruments (ADS 204.3.4.a.6; 303.3.6.3e).

Beyond this, however, LOP environmental compliance is best assured when solicitation and award instruments also incorporate the elements set out and justified in the table below:

Environmental compliance elements in solicitation/award instrument	Reason
No activity is implemented unless covered by approved Reg. 216 environmental documentation.	Establishes the importance of maintaining full environmental documentation coverage.
The partner must verify current and planned activities annually against the scope of the approved Reg. 216 environmental documentation.	Guards against a project “creeping” out of compliance due to the addition or modification of activities outside the scope of the approved Reg. 216 environmental documentation. This usually takes place during the annual work planning process.
Where activities demand environmental management expertise, appropriate qualifications and proposed approaches to compliance must be addressed in technical and cost proposals.	Helps ensure that the partner/team selected for the work is capable of implementing the required environmental management activities. Also sends a clear message that environmental management is not an afterthought, but an integral part of the project, and a core qualification.
The partner must develop an Environmental Mitigation and Monitoring Plan (EMMP) fully responsive to all IEE/EA conditions, unless (1) the EMMP already exists in the approved Reg. 216 documentation, or (2) will be developed by USAID.	The EMMP translates the general mitigation directives in the IEE or EA into more specific measures, assigns responsibilities for their implementation, and sets out monitoring/reporting measures to verify their implementation and effectiveness. Without an EMMP, systematic & verifiable implementation of IEE/EA conditions is almost impossible.
Budgets and work plans integrate the EMMP.	Unless the EMMP is integrated in the budget and work plan, it will not be implemented.
PMPs measure EMMP implementation.	As the EMMP is an integral part of project implementation, it should be treated this way in project evaluation and reporting.

Collectively, incorporating these compliance elements in the solicitation and award (1) ensures that necessary compliance mechanisms are in place, (2) integrates monitoring and reporting on environmental compliance into routine project/activity monitoring and reporting, and (3) clearly communicates and establishes partner responsibility for LOP compliance. The result is *improved compliance, improved project outcomes, and reduced demands on mission staff*—particularly on activity managers and CTOs, who are required to actively manage and monitor compliance with any IEE/EA conditions per ADS 202.3.6 and 303.2.f.

WHY USE THE ECL?

The ECL is a non-mandatory help document. However, its use:

- Results in environmental compliance language that conforms to ADS requirements and best practice, as described in the table above, therefore realizing the compliance, outcomes, and manager workload benefits also noted above.
- Substantially reduces the time required to develop environmental compliance language.
- Improves consistency across the Agency in addressing environmental compliance.

HOW TO USE THE ECL AND WHAT YOU NEED IN HAND

Use of the ECL is self-explanatory:

1. Follow the instructions on page 3 of the document to assemble the compliance language, then
2. Finalize the **[text in brackets and blue highlight]**.

However, both steps require familiarity with the Reg. 216 documentation covering the activities involved in the solicitation/procurement. In some cases, an IEE specific to the procurement is prepared (in which case the compliance language should be assembled at the same time). In other cases, the solicitation/procurement is covered by a strategic- or program-level IEE of broader scope. In this case, the CTO and MEO should identify the IEE determinations and conditions that apply to the procurement. Once this is done, use of the ECL is straightforward.

Regardless, it is the responsibility of the CTO and Activity Manager, working with the CO, to assure that appropriate environmental compliance language is incorporated in solicitation and procurement instruments.



USAID
FROM THE AMERICAN PEOPLE

Environmental Compliance: Language for Use in Solicitations and Awards

An Additional Help for ADS Chapter 204

Revision Date: 05/19/2008
Responsible Office: EGAT
File Name: 204sac_051908

Environmental Compliance: Language for Use in Solicitations and Awards

ABOUT THIS LANGUAGE

The following recommended language is for use by Cognizant Technical Officers (CTOs), Activity Managers, Contracting Officers (COs), Mission Environmental Officers (MEOs), Program Officers, Bureau Environmental Officers (BEOs), and other USAID staff involved in solicitations, awards, and activity design and management.

