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**Ministry of Water Resources and Irrigation**

**LIFE Integrated Water Resources Management  
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# **Quarterly Report**

**Year 4: 2<sup>nd</sup> Quarter**  
**(January - March 2008)**  
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**QUARTERLY REPORT**  
**Year 4: 2<sup>nd</sup> Quarter**  
**(January - March 2008)**

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## ACRONYMS AND ABBREVIATIONS

AAU	Agricultural Administrative Unit
AED	Academy for Educational Development (a US based entity providing USAID funded assistance regarding environmental education and awareness)
APRP	Agricultural Policy Reform Program
ASC	Alliance Steering Committee
BC	Branch Canal
BCWUA	Branch Canal Water User Association
CADI	Computer Assisted Development Inc. (a Ft. Collins, Colorado based consulting firm)
CD	Central Directorate
CDA	Community Development Association
CDIAS	Central Directorate, Irrigation Advisory Service
CEDARE	Centre for Environment & Development for Arab Region and Europe
CTO	Cognizant Technical Officer. The USAID person responsible for supervising a technical assistance contractor
CY	Calendar Year
DAI	Development Alternatives, Inc. (a Washington DC based consulting firm working with IRG to implement the project)
DBAF	Dual Biological Aerated Filter (waste water treatment process)
EEAA	Egyptian Environmental Affairs Agency
EEPP	Egyptian Environmental Policy Program (a USAID funded program aimed at achieving environmental policy reform)
EPADP	MWRI Egyptian Public Authority for Drainage Projects
EPIQ	Environmental Policy and Institutional Strengthening Indefinite Quantity Contract
ET	Evapotranspiration
FAQ	Frequently Asked Questions
FWUO	Fayoum Water Users' Organization Project
GDA	Global Development Alliance
GD	General Directorate
GIS	Geographic Information System
GOE	Government of Egypt
GPS	Global Positioning System
GW	Groundwater
GWS	Groundwater Sector
HD	(Aswan) High Dam
IAS	Irrigation Advisory Service
IBRD	International Bank for Reconstruction and Development or World Bank
ID	Irrigation Department
IDS	Irrigation and Drainage system
IIIMP	Integrated Irrigation Improvement and Management Project
IIP	Irrigation Improvement Project
IRG	International Resources Group (a Washington DC based consulting firm that is prime contractor for the IWRMP)
IRU	MWRI Institutional Reform Unit
IRs	Intermediate Results
IS	Irrigation Sector of the MWRI
IT	Information Technology

IWMD	Integrated Water Management District
IWMU	MWRI Integrated Water Management Unit
IWRM	Integrated Water Resources Management
IWRMP	Integrated Water Resource Management Project
LAN	Local Area Network
LIFE	Livelihood and Income from the Environment (Project)
LOE	Level of Effort
LTTA	Long-term Technical Assistance
M&E	Monitoring and Evaluation
MALR	Ministry of Agriculture and Land Reclamation
MED	MWRI Mechanical and Electrical Department
MIC	MWRI Ministry Information Center
MISD	Matching Irrigation Supply and Demand
MOE	Ministry of Education
MOH	Ministry of Housing
MOU	Memorandum of Understanding
MSEA	Ministry of State for Environmental Affairs
MS	Master of Science
MWRI	Ministry of Water Resources and Irrigation
NGO	Non-Governmental Organization
NWRC	MWRI National Water Research Center
O&M	Operation and Maintenance
OJT	On-the-Job Training
PB	Performance Benchmarking
PM&E	Performance Monitoring and Evaluation
PWM	Participatory Water Management
RSC/WP	Red Sea Coastal/Water Project, short name for USAID Red Sea Coastal and Improved Water Resource Management Project
RWP	Relative Water Supply
SIRs	Sub-Intermediate Results
SOs	Strategic Objectives
STTA	Short-term Technical Assistance
TA	Technical Assistance
TOR	Terms of Reference
TOT	Training of Trainers
UNICEF	United Nations International Children's Emergency Fund.
USA	United States of America
USAID	United States Agency for International Development
USCID	US Committee on Irrigation and Drainage
WCU	MWRI Water Communication Unit
WDC	MWRI Central Water Distribution Center
WPRP	Water Resources Results Package
WQU	MWRI Water Quality Unit
WRI	Water Resource Inventory
WUA	Water User Association
WWTF	Waste Water Treatment Facility
WWWHC	Water and Waste Water Holding Company

## I. SUMMARY

International Resource Group (IRG) under the USAID/Egypt funded Livelihood and Income from the Environment Integrated Water Resources Management Project (LIFE IWRM), Contract No. EPP-I-802-03-00013-00 Task Order 802 is responsible for assisting the Government of Egypt (GOE) to promote integrated water resources management. The period of performance of the project is from October 1, 2004 to September 30, 2008.

The purpose of this report is to present the status and performance of LIFE IWRM for Year 4 (2007/2008) 2<sup>nd</sup> Quarter covering the period from January to March 2008. The quarterly report has the following content: summary of project activities, accomplishments for this quarter, planned activities for the following quarter, problems and issues, staff level of effort, status of finance and expenditures, and list of reports.

A summary of the activities for the quarter follows:

Dr. Tom Sheng (IRG) and Dr. Mark Svendsen (DAI) briefed USAID at USAID/Maadi on Information System and M&E activities on 10 March.

