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Ministry of Water Resources and Irrigation

**LIFE Integrated Water Resources Management
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Quarterly Report

Year 4: 3rd Quarter
(April - June 2008)
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QUARTERLY REPORT
Year 4: 3rd Quarter
(April – June 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) 3rd Quarter covering the period from April to June 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:

Evaluation team from Weidemann Associates, USA, carried out LIFE IWRM Project evaluation from April 20 to May 8.

MWRI Steering Committee meeting was held on 20 May to discuss project sustainability.

GDA Steering Committee meeting was held on 4 June to discuss progress.

Task 6 Steering Committee meeting was held on 12 June to discuss transfer of the Luxor Demo site.

Head of Irrigation Department held a meeting on 11 June on Sustainability of LIFE Project IWMDs. All US, GDs from 5 target Directorates and 27 IWMD District Managers attended. IWMU (Eng. Gamil Mahmoud) and LIFE IWRM staff participated.

Dr. Mark Svendsen (Expat M&E specialist) briefed USAID on final results of LIFE IWRM M&E program on 11 June.

Dr. Tom Sheng (Expat Water Resources IS specialist) presented his EOP IS assessment findings to USAID on 19 June.

Russell Misheloff, Project IQC Manager, carried out an assignment from 8-26 June to assist in preparation of the Draft Final report and the Demobilization Plan.

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. Process documentation on maintenance contracts was completed. Water control structure inventory completed.

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. Participatory Water Management (PWM) activities continued for all BCWUAs. Monthly water advisory meetings were held at Directorate level. WA/BCWUAs databases installed at IWMDs and Directorates. Assisted and organized BCWUAs board members on their specific tasks and activities under the framework of participatory water management within their IWMDs. BCWUAs monthly rotation schedule/satisfaction performance monitoring and evaluation forms were collected by IWMDs. IWMDs continued collecting seasonal crop data from BCWUAs. All BCWUAs now have offices. Maintenance priorities updated for all BCWUAs in 27 IWMDs and action plans for the fiscal year 2008/2009 were prepared. BCWUAs Annual Coordination meetings with Chairpersons conducted. Annual Meetings were held between BCWUA Representatives Assembly and Board Members. BCWUAs re-elections are ongoing in several of the IWMDs. 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. Checking and review of MISD areas by MALR and MWRI completed in all IWMDs. All BC command areas previously surveyed using GPS were reviewed with each IWMD and Directorate. Water quality and groundwater monitoring continued in all IWMDs. Directorate IT teams made monthly visits to IWMDs. IWRM plans were completed in all IWMDs and Directorates. End of Project Information System Assessment completed.

To support Task 4: Improved Maintenance and Upgrading of Water Management Equipment a training module on irrigation pump maintenance for BCWUAs was delivered and distributed to IWMDs for distribution by IWMDs to BCWUAs.

Task 5 activities continued in Senbo Village, Gharbiya Governorate, the pilot area selected for demonstrating environmental services for improving water quality management. The 600 m³/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 USAID, MWRI, LIFE IWRM, Water & Waste Water Holding Company, and CDA on transfer of the DBAF. The Senbo CDA has been unable to provide the land and a tractor for implementation of the agricultural residual recycles activity.

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 began construction of three waste water treatment facilities (WWTF) in three locations and provided ag waste recycle equipment to two locations. The El Toud Local Council (Luxor) has objected to the location of the WWTF. IRG received a letter from MWRI with instructions to postpone work at the El Toud, Luxor worksite until the issue with the local council is resolved. Electricity hook-up at all sites, connection of sewage network to Damanhour El Wahsh WWTF site, and potable water connection to at Damanhour El Wahsh & El Toud remain unsolved issues. UNICEF and IRG with assistance from MWRI are working with the local CDA consortiums and concerned Governorate officials to resolve these problems.

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 monitoring continued. A draft feasibility economic study on Jatropha was prepared. At the request of USAID, EEAA prepared a site management plan showing how the site will be managed after the completion of the project. A Task 6 Committee meeting was conducted at EEAA on June 12. Committee members from EEAA, MALR, USAID, and LIFE IWRM agreed to transfer the Demo site to MSEA/EEAA.

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.

Monthly IWMD District Performance monitoring continued. Year 4 farmer field survey was conducted in 27 districts. End of project (EOP) M&E evaluation was conducted and Year 4 M&E report is under preparation. A briefing was held to present EOP M&E findings to USAID.