Its purpose is to ensure adequate time is provided for environmental review and that environmental factors and mitigative measures identified in approved environmental impact assessment documentation are incorporated in the design and approval of each program and activity before the Operating Unit, Team, Activity Manager or CTO makes an irreversible commitment of resources for the program or activity. It also is intended to help improve application of USAID's environmental procedures (22 CFR 216 or Regulation 216¹) to create more sustainable and successful implementation of activities, projects and programs.

- By explicitly enumerating the environmental compliance responsibilities of project implementers, use of this recommended language can help ensure that environmental compliance requirements stemming from the Regulation 216 process are fully integrated into project designs, workplans, and implementation of activities.
- Use of the language also alerts USAID staff and implementing partners early on to the need for a budget to implement environmental compliance measures and to the importance of providing sufficient Regulation 216 technical capacity to implement, monitor, and report on environmental compliance. Doing so is intended to ensure that compliance is maintained throughout design and implementation—over the entire life of a project or program.
- Further, the language contributes to mainstreaming of environmental concerns by integrating environmental compliance into USAID's typical project design and implementation processes.

The language can be used in any type of procurement instrument (contracts, cooperative agreements, grants, etc.). Although not explicitly required by ADS 305 for Host Country Contracts, this language also can be used for Host Country solicitations and in Implementation Letters and is especially appropriate when contracting for construction services and technical or professional services.

For greatest benefit, Technical Teams and other USAID staff should review and discuss the recommended language during project design, and modify it, as may be necessary, so it is well-integrated with the program description. Together the CTO, CO, and MEO should identify where and which language to insert based on the type of solicitation and award. For activities that are designed and managed out of AID/Washington (in Pillar or Regional Bureaus), the BEO would serve a similar technical role as the MEO does at the Mission level. The MEO, REA, BEO, or other trained staff may be able to provide staff training or guidance, if necessary, on use of the language in solicitations and contracting documents.

¹ Full text of 22 CFR 216 can be found at http://www.usaid.gov/our_work/environment/compliance/reg216.pdf

HOW TO ASSEMBLE COMPLIANCE LANGUAGE

To assemble the compliance language for a particular solicitation or award, the following table should be used as guidance. Multiple situations can apply to a single procurement; if this is the case, use all indicated language. You may need to revise and/or renumber the language depending on which elements you select and where you place them in the award or solicitation. [Bracketed text] in the model language indicates that you must select the appropriate option or provide other input.

When the situation is that . . .	Use these environmental compliance language paragraphs from the Model Language . . .
Approved Regulation 216 documentation ² exists and it contains . . . Categorical Exclusions and Negative Determinations only	1a through 1c 4a through 4c
at least one Negative Determination with conditions	1a through 1c 2 4a through 4c 5a through 5d 8a through 8d (optional: to be used when project will involve environmental compliance expertise; collaborate with MEO, or BEO for projects originating out of AID/W, for guidance, as needed)
at least one Positive Determination	1a through 1c 3 4a through 4c 5a through 5d 8a through 8d
The contractor/recipient will be required to prepare Regulation 216 documentation (an EA or IEE)	1a through 1c 4a through 4c 5a through 5d 6a through 6c 8a through 8d 2 If there is also an existing IEE that contains a Negative Determination with conditions 3 If there is also an existing IEE that contains a Positive Determination

² Note: “Approved Regulation 216 documentation” refers to a Request for Categorical Exclusion (RCE), Initial Environmental Examination (IEE), or Environmental Assessment (EA) duly signed by the Bureau Environmental Officer (BEO).