Richard Rousseau (USAID Office Director Ag., Env., Water and Info & Comm. Technology) and Eng. Wafaa Faltaous (USAID CTO) visited Qena 16-17 March. They visited Luxor and Qena IWMDs, visited 2 BCWUAs and met with Qena Under Secretary (US), General Directors (DG), and IWMD District Managers. They also visited Luxor Waste Water Reuse Demo Site.

Sustainability plan prepared by IWMU and approved by MWRI Irrigation Department sent to USAID.

Several meetings were held with GTZ consultants to discuss MWRI regional authority proposal.

Russell Misheloff, IRG Home Office Project Manager, visited Cairo for coordination meeting with TA team & MWRI on status of LIFE IWRM.

CTO visited Qena and met with Qena US & GD from Qena E & Qena W on 29 January. She also visited El Toud village (GDA site) and Luxor Waste Water Reuse Demo Site.

COP attended USAID Contractor's meeting held on 13 February at USAID Maadi.

CTO attended monthly LIFE IWRM Project coordination meetings at MWRI, Cairo.

MWRI Integrated Water Management Unit (IWMU) continued to provide excellent coordination for the Project with MWRI entities to achieve Project objectives and facilitate implementation of Project activities in the field.

The 23 new IWMDs are fully functioning. The total number of IWMDs, including those formed under RSC/WP, is now 27 and includes all the Districts in the 5 target Directorates (New Zifta, W. Sharkiya, E. Qena, W. Qena, and Aswan). One of the 5 General Directors, 3 of the 27 IWMD managers, and 25% of the section heads are women. Monthly Directorate coordination meetings were held and monthly reports were prepared by all IWMD managers

and General Directors. Monthly maintenance coordination meetings were held. Integrated maintenance plans were prepared by all Districts. A maintenance database was installed at all IWMDs.

Formation of BCWUAs has been completed. The total number of BCWUAs in the 27 IWMDs is now 600. The BCWUAs serve 500,000 branch canal water users and cover more than 1000 branch canals (BC). Activation activities have been completed. This includes preparation of internal regulations, annual maintenance priorities, and action plans. Organizational and process documentation was compiled and transmitted to all BCWUAs. Participatory Water Management (PWM) activities continued for all BCWUAs. Monthly water advisory meetings were held at Directorate level. Participatory water management training was held by IWMD staff for BCWUA board members. Specific tasks and activities were assigned to all BCWUAs board members. All BCWUAs now have offices. BC maintenance activities implemented using local labors jointly supervised by BCWUA and Districts continued in 9 IWMDs on 18 BCs. 538 BCWUAs have documented success stories.

Information on water quality and water quantity data is being recorded, analyzed, and reported by all of the 27 IWMDs. The prioritized water monitoring/discharge measurement program for branch canals continued. Daily water level data for over 1000 sites are being entered by IWMD staff into a water level database. Seven Campbell Scientific data loggers supplied by Project for continuous flow monitoring at various critical water measurement locations are working without problems. Monthly water distribution meetings were held at Directorate level to improve IWMD coordination on assessment of water needs and allocation of water resources. The implementation of the Matching Irrigation and Supply and Demand (MISD) program continued. Biweekly data from the Ministry of Agriculture is being collected by the IWMDs on crops and cropping patterns. Water quality and groundwater monitoring continued in all IWMDs. Consolidation of water level, complaint, groundwater, water quality, and MISD databases at directorate-level was completed. Digital base maps showing canals, drains, and water monitoring sites for all 27 IWMDs have been completed. Reconciliation of branch canal areas based on the GPS data has been completed in all IWMDs. Integrated water management plan (IWMP) training was conducted in 4/5 Directorates and IWMP are under preparation by each IWMD. End of Project Information System Assessment was started.

To support Task 4: Improved Maintenance and Upgrading of Water Management Equipment a training module on irrigation pump maintenance for BCWUAs was prepared.

Task 5 activities continued in Senbo Village, Gharbiya Governorate, the pilot area selected for demonstrating environmental services for improving water quality management. The 600 m<sup>3</sup>/day Dual Flow Aerated Bio-filters (DBAF) waste water treatment facility constructed under the Project is under operation. Five persons have been employed under an OJT program by the Project to operate the DBAF. Discussions continued between MWRI, LIFE IWRM, Water & Waste Water Holding Company, and CDA on transfer of the DBAF.

GDA “Environmental Services for Improving Water Quality Management in Rural Areas in Egypt” between Coca Cola, USAID, MWRI, IRG, and UNICEF is under implementation. Activities continued in the villages of Damanhour El Wahsh & Shobra Kas (Gharbiya Governorate) and El Toud & Odiesat (Luxor, Qena Governorate). IRG will construct three waste water treatment facilities in three locations and provide ag waste recycle equipment to

two locations. Contracts were signed for construction of the WWTFs with local contractors. Ag waste recycle equipment was ordered.

The Luxor wastewater reuse demo site (Task 6) is operational. This activity is under direction of EEAA with support from MALR. Five crops are under cultivation. Marketing of flowers from the demo site continued. Training continued for seven new graduates. Environmental Evaluation report was prepared.

Seven persons are being sponsored for local MS Graduate Degree Training. Two persons are attending American University Cairo in environmental engineering. Five persons are attending local universities.

The MWRI Water Communication Unit continued compiling IWMD and BCWUA success stories from each of the 27 IWMDs. WCU published and distributed over 1500 copies of the 4<sup>th</sup> issue of quarterly newsletter on success stories. 10 Arabic banners were printed as posters and distributed to all IWMDs and BCWUAs. IWMD Guidelines (Arabic and English) were printed. Several USAID Success Stories were prepared and submitted to USAID for posting on the USAID website. BCWUAs Fact Sheets (6) were prepared.