The MWRI Water Communication Unit completed collection of BCWUA success stories from each of the 27 IWMDs. A publication compiling success stories is under preparation. WCU published and distributed over 1500 copies of the 5th issue of quarterly newsletter on BCWUA success stories. IWMD Guidelines (Arabic and English) were distributed. Preparation of a video film on BCWUA and several brochures on such topics participatory water management, frequent asked questions on IWMDs, a district template for IWMDs, and reuse of treated wastewater are on-going. LIFE IWRM staff participated in several IWMD concept workshops organized by Fayoum Water Users Organization Project. Planning for a final project workshop to be held in August 2008 was started.

The Project conducted 13 training events during the quarter period with over 781 trainees (17 % female).

Ten current meters purchased in the US were calibrated by MWRI Hydraulic Research Institute and distributed to IWMDs and Directorates. Non-Expendable Equipment Transfer List for Demobilization Report prepared.

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). Eng. Mohamed Hamed (IWMU) provided local STTA support for the maintenance program. Activities carried out during the report period:

- Monthly Directorate Coordination Meetings held.
- Monthly reports prepared by all IWMD managers & General Directors.
- Water control structure inventory completed.
- Water structure inventory database being converted into a GIS format for map presentation.
- Completed collection of process documentation on Maintenance contracts.

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 BCWUAs board members on their specific tasks and activities under the framework of participatory water management within their IWMDs.
- 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. Worked with project areas USs/DGs to initiate and expand similar activities.
- Assisted IWMDs in finalizing membership cards for all board members. Membership cards for all chairpersons have already been prepared.
- Assisted IWMDs in developing and updating Action plans with all BCWUAs in 27 IWMDs in coordination with the districts integrated maintenance 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 Annual Directorate level BCWUAs Chairpersons meetings to review the status of activities of the past season and proposed activities for the upcoming season. BCWUA Chairperson Meetings were held in W. Sharkiya, Zifta, Aswan, and E&W Qena.

- At the request of USAID, IWMU prepared a note on BCWUAs/Amendment of Law #12.

The status of the BCWUA activities is summarized below:

Directorate	W. Sharkiya	New Zifta	E. Qena	W. Qena	Aswan	Total
Activity						
Established	151	105	101	124	119	600
MOUs	151	105	101	124	119	600
Internal regulations	151	105	101	124	119	600
BC priorities	151	105	101	124	119	600
Action Plans	151	105	101	124	119	600

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 2 week assignment to complete End of Project Information System Assessment.
- 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; 9000 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.

- Checking and review of MISD areas by MALR and MWRI completed in all IWMDs.
- IWRMP (Integrated Water Resource Management Plan) training completed in all 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.
- Preparation of IWRM plans completed in all IWMDs and Directorates. Plans are being collected by the project to be submitted to Irrigation Sector.
- MISD database at Regional Level (General Directorate of Water Distribution for Lower Egypt) was developed to consolidate MISD databases of West Sharkia, Zifta and Middle Delta Directorates. Data can then be sent to Central Level of MWRI (Central; Directorate of Water Distribution).

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 was prepared, delivered and distributed to IWMDs for distribution by IWMDs to BCWUAs.
- By this activity, Task 4 Completed

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.
- Two meetings were conducted with Senbo CDA & BCWUA to discuss the transfer of the WWTF. One was on 21 April and the other was on May 19. CDA is not willing to take it over. Alternatives are under investigation.
- A clarification memo was prepared for USAID on design capacity of Senbo DBAF.

GDA:

- One press and two shredders (Ag. Waste recycle equipment) were delivered to Shobra Kas CDA.
- Four shredders (Ag. Waste recycle equipment) were delivered to Al toud and Odiesat villages in Luxor, Qena. Two shredders were delivered to each village. Equipment were tested and transferred to the nominated association in each village. The ceremony was documented on a video film.
- Report on Ag. Waste recycle equipment delivered to the three sites issued.
- Construction of the three WWTF in the selected villages of Damanhour El Wahsh & Shobra Kas (Gharbiya Governorate) and El Toud & Odiesat (Luxor, Qena Governorate) continued. Construction is expected to be completed by mid-July.