<p>The project includes a sub-grant fund</p>	<p>To any of the above language/situations that apply, add: 7a and 7b 8a through 8d (Paragraphs 7 and 8 are optional, based on the nature of the grant fund and potential environmental impacts; coordinate with MEO or BEO for projects originating out of AID/W for guidance, as needed)</p>
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MODEL LANGUAGE

1. Insert paragraphs 1a, 1b, and 1c in all solicitations and resulting awards:

- In RFAs, insert in the Program Description or in the RFA’s instructions regarding Technical Application Format
- In RFPs, insert in the appropriate section, often the “Special Contract Requirements”

- 1a) The Foreign Assistance Act of 1961, as amended, Section 117 requires that the impact of USAID’s activities on the environment be considered and that USAID include environmental sustainability as a central consideration in designing and carrying out its development programs. This mandate is codified in Federal Regulations (22 CFR 216) and in USAID’s Automated Directives System (ADS) Parts 201.5.10g and 204 (<http://www.usaid.gov/policy/ADS/200/>), which, in part, require that the potential environmental impacts of USAID-financed activities are identified prior to a final decision to proceed and that appropriate environmental safeguards are adopted for all activities. *[Offeror/respondent/contractor/recipient]* environmental compliance obligations under these regulations and procedures are specified in the following paragraphs of this *[RFP/RFA/contract/grant/cooperative agreement]*.
- 1b) In addition, the contractor/recipient must comply with host country environmental regulations unless otherwise directed in writing by USAID. In case of conflict between host country and USAID regulations, the latter shall govern .
- 1c) No activity funded under this *[contract/grant/CA]* will be implemented unless an environmental threshold determination, as defined by 22 CFR 216, has been reached for that activity, as documented in a Request for Categorical Exclusion (RCE), Initial Environmental Examination (IEE), or Environmental Assessment (EA) duly signed by the Bureau Environmental Officer (BEO). (Hereinafter, such documents are described as “approved Regulation 216 environmental documentation.”)

2. If the approved Regulation 216 documentation includes any Negative Determinations with conditions, insert 2.

This language stipulates that the activity(ies) must be implemented in compliance with the conditions specified in the Negative Determination.

- 2) An Initial Environmental Examination (IEE) *[(insert IEE # and download reference here, if available)]* has been approved for *[the Program(s)/Project]* funding this *[RFA/RFP/contract/grant/cooperative agreement (CA)]*. The IEE covers activities expected to be implemented under this *[contract/grant/CA]*. USAID has determined that a **Negative Determination with conditions** applies to one or more of the proposed activities. This indicates that if these activities are implemented subject to the specified conditions, they are expected to have no significant adverse effect on the environment. The *[offeror/applicant/contractor/recipient]* shall be responsible for implementing all IEE conditions pertaining to activities to be funded under this *[solicitation/award]*.

3. If the approved Regulation 216 documentation includes a Positive Determination, insert 3.

This language specifies that an approved Environmental Assessment (EA) must exist prior to implementation of the activity(ies), and that the activity(ies) must be implemented in compliance with the conditions in the approved EA.

3) An Initial Environmental Examination (IEE) has been approved for the [Program or project funding] this [RFA/RFP/contract/agreement] and for activities to be undertaken herein [(insert IEE # and download reference here, if available)]. The IEE contains a **Positive Determination** for the following proposed activities: [specify]. This indicates that these activities have the potential for significant adverse effects on the environment. Accordingly, the [contractor/recipient] is required to [comply with the terms of*/prepare and submit**] an Environmental Assessment (EA) addressing the environmental concerns raised by these activities. No activity identified under this Positive Determination can proceed until Scoping as described in §216.3(a)(4) and an EA as described in §216.6 are completed and approved by USAID (Note that the completed Scoping Statement is normally submitted by the MEO to the BEO when the project originates in a Mission. The Statement may be circulated outside the Agency by the BEO with a request for written comments within 30 days and approved by the BEO subsequently. Approval of the Scoping Statement must be provided by the BEO before the EA can be initiated.)

[*]If an EA already exists, and the contractor/recipient will not be required to prepare the EA, but will be required to comply with the terms of an existing EA.

[**]If contractor/recipient must prepare and submit an EA, also insert 6a through 6c.

Note: If the contractor is to prepare an EA, then this should be specified in the RFP/RFA instructions. The final negotiation of the EA will be incorporated into the award. Paragraphs 8a through d will always apply when the approved environmental documentation includes a Positive Determination, whether the contractor/recipient is preparing the EA or simply required to comply with an existing EA.