Briefings were held for USAID, District Managers and General Directors on M&E findings to date. M&E Secondary data for Summer 2007 was reviewed. Monthly IWMD District Performance monitoring continued. Draft reports and process documentation to support LIFE IWRM Objectives & Indicators outlined in the Project M&E Plan were compiled.

The Project conducted 18 training events and sponsored 12 Monthly Meetings, 7 Maintenance Monthly Meetings, 12 Water Advisory Monthly Meetings, and 14 Water Distribution Meetings during the quarter period with over 781 trainees (17 % female).

Ten current meters purchased in the US cleared customs and were sent to MWRI Hydraulic Research Institute for calibration.

## II. ACCOMPLISHMENTS DURING THE REPORT PERIOD

### **Task 1: Formation of Integrated Water Management Districts**

Eng. Nabil Fawzi (LTTA, Local Water Resources Management Specialist) is the LIFE IWRM Regional Advisor for Upper Egypt. He is supported by Eng. Yehia Youssef (IWMU). Eng. Maher Khodary (LTTA, Water Resources Management Specialist) is the LIFE IWRM Regional Advisor for Lower Egypt. He is supported by Eng. Mohamed El Hamrawy (IWMU). Activities carried out during the report period:

- Monthly Directorate Coordination Meetings held.
- Monthly reports prepared by all IWMD managers & General Directors.
- Integrated maintenance plans completed and under review. At least 10% of BCWUA action plan items are to be included in the maintenance plans.
- Directorates provided to Irrigation Department recommendations for EGP 700,000/Directorate for small scale maintenance works based on priorities identified by BCWUAs.
- Directorate/IWMD Maintenance meetings held.
- Maintenance data base installed in all IWMDs.
- Collection of process documentation on Maintenance contracts being implemented by IWMDs completed.

### **Task 2: Formation of Branch Canal Water Users' Associations**

Eng. Moamen Mohamed Said El Sharkawy (IWMU) and Eng. Amira Abdel Hady (IWMU) are coordinating this task. Activities carried out during the report period under Task 2:

- Conducted monthly coordination meetings at Directorate level for the water advisory engineers. These meetings are held to coordinate, monitor, and follow up participatory water management activities among IWMDs in each Directorate.
- Assisted and organized training for all assigned BCWUAs board members on their specific tasks and activities under the framework of participatory water management within their IWMDs. About 3,400 board members (7% women) participated in this training.
- Followed up BCWUAs activation and participatory water management activities. These activities are provided for IWMD staff to engage BCWUAs in water management through specific activities regarding operation and maintenance of waterways, improvement of waste management and water quality through awareness, and communications with and within BCWUAs.
- Compiled all guidelines on BCWUA formation.
- Monitored BC maintenance activities using local labors jointly supervised by BCWUA & Districts in 9 IWMDs on 18 BCs in E. and W. Qena. Worked with USs/DGs in other Directorates to initiate and expand similar activities.
- Assisted IWMDs in preparing membership cards for all board members. Membership cards for all chairpersons have already been prepared.
- Organized USAID visits to the offices of Ganabiet El-Karnak El-Gharbiya (Luxor) and El-Sheikh Easa (Qena) BCWUAs.
- Malikia BCWUA, E. Edfu IWMD signed their MOU.

- Assisted IWMDs in developing and updating branch canals maintenance priorities with all BCWUAs in 27 IWMDs in preparation of action plans for the fiscal year 2008/2009.
- Assisted IWMDs in identifying office locations for BCWUAs. BCWUA office locations permanent & temporary have been identified for all 600 BCWUAs in the 27 IWMDs.
- Assisted and organized Central Directorate level BCWUA meetings based on the MWRI request to Directorates to review the list of prioritized maintenance activities proposed by BCWUAs for possible special funding. BCWUA Chairperson Meetings were held in W. Sharkiya, Zifta, and E&W Qena to discuss this issue.

The status of the BCWUA activities is summarized below:

Directorate	W. Sharkiya	New Zifta	E. Qena	W. Qena	Aswan	Total
Established	151	105	101	124	119	<b>600</b>
MOUs	101	105	101	124	119	<b>600</b>
Internal regulations	151	105	101	124	119	<b>600</b>
BC priorities	151	105	101	124	118 <sup>1</sup>	<b>599</b>
Action Plans	101	105	101	124	118 <sup>1</sup>	<b>599</b>

<sup>1</sup> Malikia BCWUA, E. Edfu IWMD will have priorities and action plan for the year 08/09

### Task 3: Equitable Allocation of Water Resources

Dr. Ragab Ali Abdel Azim (Water Resources Management Specialist) is coordinator for this task with assistance from Eng. Alaa Abbas (IWMU), Eng. Mohamed Hamed (IWMU), Eng. Hisham Shehab (IWMU), and Dr. Mohamed Rami Mahmoud (MWRI). Dr. Tom Sheng (IRG) provides expat short-term technical assistance. LIFE IWRM activities carried out during the report period under Task 3:

- Dr. Tom Sheng completed a 3 week assignment to initiate End of Project Information System Assessment. Dr. Sheng and Eng. Alaa Abbas visited each of the 27 IWMDs and the 5 Directorates.
- Monitoring and flow measurements continued at the main canal inflow/outflow sites, main drainage sites, and the prioritized branch canals continued in all IWMDs.
- Calculation of biweekly water supply to all 27 IWMDs continued.
- Data logger operations continued at 7 sites. A report on the Data Logger Telemetry program was issued. The project also supported installation of two data loggers purchased by MWRI for Daraw Regulator and Selsela PS in Aswan Directorate.
- Directorate IT teams made monthly visits to IWMDs. The IT teams now prepare monthly reports on the status of computers and submit these to their Directorate.
- MISD process ongoing in all 27 IWMDs and Directorates. Calculation of biweekly water demands continued.
- Water quality monitoring continued (over 380 sites).
- Well inventory continued in all IWMDs; 7000 wells inventoried.
- Water control structure inventory completed and under review.
- Directorate water distribution meetings held on monthly basis.
- DB User manuals updated to include Directorate versions prepared for MISD, complaints, water quality, and groundwater.

