

Ministry of Water Resources and Irrigation
US Agency for International Development
Agricultural Policy Reform Program
Environmental Policy and Institutional Strengthening Indefinite Quantity Contract

**APRP – Water Policy Activity
Contract PCE-I-00-96-00002-00
Task Order 807**

**QUARTERLY REPORT
(OCTOBER-DECEMBER 2001)**

Report No. 52

JANUARY 2002

**QUARTERLY REPORT
(OCTOBER-DECEMBER 2001)**

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I. SUMMARY

The EPIQ Water Policy Reform Program (Contract PCE-I-00-96-00002-00, Task Order 807) is responsible for advising and providing technical assistance to the Ministry of Water Resources and Irrigation (MWRI) of the Government of Egypt (GOE) with respect to improved policy assessment and planning, improved irrigation system management, and improved private sector participation. EPIQ/WPRP is a component of the USAID Agricultural Policy Reform Program (APRP). EPIQ team members successfully completed Phase I of the Tranche IV Benchmarks in 2000 and are currently implementing activities related to the Tranche IV Phase II and Tranche V Benchmarks.

The Memorandum of Understanding (MOU) for Tranche IV was signed on 20 September 1999 and included four, two-year water policy benchmarks. These are:

- C.1. Reducing Mismatch of Irrigation Deliveries (since renamed Matching Irrigation Supplies with Demand)
- C.2. Urban Wastewater and Drainage Reuse.
- C.4. Irrigation Management Transfer.
- C.5. Revision of Law 12/1984 on Irrigation and Drainage.

Not listed above is Benchmark C.3, which was included in Tranche IV as a one-year benchmark and it was successfully completed in December 2000. The MWRI has sole responsibility for three of these benchmarks (C.2, C.4, C.5). The remaining benchmark (C.1) is a joint benchmark with the MALR. The benchmarks are multi-year benchmarks, which means they required partial completion in Phase 1 (December 2000) and final completion in Phase II (December 2001). One of the benchmarks is being coordinated by WPAU (C.5), two of the benchmarks are being coordinated by EPIQ (C.2, C.4); and EPIQ/RDI/PMU are jointly coordinating one benchmark (C.1).

The Tranche V MOU was approved and signed on 15 July 2001. The Tranche V MOU contains three water policy benchmarks as follows:

- C.1 Integrated Water Management District
- C.2 Public Participation in Decision Making
- C.3 Environmental Management at MWRI

The Tranche V work plan was prepared and presented to the Steering Committee at a workshop held on 23-24 February. Since the MOU was not finalized at the time, the Committee approved the work plan contingent on the final wording of the approved MOU. Final approval of the work plan took place on 15 July, concurrent with signing of the MOU.

All benchmark support activities were completed by December and the Monitoring, Verification and Evaluation Unit (MVE) of APRP completed their verification report shortly thereafter. The MVE report judged that all water policy benchmark requirements had been accomplished. This report was reviewed in details by USAID and they concurred with the conclusions reached by MVE.

Specific accomplishments- Tranche IV, Phase II Benchmarks:

C.1. Matching Irrigation Supplies with Demands

The EPIQ Irrigation Scheduling, Specialist (expatriate STTA) developed a simple tool (Microsoft Excel spreadsheet) during the previous reporting period. This tool is intended for use by the district engineers to calculate crop water needs from the cropping pattern information provided twice each month by MALR. Conversion of this tool to Access software format was started during the reporting period in order to make it more user friendly and useable. The EPIQ Computer Training Specialist (local STTA) continued to provide training in MISD-Specific applications. A total of 28 participant training days were conducted. Primary focus during the period was drafting the benchmark policy statement and the final draft report. The draft report was approved by the Steering Committee at the Tranche IV workshop held in November and the policy was approved

by H.E. Minister Abu-Zeid. The final benchmark report was produced and distributed in December.