4. Insert for all solicitations and awards

The language requires that the contractor/recipient must ensure all activities, over the life of the project, are included in the approved Regulation 216 documentation.

- 4a) As part of its initial Work Plan, and all Annual Work Plans thereafter, the [contractor/recipient], in collaboration with the USAID Cognizant Technical Officer and Mission Environmental Officer or Bureau Environmental Officer, as appropriate, shall review all ongoing and planned activities under this [contract/grant/CA] to determine if they are within the scope of the approved Regulation 216 environmental documentation.
- 4b) If the [contractor/recipient] plans any new activities outside the scope of the approved Regulation 216 environmental documentation, it shall prepare an amendment to the documentation for USAID review and approval. No such new activities shall be undertaken prior to receiving written USAID approval of environmental documentation amendments.
- 4c) Any ongoing activities found to be outside the scope of the approved Regulation 216 environmental documentation shall be halted until an amendment to the documentation is submitted and written approval is received from USAID.

5. If the approved Regulation 216 documentation contains one or more Negative Determinations with conditions and/or an EA, insert 5a through 5d. (These paragraphs should also always be used when the contractor/recipient is writing an IEE or EA.)

The language requires the contractor/recipient to integrate mitigation measures and monitoring into project work plans.

- 5 When the approved Regulation 216 documentation is (1) an IEE that contains one or more Negative Determinations with conditions and/or (2) an EA, the [contractor/recipient] shall:
- 5a) Unless the approved Regulation 216 documentation contains a complete environmental mitigation and monitoring plan (EMMP) or a project mitigation and monitoring (M&M) plan, the [contractor/recipient] shall prepare an EMMP or M&M Plan describing how the [contractor/recipient] will, in specific terms, implement all IEE and/or EA conditions that apply to proposed project activities within the scope of the award. The EMMP or M&M Plan shall include monitoring the implementation of the conditions and their effectiveness.
 - 5b) Integrate a completed EMMP or M&M Plan into the initial work plan.
 - 5c) Integrate an EMMP or M&M Plan into subsequent Annual Work Plans, making any necessary adjustments to activity implementation in order to minimize adverse impacts to the environment.

6. For solicitations, if the Proposal Instructions specifies that the [contractor/recipient] will be required to prepare Regulation 216 documentation (IEE or EA) for some or all activities, insert 6a through 6c.

- 6a) Cost and technical proposals must reflect IEE or EA preparation costs and approaches.
- 6b) [Contractor/recipient] will be expected to comply with all conditions specified in the approved IEE and/or EA.
- 6c) If an IEE, as developed by the [contractor/recipient] and approved by USAID, includes a Positive Determination for one or more activities, the contractor/recipient will be required to develop and submit an EA addressing these activities.

Note: In this case, always insert paragraphs 8a through 8d, as well.

7. For solicitations and awards when sub-grants are contemplated, and the IEE gives a Negative Determination with conditions that specifies use of a screening tool for sub-grants, insert 7a and 7b.

- 7a) A provision for sub-grants is included under this award; therefore, the [contractor/recipient] will be required to use an Environmental Review Form (ERF) or Environmental Review (ER) checklist using impact assessment tools to screen grant proposals to ensure the funded proposals will result in no adverse environmental impact, to develop mitigation measures, as necessary, and to specify monitoring and reporting. Use of the ERF or ER checklist is called for when the nature of the grant proposals to be funded is not well enough known to make an informed decision about their potential environmental impacts, yet due to the type and extent of activities to be funded, any adverse impacts are expected to be easily mitigated. Implementation of sub-grant activities cannot go forward until the ERF or ER checklist is completed and approved by USAID. [Contractor/Recipient] is responsible for ensuring that mitigation measures specified by the ERF or ER checklist process are implemented.

7b) The [contractor/recipient] will be responsible for periodic reporting to the USAID Cognizant Technical Officer, as specified in the Schedule/Program Description of this solicitation/award.