- El Toud Local Council raised an objection concerning the possibility the WWTF may pollute the River Nile. Project staff and MWRI attended several meetings with the Council to clarify the situation. The issue has become a major.
- Steering committee meeting attended by MWRI, Coca Cola, USAID, UNICEF, and IRG was held at Coca Cola on June 4.
- UNICEF continued working with the Working groups to resolve the electricity and connection of potable water issues in the three sites.
- Water connected to Shobra Kas WWTF site.
- No progress on the sewage net work connection to Damanhour El Wahsh WWTF site.
- Quarterly report was prepared and sent to USAID/WADA

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.
- Training of the new graduates continued.
- Environmental monitoring continued.
- USAID sent a letter to EEAA requesting a site management plan showing how the site will be managed after the completion of the IRG contract.
- A Coordination meeting was conducted at EEAA on June 12. Committee members from EEAA, MALR, USAID, and LIFE IWRM participated. Dr. Mawaheb Abu Elazm Chairperson, EEAA, and Richard Rousseau, Office Director Agriculture, Environment, Water, and Information & Communication Technology, USAID attended.
- Decision was taken to transfer Task 6 Luxor Demo site to MSEA/EEAA
- Dr. Moustafa El Hakeem visited the site on June 18.
- Draft Report of the Economic Feasibility Study on Jatropha is under review.
- Planning for Final work shop to be held in Cairo is on-going. USAID and EEAA will decide and suggest invitees.

Task 7: Graduate Degree Training

Dr. Ibrahim Elassiouti (LLTA, Deputy Chief of Party) is the coordinator for this task. He is being assisted by Dahlia Hamdy (LTTA, Financial/Training Officer). Activities carried out during the report period by LIFE IWRM team included:

- Continued monitoring status and progress of local MS Trainees:
 - Two persons are attending American University in Cairo in Environmental Engineering; both are preparing their theses.
 - Five persons are attending local universities; two completed their theses and three still working on them.
- Provided financial and logistical support for all 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:

- Implemented a training program for district staff serving as survey Enumerators and Supervisors for the Farmer Field Survey.
- Conducted Farmer Field Survey in 27 districts.
- Collected Secondary M& E data for all project IWMDs for winter 2007/ 2008.
- Dr. Mark Svendsen (expat. STTA) carried out an assignment from May 14 to June 13. He briefed USAID and IWMU on end of project M& E results.
- Prepared draft Year 4 M& E report.
- Monthly District Performance profiles prepared by IWMDs.
- El Zenaty Associates prepared the draft Field Survey of farmers in Twenty-Seven IWMDs report in Arabic and English.

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:

- Completed collection of success stories of BCWUAs. WCU with assistance from P. Papania finalized work on a publication compiling success stories.
- Produced the fifth issue of IWMD newsletter.
- WCU with assistance from P. Papania completed shooting video film on BCWUA, a brochure on participatory Water Management (PWM), a brochure on most frequent asked questions regarding IWMDs (FAQ).
- Distributed IWMD Guidelines (Arabic & English).
- Maintained project web-site (<http://www.iwrmeg.org/>) and photo archive.
- LIFE IWRM staff attended a GDA workshop for implementing partners on May 12 at USAID Maadi.
- LIFE IWRM staff and District Manger from Birket El Saba participated in a workshop organized by Fayoum Water Users Organization Project for Fayoum engineers held in Fayoum on 14 May to discuss concepts of IWMD.
- LIFE IWRM staff and District Manger from Zagazig participated in a second workshop organized by Fayoum Water Users Organization Project for Fayoum engineers held in Fayoum on 10 June to discuss concepts of IWMD. Head of
- Irrigation Department held a meeting on 11 June on Sustainability of LIFE Project IWMDs. All US, GDs from 5 target Directorates and 27 IWMD District Managers attended. IWMU (Eng. Gamil Mahmoud) and LIFE IWRM staff participated.
- LIFE IWRM staff participated in the “Preparations for Establishing First Regional Water Management Authority” workshop organized by MWRI IRU in Alexandria on 29 June.

Training

Dahlia Hamdy (LTTA, Financial/Training Officer) 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.