C.2. Urban Wastewater and Drainage Reuse

The benchmark Working Group met regularly and all five pilot programs were completed during the reporting period. The early portion of the period was spent in completing the Final Draft Benchmark report. The report was approved with minor modifications suggested at the Tranche IV workshop held in November. The remainder of the reporting period was devoted to finalizing the benchmark report. The final report was completed and distributed in December.

C.4. Irrigation Management Transfer

The Irrigation Management Transfer Program of the EPIQ Water Policy project was actively engaged in a number of major activities leading toward completion of the benchmark. The IMT Steering Committee approved the IMT Public Awareness Campaign (PAC) plan and its components, and referred the matter to the Minister's Office for allocating funds and to the MWRI Communications Unit for implementation. The proposals for the physical rehabilitation of the four pilot sites were approved by the IMT Steering Committee and the MWRI Minister, who issued an executive order to the Irrigation Department, the Mechanical & Electrical Department and the Drainage Authority, to commence work within the approved budget. The IMT Physical Rehabilitation design work performed under EPIQ was completed, with submission of final designs and tender documents. As part of the IMT cost-sharing and MOU planning process, multiple stakeholder focus group meetings were held in the selected pilot program areas. The IMT study tour to Turkey was successfully undertaken October 28-November 8, as the second part of the IMT international experience. The final draft benchmark report was completed and approved by the Steering Committee at a workshop held in November. The report was finalized and distributed in December.

C.5 Revision of Law 12/1984 on Irrigation and Drainage

The final draft version of the revised law and its Executive Regulation were completed at the beginning of the period followed by a stakeholder's workshop. Stakeholder input obtained during the workshop was integrated into the law and its regulation. The final draft benchmark report was prepared and presented at the Tranche IV workshop held in November. The Steering Committee approved the final draft report with minor modifications. The final benchmark report was prepared and distributed in December.

Specific Accomplishments-Tranche V Benchmarks

C.1. Integrated Water Management District

The benchmark working group continued to meet during the working period. Meetings were held with the new Heads of Irrigation Department and Drainage Authority to brief them on the benchmark activities. Meetings were also held with local management staff responsible for the two pilot districts to discuss implementation issues. Primary focus during the reporting period was on completion of the final draft benchmark report and policy statement. The report was approved by the Steering Committee and the draft national policy statement was signed and issued by H.E. Minister Abu-Zeid. The Final Benchmark Report was completed and distributed in December.

C.2. Public Participation in Decision-Making

The benchmark working group continued to hold regular meetings. The main focus of the groups efforts during the reporting period was on completion of the draft benchmark report and national policy statement. The policy was approved and issued as a Ministerial Decree and the final draft benchmark report was approved. The Final Benchmark Report was completed and issued in December.

C.3 Environmental Management at MWRI

The benchmark working group met regularly during the reporting period. A stakeholder workshop for top management officials of MWRI, MOHP, MALR and EEAA was held in October. The final draft benchmark report was issued to the Steering Committee and approved with minor suggested modifications. The draft report was finalized and distributed and the national policy statement was approved and issued by H.E. Minister Abu-Zeid in December.

Studies and Benchmark Related Activities

The primary instrument design and data collection elements of the follow-up study to the 1998 KAP (Knowledge, Attitudes and Practices) farmer survey were successfully completed during this period. This included the complementary set of PRAs (Participatory Rural Appraisals). Initial results have been tabulated by the contractor and submitted to EPIQ for review. Draft reporting documents will be submitted in February 2002.

The MBI Study continued during the period. The Supervisory Resource Economist and the Environmental Economist (both expatriate STTA) made two brief visits during the reporting period. A detailed work plan was prepared, the draft document titled International Experience with Economic Instruments for Managing Water Quality and Water Quantity was completed. A local economist was added to the staff on a short-term basis and commenced investigating the impact of taxes and subsidies on agricultural water use and water quality.

Other Activities/Important Events

Dr. Richard Brown, Winrock Vice President visited the project in November. Dr. David Joslyn, IRG Vice President visited the project in November. Ms. Sinikka DeHanas, Winrock Coordinator for EPIQ activities visited the project in November.