8. For solicitations ONLY: Insert 8a through 8d when:

- the approved Regulation 216 documentation is a Positive Determination or an EA; or
- when the contractor/recipient will be expected to prepare Regulation 216 documentation; or
- when there is a sub-grant fund that requires use of an Environmental Review Form or Environmental Review checklist; and/or
- when there is a Negative Determination with conditions that will require environmental compliance expertise to prepare and/or implement an EMMP or M&M Plan, as determined in collaboration with the MEO or BEO for projects originating out of AID/W.

8a) USAID anticipates that environmental compliance and achieving optimal development outcomes for the proposed activities will require environmental management expertise. Respondents to the [RFA/RFP] should therefore include as part of their [application/proposal] their approach to achieving **environmental compliance and management**, to include:

8b) The respondent's approach to developing and implementing an [IEE or EA or environmental review process for a grant fund and/or an EMMP or M&M Plan].

8c) The respondent's approach to providing necessary environmental management expertise, including examples of past experience of environmental management of similar activities.

8d) The respondent's illustrative budget for implementing the environmental compliance activities. For the purposes of this solicitation, [offerors/applicants] should reflect illustrative costs for environmental compliance implementation and monitoring in their cost proposal.



IMPLEMENTING MECHANISM FACTSHEET

GLOBAL ENVIRONMENTAL MANAGEMENT SUPPORT (GEMS II)

CONTENTS

1. GEMS Overview
2. Implementers
3. Period of Performance
4. Scope of Services
5. Accessing GEMS Services
6. Pricing
7. Award Details
8. Contacts

1. GEMS OVERVIEW

GEMS II is a global program implemented under a USAID E3 Bureau contract which provides on-demand environmental compliance, management, and sound design support to USAID's Environmental Officers, individual agency operating units and their projects and programs.

Subject to available ceiling, GEMS services are available to any bureau or operating unit that elects to incrementally fund the contract.

2. IMPLEMENTERS

GEMS was awarded in late September 2013 to **The Cadmus Group, Inc.** under the GSA Multiple Award Schedules (MAS) program.

The core team consists of Cadmus (prime contractor), Sun Mountain International and The Cloudburst Group, who together provide the primary USAID environmental compliance/environmentally sound design and management expertise. Other core team members are Eurasia Environmental Associates, Neptune and Company, Mott MacDonald, World Education and Battelle Memorial Institute.

A number of on-call local partners may be engaged depending on the location of programmed activities.

3. PERIOD OF PERFORMANCE

30 September 2013–29 September 2018.

4. SCOPE OF SERVICES

A broad range of environmental compliance, management, and sound design support services are available under GEMS, including but not limited to:

- A. TRAINING.** Planning, design and delivery of general and sector-specific training in environmental compliance and environmentally sound design and management; development of training curricula and materials; and development and delivery of online/distance learning on these topics.
- B. GUIDANCE, TOOLS AND SYSTEMS.** Development and review of environmental compliance/best practice guidance for individual projects or sector programs. Development of software/IT and other tools and systems to support environmental compliance, management and M&E from mission portfolio to project level.
- C. 22 CFR 216 DOCUMENTATION.** Development and review of documentation prepared under USAID Environmental Procedures (22 CFR 216), including Initial Environmental Examinations (IEEs), scoping statements, and Environmental Assessments (EAs) and Programmatic Environmental Assessments (PEAs), including health, gender and social impacts analyses.
- D. EMMPs/EMPRs.** Development and review of Environmental Mitigation and Monitoring Plans (EMMPs) and Environmental Mitigation Plans and Reports (EMPRs) and TA to support to field implementation of such plans.
- E. COMPLIANCE ASSESSMENTS, FIELD MONITORING AND EVALUATION.** Environmental compliance assessments, from mission

portfolio to project and site-level. Field monitoring and evaluation of environmental compliance/management.