Total to Date			Quarterly Total		
Total	Male	Female	Total	Male	Female
12831	10992	1839	1063	972	91

Training conducted during the reporting period is listed below:

ID	Course Title	Task	Events	Date	Venue
8.2	Directorate Monthly Meeting	1	4	April	Each Directorate
1.8	Maintenance Monthly Meeting	1	4	April	Each Directorate
2.4.6	Water Advisory Monthly Meeting	2	6	April / May	Each Directorate
2.4.5	BCWUAs Annual Coordination Mtg.	2	4	April	Each Directorate
3.4.3	Integrated Water Management Plan	3	1	April	Aswan
3.4.6.4	Tiled Drainage Maintenance	1	1	April	W.Sharkiya
3.4.6.7	Unit Cost	1	1	April	W.Sharkiya
3.4.6.8	Tender & Bids	1	1	April	W.Sharkiya
3.3.14	Water Distribution Meeting	3	9	April / May	Each Directorate
5.4.5	OJT Training during Construction of WWTF	GDA	6	April /May	Luxor, El Santa & S.Zifta
6.2	Growing Flowers for Graduates	6	1	April	Luxor
8.6	Survey Data Collectors	C.C	4	April/May	Each Directorate

Procurement

Mahmoud Said, (LLTA Procurement Officer) was responsible for this activity. He departed the project on 31 May. He was replaced by Amany Mahmoud. 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 calibrated by MWRI Hydraulic Research Institute distributed to IWMDs and Directorates.
- Prepared Non-Expendable Equipment Transfer List for Demobilization Report.

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.
- Participate in Final Workshop
- Finalize Project Final Report
- Transfer Project Equipment to MWRI

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.
- 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.
- Support IWMD staff in performing re-election for BCWUAs boards.
- Continue assisting IWMDs in compiling process documentation.
- Complete production of BCWUA boundary digital maps.
- Support IWMDs in assisting BCWUAs to identify permanent offices.
- Participate in Final Workshop
- Finalize Project Final Report

Task 3: Equitable Allocation of Water Resources

The following activities are planned for the next quarter:

- Support IWMD collection of BCs flow measurements and tabulation of data for calibration for the first stage of BCs calibration plan.
- Support IWMDs to start the second stage of BC calibration.
- Continue support to MISD activities and MISD database consolidation at central level (General Directorate for Water Distribution).
- Follow up on IWMPs implementation.
- Finalize water structure inventory.
- Issue Final IS Assessment Report
- Participate in Final Workshop
- Finalize Project Final Report

Task 4: Improved Maintenance and Upgrading of Water Management Equipment

Completed

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.

GDA:

- Resolve the issues concerning the WWTFs in the three sites.
- Complete construction, testing, training of operators and turnover of the 3 WWTF.
- Work with UNICEF on training beneficiaries in the two selected sites on utilizing the ag waste recycle equipment.

Task 6: Improved Wastewater Reuse Practices

The following activities are planned for the next quarter:

- Prepare and print a brochure on the activity.
- Prepare a documentary film on Luxor Demo Site.
- Issue the Feasibility Economic Study on Jatropha.
- Conduct a final work shop for the private sector and stakeholders
- Complete the transfer of the Demo site according to the Steering Committee recommendation.
- Finalize Project Final Report

Task 7: Graduate Degree Training

The following activities are planned for the next quarter:

- Continue monitoring status and progress of all trainees.
- Provide logistical support for trainees.
- Graduation of two local MS Degree Students one from Cairo University and one from Ein Shams University.

Monitoring and Evaluation

The following activities are planned for the next quarter:

- Finalize M& E report for Year 4.
- Finalize Year 4 Farmer field Survey Report (both Arabic and English).
- Monthly District Performance profiles to be prepared by IWMDs.

Education, Communication, Public Awareness and Participation

The following activities are planned for the next quarter:

- Deliver the 5 success stories books.
- Complete the editing and production of the BCWUAs film.
- Deliver the IWMDs FAQ.
- Deliver 6 fact sheets concerning water quality, water distribution, maintenance, building capacity, conflict resolution and public awareness.
- Complete design and deliver IWMD brochure (27).
- Deliver the PWM brochure.
- Present Final Project Workshop

Training

The following training courses are planned for the next quarter:

ID	Course Title	Task	Events	Date	Venue
6.2.29	OJT for Graduates on Reuse of Treated Waste Water in Agriculture	6	1	July 08	Luxor
5.4.5	OJT Training during Construction of WWTF	GDA	9	July – Sept. 08	Luxor, El Santa & S. Zifta
6.2.	Task 6 Final Workshop	6	1	TBD	TBD
8.4	Life IWRM Project Final Workshop	C.C	1	Aug. 22-24, 08	Helnan Palestine Hotel – Alex.

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. HE Minister MWRI has approved the Plan. Head of Irrigation Department held a meeting on Sustainability of LIFE Project IWMDs with all US, GDs from 5 target Directorates and 27 IWMD District Managers.