I. ACCOMPLISHMENTS DURING THE REPORT PERIOD

During the 4th quarter, October through December 2001, the EPIQ TA team worked with USAID, Ministry for Water Resources and Irrigation (MWRI), Egyptian Environmental Affairs Agency (EEAA), Ministry of Agriculture and Land Reclamation (MALR), Water Policy Advisory Unit (WPAU) and the other Agriculture Policy Reform Program (APRP) TA units on the implementation of the Tranche IV Phase II and Tranche V water policy benchmark activities. The other TA units include the Program Management Unit (PMU), Monitoring, Verification and Evaluation Unit (MVE), and the Reform Design and Implementation Unit (RDI).

Benchmark Support-Tranche IV, Phase II

C.1. Matching Irrigation Supply and Demand (MWRI/MALR)

Dr. Larry King, EPIQ Senior Irrigation Engineer, and Eng. Sarwat Fahmy, WPAU, have primary responsibility for this activity as co-task managers for the EPIQ/WPAU/WPRP team with support from EPIQ team members Dr. Ragab Abdel Azim, Irrigation Engineer, and Dr. El-Sayed Mahdy, Water Resource Economist, and part-time TA support from Eng. Hussein Elwan, Head of Central Directorate for Water Distribution, MWRI, and Eng. Sanaa Abdel Rashid (CDWD/MWRI). Eng. Alaa Hassan and Eng. Mohamed El Margoshi of WPAU provided further technical assistance on a part-time basis. While the formal title of this benchmark is “Reducing Mismatch of Irrigation Deliveries”, the working group has adopted the title “Matching Irrigation Supply and Demand” (MISD) to emphasize the positive aspects of this activity. The core MISD Working Group of this joint MWRI/MALR benchmark is composed of Dr. Larry King, Dr. Jane Gleason (RDI), Dr. Ragab Abdel Azim, Eng. Hussein Elwan, and Eng. Mohamed El Shahed (Head, Economic Affairs Sector, MALR). The expanded joint group is the core group plus representatives from MWRI, MALR, EPIQ, RDI and PMU, WPAU, as well as the Undersecretaries, General Directors, Inspectors, District Engineers, and Agricultural Extensionists for the four selected directorates containing 31 irrigation districts within the four governorates: Sharkiya, Beheira, Beni Suef and Qena/Luxor.

Activities carried out by the EPIQ team during the reporting period were:

- ◆ Work on implementation of the MISD plan was continued within the five pilot districts on their delivery of water based on cropping pattern data collected by the extension agents for each branch canal of the irrigation district. Contact was maintained by email between the EPIQ team and the pilot district engineers. The water monitoring programs in these pilot districts established during 2000 were continued including the regular electronic data transfer to Cairo offices.
- ◆ Analysis of the water monitoring data collected in the five pilot districts for the period March 1, 2000 through June 30, 2001 continued. The output of this activity will be a data book that will constitute a “users manual” of how the agricultural data can be used to determine water requirements and how to compare actual water releases with predicted.
- ◆ The computer Training Specialist (local STTA) completed implementation of the MISD training plan during the period. The last course on MISD-specific applications was conducted for seven district engineers.
- ◆ The Irrigation Scheduling Specialist (expatriate STTA) completed a spreadsheet (Microsoft Excel) during the last quarter for calculating crop water needs from the cropping pattern information provided twice each month by MALR. He recommended that EPIQ develop a Microsoft Access version of this calculation program. Work on converting the Access version continued during the period.
- ◆ The final draft report of MISD Phase II activities was written and presented at the APRP Water Policy Program Tranche IV Benchmark final workshop in Ras Sidr. The report was approved by the APRP Steering Committee and finalized as APRP-WPRP Report No. 45, Matching Irrigation Supplies and Demands.
- ◆ A draft national policy was drafted by the working group and submitted to MWRI and MALR. The policy was subsequently signed jointly by the Minister of Water Resources and Irrigation and the Minister of Agriculture and Land Reclamation.