- MIC installed Beta version of Violations DB in W. Sharkiya & Qena E for testing.
- All BC command areas previously surveyed using GPS were reviewed with each IWMD and Directorate.
- Digital map consolidation at Directorate was initiated. Digital mapping refresher training conducted for all IWMDs.
- Training of technicians on canal operation completed in all IWMDs. Over 435 technicians & Baharies (gate keepers) trained on water management.
- A prioritized flow discharge calibration program for BCs continued in all IWMDs.
- Checking and review of MISD areas by MALR and MWRI completed in 24 IWMDs. MWRI has finalized areas for the remaining 3 and will present to MALR.
- IWRMP (Integrated Water Resource Management Plan) training completed in 4/5 Directorates. The training was attended by MWRI GW Sector (Head, US, &GD), Head WQU, Central Directorate Water Distribution (US & GD Tanta), MALR DGs, NAPWASD DGs, & MWRI (USs, GDs, IWMD DMs & WD section heads). Output will be IWRMPs.
- TA staff attended a two-day seminar on using sonic meters for canal flow measurements conducted by SonTek/YSI in Cairo (16 and 19 March).

#### **Task 4: Improved Maintenance and Upgrading of Water Management Equipment**

Dr. Wadie Fahim Mankarious (Senior Organization/Institutional Development Specialist) is coordinator for this task. Activities carried out during the report period:

- Training material for a pump maintenance course and a handout for BCWUAs were prepared.

#### **Task 5: Environmental Services for Improving Water Quality Management**

Dr. Wadie F. Mankarious (Senior Organization/Institutional Development Specialist) is coordinator for this task. He is assisted by Eng. Mohamed Hamed (IWMU). Activities carried out during the report period:

Senbo Pilot

- Senbo DBAF is operational. O&M is being conducted by local technicians selected by the CDA and trained by the project. O&M costs are being covered by the Project.
- Discussions continued with Gharbiya W&WW Company on transfer of the Senbo DBAF.

GDA:

- Ag waste recycle activities are being conducted at Shobra Kas (Gharbiya Governorate) and El Toud & Odiesat (Luxor, Qena Governorate). One rice straw press and 2 shredders will be provided to Shobra Kas. 4 shredders will be provided to El Toud & Odiesat (Luxor, Qena Governorate). Vendors for procurement of Ag. Waste recycle equipment were selected and contracts signed.
- Three WWTF will be constructed to serve the villages of Damanhour El Wahsh & Shobra Kas (Gharbiya Governorate) and El Toud & Odiesat (Luxor, Qena Governorate). Wastewater Treatment facility (WWTF) contractors were selected and contracts signed.
- Formation of work groups at Damanhour El Wahsh & Shobra Kas (Gharbiya Governorate) and El Toud & Odiesat (Luxor, Qena Governorate) was initiated. LIFE

IWRM is assisting UNICEF in this activity. The members of the work groups include Community Development Association, Branch Canal Water User Associations, and local council representatives. The Work Groups will be responsible for working with the WWTF contractors and receiving the ag waste recycle equipment.

- Letter for transfer of land for Luxor WWTF received.
- Report on data collection for the design of WWTF issued.
- GDA media event sponsored by Coca Cola was held on 12 March. A briefing was held in Cairo and the group visited Shobra Kas and Senbo.

### **Task 6: Improved Wastewater Reuse Practices**

Dr. Wadie Fahim Mankarious (Senior Organization/Institutional Development Specialist) is coordinator for this task. Short term technical assistance is also being provided by Eng. Awad Shafik (Demo Site Manager Consultant). Karim El-Jisr (ECODIT) is providing expat short-term technical assistance. Activities carried out during the report period:

- Marketing of flowers from the demo site in Luxor continued.
- Environmental monitoring continued.
- Training of the new graduates continued.
- Environmental Evaluation report issued.
- Dr. Moustafa El Hakeem, EEAA and Eng. M. Moustafa, MALR visited the site in Luxor and conducted training to the new graduates.
- Discussions on procedures for transfer of Demo site continued. A letter was sent to USAID requesting assistance on transfer of Luxor demo site and equipment.
- A visit was conducted to Luxor Demo Site on 16 March by USAID (Richard Rousseau, Eng. Wafaa Faltaous) and EEAA (Dr. Moustafa El Hakeem).

### **Task 7: Graduate Degree Training**

Dr. Ibrahim Ellassiouti (LLTA, Deputy Chief of Party) is the coordinator for this task. He is being assisted by Dahlia Hamdy (LTTA, Organizational and Institutional Development Specialist). Activities carried out during the report period by LIFE IWRM team included:

- Continued monitoring status and progress of 7 local trainees: two at American University Cairo, and 5 at local universities.
- Provided financial and logistical support for local trainees.