Guidelines for Implementation of Integrated Water Management Districts have been prepared and distributed. 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 support to IWMD staff. In order to ensure the sustainability of such activities, Directorate should continue holding monthly water distribution meetings. Conducting regular field visits to IWMDs by Directorate staff is also important to ensure that databases and monitoring programs are working and to fix any arisen issues.

Linkage between the MWRI central units and IWMDs was established by the LIFE project. The Ministry should take advantage of this linkage to ensure sustainability of IWMDs activities.

Task 4: Improved Maintenance and Upgrading of Water Management Equipment

None at this time.

Task 5: Environmental Services for Improving Water Quality Management

Transfer of the Senbo WWTF and costs for O&M remains an issue. USAID and MWRI are actively involved in solving this problem with the Water and Waste Water Holding Company. Discussions continued with Gharbiya Water & Waste Water Company and it looks like they will accept transfer of the facility.

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

The El Toud Local Council has objected to the location of the WWTF. The project received a letter from MWRI on 26 June requesting that we postpone work at the El Toud, Luxor worksite until the issue is resolved. USAID was informed that the project would comply. This will have unanticipated consequences that could affect the total cost and cause delays in completion of the work. Meetings will be scheduled with USAID to discuss details. A joint UNICEF/IRG team will visit Luxor to discuss with involved stakeholders.

GDA issues of electricity hook-up at all sites, connection of sewage network to Damanhour El Wahsh WWTF site, and potable water connection to at Damanhour El Wahsh & El Toud remain unsolved issues. Unless these issues are resolved by 1 August, the project will have difficulty starting-up and testing the WWTFs before end of project (30 September 2008). UNICEF and IRG with assistance from MWRI are working with the local CDA consortiums to help solve these problems. MWRI has agreed to write letters to the concerned Governorate officials to assist with the process.

Task 6: Improved Wastewater Reuse Practices

None at this time.

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

Mahmoud Said, Project Finance/Procurement Officer, departed the Project on 30 May. Because of the short time remaining under the Project his responsibilities will be distributed among current staff. Dahlia Hamdy will now be responsible for financial and training activities. Amany Mahmoud will be responsible for office, personnel administration, and procurement.

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 (Departed)	Financial/Procurement Officer
Dahlia Hamdy	Financial/Training Officer
Amany Mahmoud	Office, Personnel, Procurement Manager
Nahid Nabil	Administrative Manager (Upper Egypt)

SHORT TERM STAFF DURING THE REPORT PERIOD

EXPATRIATE

NAME	POSITION
Russell Misheloff	IRG Principal and LIFE IWRM IQC/Task Order Manager
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 April – June 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		165,886	1,520,486	-182,979	114		
Other Direct Costs	4,756,111		376,886	4,120,734	635,377	87		
Subcontractor Handling Fee	53,486		3,167	41,462	12,024	78		
Fixed Fee	338,090		30,027	312,650	25,440	92		
Total Cost Plus Fixed Fee	6,485,194		575,965	5,995,333	489,861	92		
GDA Component	230,000		14,600	38,032	191,968	17		
Total Cost Plus Fixed Fee	6,715,194	6,715,194	590,565	6,033,365	681,829	90	681,829	90

Source: IRG 3005-001 Invoices #1 to 44; estimate # 45. 3005-004 (GDA) Invoices #1 to 8; estimate #9

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		
Total Cost Plus Fixed Fee	23,385,664		0	22,988,817	396,847	98		
GDA Component	1,539,000		1,797,342	1,943,785	-404,785	126		
Total Cost Plus Fixed Fee	24,924,664	24,924,664	1,797,342	24,932,602	-7,938	100	-7,938	100

Source: IRG 3005-002 Invoices #1 – 27. 3005-003(GDA) Invoices # 1-3; estimate #4

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
46	Quarterly Report (January - March 2008)	Apr 2008
47	District Boundaries and Canal & Drain Layouts	Apr 2008

No.	NAME	Date
48	IWMD Staffing Plans	Apr 2008
49	Calibration of Canal Flow Rating Curves in IWMDs	Apr 2008
50	Calibration of Drain Flow Rating Curves in IWMDs	Apr 2008
51	IWMD Water Budget (2005/2006 – 2006/2007)	Apr 2008
52	Water Resources Inventory (2006 – 2007)	Apr 2008