C.2. Urban Wastewater and Drainage Reuse

The MWRI/APRP wastewater task group leads the implementation of this benchmark. Dr. Zhongping Zhu, EPIQ co-task manager, and Eng. Nasser Ezzat, WPAU co-task manager, share responsibility for managing implementation activities. In year 2001, the task group includes: Eng. Hussein El Atfy and Dr. Hesham Kandil of MWRI Minister's Office, Eng. Mohamed Fathy, Eng. Hamza, Eng. Mohamed El Khazragy of MWRI EPADP, Dr. Ibrahim Ellassiouty and Dr. Ahmed Fakhry Khattab of EPIQ; Eng. Mohamed Hamed and Eng. Hisham Shehab of WPAU; Dr. Seham Hendy of MOHP; Dr. Mamdouh Riad of MALR; Dr. Samia Galal of MEA, and Eng. Magda Gaballa and Eng. Mohsen Mamdouh of NOPWASD. The team was supplemented with the addition of Mr. J. Hendrichs, STTA Environmental Engineer in mid-August. Dr. Zhu departed the project on 30 September and his responsibilities were taken up by Mr. Hendrichs and Dr. Ellassiouty.

Activities carried out by the EPIQ Team during the reporting period focused on evaluating the pilot activities that were completed previously, completing the remaining pilot activities and preparing the final benchmark report. Specific activities were as follows:

- ◆ The benchmark working group met regularly during the first month of the reporting period to review the pilot study results and to coordinate the remaining benchmark tasks.
- ◆ Pilot No. 2, Wastewater Treatment Plant Construction Priorities was completed during the period. Treatment plants in the pilot area were analyzed and seven were identified as having priority based on the total contribution to drain water quality improvement. This priority list was presented at a joint meeting of MWRI and NOPWASD officials and it was accepted for submission to the joint Committee.
- ◆ Graphic presentations of the Drain Classification pilot program were prepared in order to present the results of the pilot in a simpler and clearer manner.

- ◆ The draft report of Urban Wastewater and Drainage Reuse Phase II activities was written and presented at the APRP Water Policy Program Tranche IV Benchmark final workshop in Ras Sidr. The report was approved by the APRP Steering Committee and finalized as APRP-WPRP Report No. 46, Application of Policies and Procedures for Improved Urban Wastewater Discharge and Reuse.

C.4. Irrigation Management Transfer

Dr. Robert Cardinalli (task Manager) with support from the Co-Task Manager of the MWRI Water Policy Advisory Unit, Eng. Mohamed Nasser Ezzat, is responsible for this activity.

The major accomplishments during the reporting period included:

- ◆ The benchmark-Working Group continued its formal meeting schedule and is comprised of the EPIQ Senior Sociologist (task manager), and representation from the WPAU (Eng. Nasser Ezzat, Eng. Amira Abdel Hady, Eng. Moamen El Sharkawy), MED (Eng. Ali Khalil, Eng. Mohamed), IAS (Eng. Essam Barakat), EPADP (Dr. Mahmoud Moustafa), and Horizontal Expansion sector (Eng. Rashad Ahmed).
- ◆ Multiple stakeholder focus group workshops were held involving farmers and ministry officials from the four pilot areas, at El Nazl (Dakahleya), El Shebab (Sharkaiya), South Tahrir (Beheira), and Beni Abed (El Minya) in order to formalize the BCWUA transfer and to develop dialogue on cost sharing for O&M.
- ◆ The study tour to Turkey as the second part of the IMT international experience was successfully completed during the period Oct. 28-Nov. 8. Participants included private sector representation from the chairman of the four pilot IMT BCWUAs, senior planning officials of MWRI, local governorate officials and several members of the IMT working group.
- ◆ The draft report of IMT Phase II activities was written and presented at the APRP-WPRP Tranche IV Benchmark final workshop in Ras Sidr. The report

was approved by the APRP Steering Committee and finalized as APRP-WPRP Report No. 47, MWRI Policy on Irrigation Management Transfer.