### **Monitoring and Evaluation**

Dr Ibrahim Ellassiouti (LLTA, DCOP) is coordinator for this activity. Eng Alaa Abbas (IWMU) is providing local STTA support. Dr. Mark Svendsen (DAI) is providing expatriate STTA support. Activities carried out during the report period included:

- Dr. Mark Svendsen (Expat. STTA) carried out an assignment from February 29 to March 18. He visited Qena and Aswan and briefed USAID, District Managers and General Directors on M&E findings to date and reviewed M&E Secondary data for Summer 2007.
- Completed collection of relevant secondary M&E data for Summer 2007 from all Project IWMDs.
- In collaboration with IWMU prepared sustainability plan for review by MWRI.
- Issued PO for El-Zanaty Associates to conduct EOP Farmer Field Survey.

- Monthly District Performance Profiles prepared by IWMDs.
- Prepared and compiled draft reports and process documentation to support LIFE IWRM Objectives & Indicators outlined in the Project M&E Plan.
- Issued PO for El-Zanaty Associates to conduct M&E Multi-Year Farmer Field Survey Data Analysis.

### **Education, Communication, Public Awareness and Participation**

Dr. Khalid Wassif (MWRI) provided STTA support for this Task. Patrick Papania (AED) is providing expatriate STTA support. Six members of the MWRI Water Communication Unit staff have been engaged in various cross-cutting communication activities including planning, shooting and editing video; still photography; and writing and design for program materials. Activities carried out during the reporting period by the communications team:

- Continued collection of success stories of BCWUAs (538/600). WCU with assistance from P. Papania continued work on a publication compiling success stories.
- Year 2008 Project Calendar printed.
- The Fourth issue of the quarterly newsletter on success stories was distributed.
- WCU continued work on fifth issue of IWMDs newsletter.
- 10 Arabic banners printed as posters and distributed to all IWMDs and BCWUAs.
- IWMD Guidelines (Arabic and English) were printed.
- P. Papania (AED) prepared and submitted several USAID Success Stories.
- Task 2 BCWUA Fact Sheets (6) completed.
- Continued to work on design strategy for producing and broadcasting TV airtime for awareness of project messages.
- WCU with assistance from P. Papania continued work on video film of BCWUA Participatory Water Management (PWM), a brochure on most Frequent Asked Questions regarding IWMDs (FAQ), and a District Template and Brochure (Arabic).

### **Training**

Dahlia Hamdy (LTTA, Organization/Institutional Development Specialist) is coordinator for this component. Activities carried out during the report period by LIFE IWRM team:

- Prepared, coordinated, and followed up with the regional offices in Lower and Upper Egypt for all project related training programs.
- Compiled documentation for each training event.
- Monitored status and progress of local MS Trainees: two at American University Cairo, and 5 at local universities.
- Provided financial and logistical support for all trainees.
- Maintained Project training database.

The following table shows the number of participants which have been trained under the project through the end of the reporting period.

<b>Total to Date</b>			<b>Quarterly Total</b>		
<b>Total</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>	<b>Male</b>	<b>Female</b>
11768	10020	1748	781	647	134

Training conducted during the reporting period is listed below:

ID	Course Title	Task	Events	Date	Venue
8.2	Directorate Monthly Meeting	1	12	Monthly	Each Directorate
1.8	Maintenance Monthly Meeting	1	7	Monthly	Each Directorate
1.12.1	Maintenance Database Training	1	4	Mar 08	Qena, Aswan & Zifta
2.4.6	Water Advisory Monthly Meeting	2	12	Monthly	Each Directorate
3.4.1	Digital Mapping Refresher	3	3	Jan 08	E. & W. Qena & Zifta
3.4.2	Canal Operation	3	2	Jan 08	Upper Egypt
3.4.3	Integrated Water Management Plan	3	3	Feb – Mar 08	W. Sharkiya, Zifta & Qena
3.4.6.1	Tiled Drainage Maintenance	3	2	Feb – Mar 08	Zifta & East Qena
3.4.6.2	Maintenance of Canal Linings	3	1	Feb 08	Zifta
3.4.7	Violation Database	3	2	Feb 08	W. Sharkiya & Qena
3.3.14	Water Distribution Meeting	3	14	Monthly	Each Directorate
6.4.2	Improving Water Reuse Practices	6	1	Jan 08	Luxor

### Procurement

Mahmoud Said, (LLTA Procurement Officer) is responsible for this activity. Activities carried out during the report period by LIFE IWRM team included:

- Continued preparation of specifications and procurement of project equipment as required.
- Continued to install and transfer all supplied equipment to MWRI.
- Continued to maintain equipment supplied under project.
- 10 current meters purchased in the US cleared customs and sent to MWRI Hydraulic Research Institute for calibration.

### III. ACTIVITIES PLANNED FOR NEXT QUARTER

#### **Task 1: Formation of Integrated Water Management Districts**

The following activities are planned for the next quarter:

- Conduct monthly coordination meetings with MWRI managing staff.

#### **Task 2: Formation of Branch Canal Water Users' Associations**

The following activities are planned for the next quarter:

- Follow up BCWUAs activation in all IWMDs.
- Assist Directorates in conducting annual coordination meetings with BCWUAs.
- Assist IWMDs in conducting summer seasonal meetings with their BCWUAs Chairpersons.
- Support IWMD staff in implementing participatory water management activities with all BCWUAs.
- Support IWMD staff in raising awareness to the assigned BCWUAs board members on their tasks concerning participatory water management activities.
- Continue assisting IWMDs in compiling process documentation.
- Complete production of BCWUA boundary digital maps.
- Support IWMDs in assisting BCWUAs to identify permanent offices.