- F. ENVIRONMENTAL MANAGEMENT IN DISASTER ASSISTANCE.** Support to environmental management of disaster assistance, including rapid environmental assessments (REAs).
- G. BEO, REA AND MEO SUPPORT & BACKSTOPPING.** Screening and quality control of submitted 22 CFR 216 documentation and advice/TA for IPs and USAID staff developing this documentation.
- H. OTHER ENVIRONMENTAL ANALYSES.** Scoping, development and review of FAA 118/119 analyses, climate vulnerability assessments, health and social impact assessments, among others.
- I. HOST COUNTRY ENVIRONMENTAL MANAGEMENT CAPACITY.** Capacity-building of host country environmental management systems and professionals.
- J. KNOWLEDGE MANAGEMENT, LEARNING & COMMUNICATIONS.** Web-based and hardcopy dissemination of environmental management guidance, strategic and high-impact environmental communications, environmental management community-of-practice development and support.

5. ACCESSING GEMS SERVICES

Bureau Environmental Officers (BEOs) from participating Bureaus serve as Activity Managers for GEMS activities within their region/sector. In this capacity, they are “gatekeepers” for the GEMS work plan, in consultation with the COTR.

Operating units interested in accessing GEMS services, whether funded by the participating Bureaus or with their own buy-in funds, should first contact the relevant BEO/Activity Manager. See contact list at right.

The Activity Manager will work with the requesting operating unit and the prime contractor to reach an agreed scope of work, staffing, scheduling and budget.

6. PRICING

GEMS II is a time and materials (T&M) contract. Categorical, fully burdened T&M labor rates are set by the award based on Cadmus’ and Cloudburst’s GSA price schedules. Travel, logistics and materials costs are treated on a reimbursable basis. Please request the GEMS II pricing and ordering guide for more information.

7. AWARD & GLAAS DETAILS

Award #	AID-OAA-M-13-00018
Issued under	GSA Multiple Award Schedule (Cadmus GSA Multiple Award Schedule Contract No.: GS-10F-0105J)
Period of Performance	30 Sept 2013–29 Sept 2018 No option years.
Ceiling	\$37.87mn (5-years)
Lead Requisition	Contact COR for most current code
Group Requisition	Contact COR for most current code

8. CONTACTS

Contract Officer	Kevin Sampson ksampson@usaid.gov
Contract Specialist	Marcus Barnes mbarnes@usaid.gov

COR	Teresa Bernhard, E3 tbernhard@usaid.gov
Deputy COR	Brian Hirsch, AFR bhirsch@usaid.gov

Bureau Activity Managers (Bureau Environmental Officers)	
AFR	Brian Hirsch bhirsch@usaid.gov
Asia/Middle East	John Wilson jwilson@usaid.gov
LAC	Victor Bullen vbullen@usaid.gov
DCHA	Erika Clesceri eclesceri@usaid.gov
E3	Teresa Bernhard tbernhard@usaid.gov
EE	Will Gibson wgibson@usaid.gov
GH	Rachel Dagovitz rdagovitz@usaid.gov

Chief of Party (Program Manager)	Mark Stoughton The Cadmus Group, Inc. Mark.Stoughton@cadmusgroup.com
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USAID Environmental Compliance and Environmentally Sound Design & Management Resources online: www.usaidgems.org.

The screenshot shows the USAID GEMS website interface. At the top, there is a search bar and navigation tabs: BUREAU PAGES, TRAINING, SECTORAL BEST PRACTICES, LIFE-OF-PROJECT COMPLIANCE & ESM, LAWS, REGULATIONS, & POLICIES. Below the navigation is a large image of a child in a blue protective net. To the right of the image is a 'QUICK LINKS' section with links for Sector Guidelines, Training Calendar, and Reg. 216 Compliance Forms. Below the image are three main content sections: ABOUT GEMS SERVICES, ENVIRONMENTAL COMPLIANCE DATABASE, and FOREIGN LANGUAGE RESOURCES. At the bottom, there are four columns: NEWS AND NOTICES, BUREAU PAGES, TRAINING, and SECTORAL BEST PRACTICE.