C.5. Revision of Law 12/1984 on Irrigation and Drainage

This activity is being led by WPAU (Eng. Sarwat Fahmy and Eng. Nasser Ezzat). Dr. Ibrahim Ellassiouty (EPIQ Coordinator) is assisting. EPIQ has provided short-term TA for this activity through the EPIQ task order (Eng. Ahmed Maher, Local Irrigation Engineer and Dr. Mohamed Badran, Local Legal Advisor). Two WPAU engineers are supporting the law 12 group (Eng. Amira El Diasty and Eng. Moemen EL Sharkawy).

Activities carried out by the WPAU/EPIQ team during the reporting period area were as follows:

- ◆ The Working Group completed the final review and revision of the law and it's Executive Regulation.
- ◆ A stakeholders workshop was conducted in Alexandria on 5-6 October and feedback from that workshop was incorporated into the revised law and it's Executive Regulation.
- ◆ A draft report of the Law 12, Phase II activities was written and presented at the APRP-WPRP Tranche IV Benchmark final workshop held in Ras Sidr during November. The report was approved by the APRP Steering Committee and finalized as APRP-WPRP Report No. 48, Revised Law 12 of 1984 on Water Resources and it's Executive Regulation.

Benchmark Support-Tranche V

C.1 Integrated Water Management District

Dr. Larry King, EPIQ Senior Irrigation Engineer, and Eng. Sarwat Fahmy, WPAU, have primary responsibility for this activity as co-task managers for the EPIQ/WPAU/WPRP team with support from EPIQ team members Dr. Ragab Abdel Azim, Irrigation Engineer, Dr. Ibrahim Ellassiouty, Water Resource Management Specialist, Dr. Robert Cardinalli,

Senior Sociologist, and Dr. Elsayed Mahdy, Water Resource Economist, and support from WPAU team members Eng. Mohamed Hamed, eng. Hisham Shehab Eng. Amira El Diasty, and Eng. Moemen El Sharkawy. The IWMD Working Group is composed of the above-named individuals plus two MWRI representatives Eng. Ali Morsi, Head of Irrigation Department, and Eng. Mohamed Fathy, Head of Egyptian Public Authority for Drainage. EPIQ team members, Dr. Robert Cardinalli, Senior Sociologist, and Dr. El-Sayed Mahdy, Water Resource Economist provide support as needed.

Activities carried out by the EPIQ/WPAU team during the reporting period were:

- ◆ The IWMD working group continued meeting to discuss implementation issues and to review ongoing activities.
- ◆ Key working group members held several briefing meetings for the new heads of the Irrigation Department and the Drainage Authority who took up their posts at the beginning of the reporting period.
- ◆ A draft report of the IWMD activities was written and presented to the APRP Steering Committee. Upon receipt of the Steering Committee approval, the report was finalized as APRP-WPRP Report No. 49, Integrated Water Management District.
- ◆ The working group prepared a draft national policy statement that was submitted to, and approved by H.E. Minister Abu-Zeid.

C.2. Public Participation in Decision-Making

Adrian Hutchens, EPIQ co-task manager, and Eng. Sarwat Fahmy, WPAU co-task manager, share responsibility for managing this benchmark. They are supported by the remainder of the Public Participation Work Group (PPWG) who are: Dr. Elsayed Mahdy, EPIQ Water Resource Economist; Eng. Hussein El Atfy, Undersecretary of Minister's Office; Eng. Salah El Shazly, Undersecretary of Central Administration for Complaints; Dr. Hesham Kandil, Director for Technology and Information; Dr. Hesham Moustafa, Head Water Communication Unit; Eng. Essam Barakat, Undersecretary of Irrigation Advisory Service; Eng. Amira El Diasty, WPAU Technical Staff; and Eng. Moemen EL

Sharkawy, WPAU Technical Staff. Mr. Hutchens departed the Project on 30 September and his duties were assumed by Eng. Sarwat and Dr. Mahdy during the reporting period.