#### **Task 3: Equitable Allocation of Water Resources**

The following activities are planned for the next quarter:

- Dr. Tom Sheng (Expat. STTA) will carry out an assignment in June.
- Finalize the approval on MISD and BCs areas through coordination between MALR and MWRI.
- Continue support to all water monitoring activities (water levels, discharges, and water quality).
- Support IWMD collection of BC flow measurements and tabulation of data for calibration.
- Conduct monthly water distribution coordination meetings.
- Complete Integrated Water Management training for IWMDs and Directorate staff and collect IWRM plans
- Continue support to MISD activities and MISD database consolidation at central level (General Directorate for Water Distribution). The approved MISD areas will be used in the database.
- Finalize water structure inventory.
- Finalize digital map consolidation at Directorate.
- Hold MALR and MWRI coordination meeting to support implementation of IWRM plans and MISD activities.
- Prepare draft End of Project Information Assessment

#### **Task 4: Improved Maintenance and Upgrading of Water Management Equipment**

The following activities are planned for the next quarter:

- Distribution of the training material for pump maintenance.

- Conduct training of BCWUAs on the material for pump maintenance.

### **Task 5: Environmental Services for Improving Water Quality Management**

The following activities are planned for next quarter:

Senbo Pilot:

- Transfer the DBAF in Senbo to Tanta Water & Wastewater Company or CDA as recommended by MWRI.

GDA:

- Continue construction of the 3 WWTF.
- Procure and install equipment for ag waste recycle program for 2 locations.

### **Task 6: Improved Wastewater Reuse Practices**

The following activities are planned for the next quarter:

- Continue monitoring of water quality and cultivated crops.
- Complete training of the new graduates.
- Continue marketing of crops.
- Prepare a brochure on the activity.
- Conduct a special Feasibility Economic Study on Jatropha as requested by EEAA.
- Conduct a final work shop for the private sector and stakeholders in Luxor
- Transfer of the Demo site.

### **Task 7: Graduate Degree Training**

The following activities are planned for the next quarter:

- Continue monitoring status and progress of all trainees.
- Providing financial and logistical support for trainees.

### **Monitoring and Evaluation**

The following activities are planned for the next quarter:

- Dr. Mark Svendsen (Expat. STTA) will carry out an assignment during May/June.
- Implement a training program for district staff serving as Survey Enumerators and Supervisors for the Farmer Field Survey.
- Conduct Farmer Field Survey in 27 districts.
- Collect Secondary M&E data for all project IWMDs for Winter 2007/2008.
- Review Field Survey Report.
- Prepare M&E Report for Year 4.
- Prepare draft End of Project M&E report
- Review the M&E Multi-Year Farmer Field Survey Data Analysis.

### **Education, Communication, Public Awareness and Participation**

The following activities are planned for the next quarter:

- Complete collection of success stories of BCWUAs. WCU with assistance from P. Papania will finalize work on a publication compiling success stories.
- Distribute IWMD Guidelines (Arabic & English).
- Complete design strategy for providing and broadcasting TV airtime for awareness of project messages (P. Papania).
- Produce the Fifth issue of IWMD newsletter.
- WCU will work on 6<sup>th</sup> issue of the IWMDs newsletter.
- WCU with assistance from P. Papania will complete work on Video film of BCWUA Participatory Water Management (PWM), a brochure on PWM, a brochure on most Frequent Asked Questions regarding IWMDs (FAQ), and a District Template and Brochure (Arabic).

### Training

The following training courses are planned for the next quarter:

ID	Course Title	Task	Events	Date	Venue
8.2.131	Directorate Monthly Meeting	1	12	Apr – Jun 08	Each Directorate
1.8.18	Maintenance Monthly Meeting	1	15	Apr – Jun 08	Each Directorate
2.4.6.23	Water Advisory M. Meeting	2	15	Apr – Jun 08	Each Directorate
2.4.5.1	BCWUAs Annual Coordination Meeting	2	9	Apr – May 08	Each Directorate
3.3.14.80	Water Distribution Meeting	3	15	Apr – Jun 08	Each Directorate
3.4.3.4	Integrated Water Management Plan	3	1	Apr 08	Aswan
3.4.6.4	Tiled Drainage Maintenance	3	1	Apr 08	Aswan
5.4.1	GDA Monthly Meeting	5	1	Apr – Jun 08	Cairo
6.1.2	Growing Flowers Training	6	1	Apr 08	Luxor
6.2.26	OJT for Graduates on Reuse of Treated Waste Water in Agriculture	6	3	Apr – Jun 08	Luxor
8.6.20	M&E Survey Data Collectors	M&E	4	Apr -May 08	Each Directorate

### Procurement

Projected procurement activities for next quarter include the following activities:

- Complete procurement, supply, and installation of commodities.
- Finalize demobilization MWRI equipment transfer procedures

#### IV. PROBLEMS AND ISSUES

##### **Task 1: Formation of Integrated Water Management Districts**

Sustainability of the IWMDs after completion of the Project is dependent on appropriate budget and support from MWRI. The Project is working with USAID and MWRI to address these issues. MWRI prepared and submitted a sustainability plan to USAID.

Guidelines for Implementation of Integrated Water Management Districts have been prepared. WCU is developing printed material for most frequent asked questions (FAQ) regarding IWMDs.

Shortage of managing staff (engineers) in Aswan directorate remains an issue. This has been raised to the attention of the MWRI.