The major accomplishments during the quarter included:

- ◆ Meetings of the working group continued on a regular basis throughout the reporting period.
- ◆ A draft report of the Public Participation activities was written and presented to the APRP Steering Committee. Upon receipt of the Steering Committee approval, the report was finalized as APRP-WPRP Report No. 50, Public Participation in Decision Making.
- ◆ The draft policy statement was prepared and discussed at several working group meetings with revisions made after each meeting. The final draft was submitted to MWRI and signed by H.E. Minister Abu-Zeid.

C.3. Environmental Management in MWRI

The MWRI/APRP environmental task group leads the implementation of this benchmark. Eng. Nasser Ezzat, WPAU co-task manager, and Dr. Zhogping Zhu, EPIQ co-task manager, share responsibility for managing implementation activities. The task group members are: Eng. Moemen El Sharkawy, Eng. Hisham Shehab and Eng. Mohamed Hamed of WPAU; Dr. Ibrahim Ellassiouty of EPIQ; Dr. Daaa El Qousy, Dr. Hesham Kandil, and Eng. Hussein EL Atfy of MWRI; Dr. Ali Nasser, consultant; and Dr. Ahmed Abul Azm of EEAA. Dr. Zhu departed the project on 30 September and his responsibilities were taken up by Eng. Nasser Ezzat during the reporting period.

The major accomplishments during the reporting period included:

- ◆ Meetings of the Benchmark Working Group were held on a regular basis to coordinate the work.

- ◆ A stakeholders workshop was conducted for management officials of MWRI, MOHP, MALR and EEAA in order to solicit input to the national policy statement and project report.
- ◆ Preparation of a reference guide (MWRI Source Book) for conducting EIA within MWRI was completed during the reporting period.
- ◆ A draft report of the Environmental Management activities was written and presented to the APRP Steering Committee. Upon receipt of the Steering Committee approval, the report was finalized as APRP-WPRP Report No. 51, Environmental Management at MWRI.
- ◆ A draft policy statement was prepared and submitted to MWRI. H.E. Minister Abu-Zeid approved and distributed the policy statement within MWRI.

Studies & Benchmark Related Activities

The terms of reference for the EPIQ task order is structured around a results package, jointly designed by USAID and MWRI, consisting of integrated water policy and institutional reforms. To support this results package, the EPIQ team is able to carry out studies that support policy reform or have the potential of leading to future policy benchmarks. The EPIQ team is also involved in supporting select activities that relate directly to implementation of previous water policy benchmarks. Non-benchmark activities that fall into this category are discussed below.

Impact Assessment

No work was programmed for this activity during the quarter.

Knowledge, Attitudes and Practices Survey (KAP)

Dr. Robert Cardinalli (EPIQ Sociologist) is coordinating this study in cooperation with WPAU and the Ministry's Water Communication Unit. This survey is intended to be a follow-on to the previous KAP survey conducted by Greencom in 1998. It is intended to provide information regarding the effectiveness of the policy reforms implemented under

APRP and also provide input to the Impact Analysis. The present study will generally replicate the questionnaire and sample population of the first study, with addition of a sampling of reclamation areas “new lands”, as well as a qualitative community case study component using Participatory Rural Appraisal (PRA) methods to supplement and verify the veracity of quantitative results. The survey questionnaire was designed and tested, field work was completed and data cleaning was initiated during the reporting period.

Market-Based Instruments (MBI) Study

During the process of negotiating the contract extension period, it was jointly decided by MWRI, USAID and the EPIQ contractor that a new study related to Market-Based Instruments (MBIs) be undertaken. The objective is to study issues related to the use of MBIs and identify MBIs that have the potential to achieve additional improvements in irrigation efficiency and water quality. The intent is to define policy adjustments that will facilitate the use of MBIs by MWRI.

Dr. David McCauley, Supervisory Resource Economist is responsible to design, oversee and coordinate this study through a Short Term Technical Assistance arrangement. Dr. Elsayed Mahdy, EPIQ Economist and Dr. Ibrahim Ellassiouty, EPIQ Water Resources Specialist provide primary support to the study team. This study continued on schedule. A literature search is ongoing, the major problem areas were defined, an interim report on international experience with MBIs was completed and several analyses were initiated.