IWMDs are responsible for more tasks than the previous irrigation districts. Their needs in terms of budget, facilities, and resources are greater. The Project continues to work with MWRI to identify those needs and address them.

The drainage maintenance budgets have not yet been transferred from EPADP to the Irrigation Department. This creates serious delays and issues for drainage maintenance. The Project continues to work with MWRI to solve this problem.

##### **Task 2: Formation of Branch Canal Water Users' Associations**

The establishment of BCWUAs will be sustainable only if these associations bring tangible benefits to their members and thus achieve credibility.

The Project has trained the IWMD staff and BCWUAs in all 27 IWMDs on Participatory Water Management. The IWMD staff has been provided with tools and procedures for working with the BCWUAs. A BCWUAs board members training program was implemented to better explain roles and responsibilities of the BCWUAs regarding their participation in specific water management activities such as operation and maintenance of waterways, improvement of waste management and water quality, and communications with and within BCWUAs.

##### **Task 3: Equitable Allocation of Water Resources**

Activities such as water monitoring and data management require continuing technical support to IWMD staff. In order to ensure the sustainability of such activities, the Project is mobilizing and building the capacity of support staff at Directorate level.

10 current meters were purchased and will be provided to IWMDs to support water monitoring program particularly at BC level.

Because of the success of the data logger activity, using their own funds MWRI procured 26 data loggers from Campbell Scientific Instrument and is planning to procure an additional 54.

**Task 4: Improved Maintenance and Upgrading of Water Management Equipment**

None at this time.

**Task 5: Environmental Services for Improving Water Quality Management**

Ownership of the Senbo WWTF and costs for O&M must be transferred from the Project. Discussions continued between MWRI, LIFE IWRM, Water & Waste Water Holding Company on transfer of Senbo DBAF WWTF with no action from the company.

The Senbo CDA has been unable to provide the land and a tractor for implementation of the agricultural residual recycles activity. Other alternatives are under investigation.

**Task 6: Improved Wastewater Reuse Practices**

Transfer of the Luxor demo site from the Project to EEAA or who ever recommended will take time. USAID has sent a letter to EEAA asking for a transfer plan.

**Task 7: Graduate Degree Training**

None at this time.

**Monitoring and Evaluation**

None at this time.

**Education, Communication, Public Awareness and Participation**

None at this time.

**Training**

None at this time.

**Procurement**

None at this time.

## V. STAFF LEVEL OF EFFORT

The LIFE IWRM LTTA and STTA professional, technical, and administrative support staff for the quarter are shown below:

**RESIDENT STAFF****EXPATRIATE**

NAME	POSITION
Dr. Jeff Fredericks	Chief of Party

**LOCAL EGYPTIAN**

NAME	POSITION
Dr. Ibrahim El Assiouty	Deputy Chief of Party
Dr. Wadie Fahim Mankarious	Senior Organization/Institutional Development Specialist
Eng. Nabil Fawzi	Water Resource Mgt Specialist (Upper Egypt)
Eng. Maher Khodary	Water Resource Mgt Specialist (Lower Egypt)
Dr. Ragab Abdel Azim	Water Resources Management Specialist
Mahmoud Said	Financial/Procurement Officer
Dahlia Hamdy	Organization/Institutional Development Specialist
Amany Mahmoud	Office and Personnel Manager
Nahid Nabil	Administrative Assistant (Upper Egypt)

**SHORT TERM STAFF DURING THE REPORT PERIOD****EXPATRIATE**

NAME	POSITION
Dr. Mark Svendsen	Senior M&E Specialist
Dr. Tom Sheng	Senior Water Resources Information Systems Specialist
Bonnie Grover	English Language Technical Editor
Patrick Papania	Sr. Environmental Education & Awareness Specialist

**LOCAL EGYPTIAN**

NAME	POSITION
Eng. Alaa Abass	Water Resource Information Specialist
Eng. Hisham Shehab	Water Monitoring Specialist
Eng. Moamen El Sharkawy	Water Resource Organizational/Institutional Specialist
Eng. Amira Abdel Hady	Water Resource Organizational/Institutional/Gender Specialist
Eng. Mohamed Hamed A. Latif	Water Quality Environmental Specialist
Dr. Hussein El Atfy	Senior Management/Institutional Specialist
Dr. Khaled Wassif	Senior Ed., Comm. and PA Specialist
Dr. Mohamed Rami Mahmoud	Senior Water Resources Information Specialist
Eng. Safaa Khodary	IT Specialist
Eng. Mohamed El Hamrawy	Water Resources and Irrigation Specialist
Eng. Yehia Mohamed Youssof	Water Resources and Irrigation Specialist

## VI. STATUS OF FINANCES AND EXPENDITURES

Financial summary for the reporting period January – March 2008 is presented below:

**USD Budget**

Budget Line Item	Budgeted	Obligated	Current Claim	Claims to Date	Remaining Balance	% Budget Claimed	Remaining Obligation Balance	% Obligation Claimed
Direct and Consultant Labor	1,337,507		146,698	1,341,528	-4,021	100		
Other Direct Costs	4,756,111		362,214	3,741,861	1,014,250	79		
Subcontractor Handling Fee	53,486		1,871	37,943	15,543	71		
Fixed Fee	338,090		28,093	281,776	56,314	83		
<b>Total Cost Plus Fixed Fee</b>	<b>6,485,194</b>		<b>538,875</b>	<b>5,403,108</b>	<b>1,082,086</b>	<b>83</b>		
GDA Component	230,000		17,662	27,027	202,973	12		
<b>Total Cost Plus Fixed Fee</b>	<b>6,715,194</b>	<b>6,715,194</b>	<b>556,537</b>	<b>5,430,136</b>	<b>1,285,058</b>	<b>81</b>	<b>1,285,058</b>	<b>81</b>

Source: IRG 3005-001 Invoices #1 to 41; estimate # 42. 3005-004 (GDA) Invoices #1 to 5; estimate #6

**LE Budget**

Budget Line Item	Budgeted	Obligated	Current Claim	Claims to Date	Remaining Balance	% Budget Claimed	Remaining Obligation Balance	% Obligation Claimed
Direct and Consultant Labor	6,777,427		0	5,014,477	1,762,950	74		
Other Direct Costs	15,290,311		0	16,721,213	-1,430,902	109		
Subcontractor Handling Fee	98,769		0	54,658	44,111	55		
Fixed Fee	1,219,157		0	1,198,469	20,688	98		
<b>Total Cost Plus Fixed Fee</b>	<b>23,385,664</b>		<b>0</b>	<b>22,988,817</b>	<b>396,847</b>	<b>98</b>		
GDA Component	1,539,000		0	218	1,538,782	0		
<b>Total Cost Plus Fixed Fee</b>	<b>24,924,664</b>	<b>24,924,664</b>	<b>0</b>	<b>22,989,035</b>	<b>1,935,629</b>	<b>92</b>	<b>1,935,629</b>	<b>92</b>

Source: IRG 3005-002 Invoices #1 – 27.

## VII. LIST OF REPORTS

No.	NAME	Date
1	Annual Work Plan Year 1 (October 2004 – September 2005)	Dec 2004
2	Quarterly Report (October - December 2004)	Jan 2005
3	Monitoring and Evaluation Plan	Feb 2005
4	Quarterly Report (January - March 2005)	Apr 2005
5	Quarterly Report (April - June 2005)	Jul 2005
6	Task 5: Senbo Village Household Survey	Apr 2005
7	Task 5: Alternative Methods for Solid Waste Management and Treatment and Disposal of Wastewater	Jul 2005
8	Task 5: Technical Report with Specifications & Table of Quantities of Sewage Pump Station & Treatment Plant for Senbo Village Zifta Markaz – Gharbiya Governorate	Jul 2005
9	Task 4: Assessment of Egyptian Farmers' Need for Improved Maintenance of Irrigation Equipment and Training to Manage Water Users' Associations	Aug 2005
10	Monitoring and Evaluation: Field Survey of Farmers in Twenty Seven IWMDs	Sep 2005
11	Task 1: Establishing Integrated Water Management Districts	Aug 2005
12	Violations Data Base User Manual (Arabic)	Aug 2005
13	Complaints Data Base User Manual (Arabic)	Aug 2005
14	MISD Software User Manual (Arabic)	Aug 2005
15	Task 5: Design and Cost Analysis of Ag Wastes Recycling Alternatives for Senbo Village	Aug 2005
16	Annual Work Plan Year 2 (October 2005 – September 2006)	Aug 2005
17	Annual Report Year 1 (2004 – 2005)	Oct 2005
18	Water Level Data Base User Manual (Arabic)	Oct 2005
19	Monitoring and Evaluation Report Year 1	Oct 2005
20	Information System Year 1 Assessment	Oct 2005
21	Task 6: Design of Irrigation Network for the Luxor Demonstration Site	Sep 2005
22	Task 6: Environmental Monitoring Plan for the Luxor Demonstration Site	Nov 2005
23	Quarterly Report (October - December 2005)	Jan 2006
24	Quarterly Report (January - March 2006)	Apr 2006
25	Task 6: Irrigation and Crop Management Plan	May 2006
26	Monitoring and Evaluation: Field Survey of Farmers in Twenty Seven IWMDs (Year 2)	Sep 2006
27	Annual Work Plan Year 3 (October 2005 – September 2006)	Sep 2006
28	Information System Year 2 Assessment	Oct 2006
29	Annual Report Year 2 (2005 - 2006)	Oct 2006
30	Task 4: Updated Assessment of Egyptian Farmers' Need for Improved Maintenance of Irrigation Equipment and Training to Manage Water Users' Associations	Oct 2006
31	Monitoring and Evaluation Report Year 2	Oct 2006
32	Quarterly Report (September - December 2006)	Jan 2007
33	Task 6: Economic Feasibility Study of Using Treated Wastewater in Irrigation	Mar 2007
34	Quarterly Report (January - March 2007)	Apr 2007
35	Quarterly Report (April – June 2007)	Jul 2007
36	Monitoring and Evaluation: Field Survey of Farmers in Twenty Seven IWMDs (Year 3)	Sep 2007
37	Information System Year 3 Assessment	Sep 2007
38	Monitoring and Evaluation Report Year 3	Sep 2007
39	Annual Work Plan Year 4 (October 2006 – September 2007)	Sep 2007
40	Annual Report Year 3 (2006 - 2007)	Oct 2007
41	Quarterly Report (September - December 2007)	Jan 2008
42	Guidelines for Implementation of Integrated Water Management Districts	Jan 2008
43	GDA: Data Collection for Design of Wastewater Treatment Facilities	Jan 2008
44	Task 3: Data Logger Based Telemetry Monitoring System for IWMDs	Mar 2008
45	Task 6: Environmental Evaluation Of Using Treated Wastewater In Agriculture: Luxor Demo Site	Mar 2008