Workshops

Several benchmark implementation seminars and benchmark-specific workshops were held during the reporting period. These are summarized as follows:

Law 12

A stakeholders workshop was conducted in order to present and discuss the proposed revision to Law 12 and its Executive Regulation and to solicit feedback prior to finalizing them.

Environmental Management

A stakeholder workshop was conducted for senior management staff of MWRI, MOHP, MALR and EEAA to present the status of the benchmark activities and to solicit feedback/input to the draft policy statement and final report.

Tranche IV Final Workshop

A workshop was held to present and discuss the final draft reports for Tranche IV. The APRP Steering Committee was in attendance and met immediately after the workshop and approved all Tranche IV benchmark reports.

Non-Project Conferences

EPIQ WPRP participated in Environment 2001 International Conference by hosting a display booth.

APRP/EPIQ Coordination

Close coordination between the EPIQ team and other units of APRP, USAID and MWRI continued.

Members of the EPIQ WPRP team participated in the bi-weekly APRP coordination meetings and the PPC meetings.

Regular water group coordination meetings were held at MWRI. USAID Ag policy water staff, WPAU, and EPIQ WPRP participated.

Regular meetings of all benchmark-working groups were held throughout the quarter. There were also field trips and meetings with governorate and district level personnel.

Reports

Nine reports were issued during the reporting period as follows:

No. 43 PPDM User's Manual (October 2001)

No. 44 Quarterly Report (July-September 2001)

No. 45 Matching Irrigation Supplies and Demands (December 2001)

No. 46 Application of Policies and Procedures for Improved Urban Wastewater Discharge and Reuse (December 2001)

No. 47 MWRI Policy on Irrigation Management Transfer (December 2001)

No. 48 Revised Law 12 of 1984 on Water Resources and its Executive Regulation (December 2001)

No. 49 Integrated Water Management District (December 2001)

No. 50 Public Participation in Decision-Making (December 2001)

No. 51 Environmental Management at MWRI (December 2001)

I. ACTIVITIES PLANNED FOR NEXT QUARTER

Follow-up Benchmark Support-Tranche IV

C.1: Reducing Mismatch of Irrigation Deliveries

The following activities are planned for the next quarter:

- ◆ Continue technical assistance to the MWRI and MALR for expansion of MISD activities to cover all irrigation districts in each of the four pilot directorates (Beheira, Beni Suef, Qena, and West Sharkaiya) primarily through evaluation of the MISD information transfer process.
- ◆ Continue assistance to MWRI and MALR for expansion of the MISD program nationwide through developing an implementation plan.
- ◆ Complete the development of the district engineer's simple tool (Microsoft Access version) for calculating crop water needs using the semimonthly MALR cropping pattern information and deliver it to the five pilot districts and four directorates.

- ◆ Complete preparation of data books for each pilot district that can be used as an implementation handbook for MISD expansion.
- ◆ Complete analysis of real-time delivery of water to districts during the pilot program to compare predictions with actual.

C.4 Irrigation Management Transfer

The following activities are planned for the next quarter:

- ◆ Support MWRI/WPAU with activities required to institutionalize IMT within MWRI through preparation of all documents required for submittal to the Central Directorate for Administration and Organization.
- ◆ Support MWRI/WPAU with formulation of a long-term BCWUA Action plan including identification of resources, phased cost-sharing agreement, capacity building measures and a detailed implementation plan.

Follow-up Benchmark Support-Tranche V

C.1 Integrated Water Management District

The following activities are planned for next quarter:

- ◆ Support MWRI/WPAU with preparation of an implementation plan based on the results and recommendations of Report No. 49.

Studies and Benchmark Related Activities

<u>Impact Analysis:</u>	Executive of this activity will commence.
<u>KAP Survey:</u>	Complete survey and publish report.
<u>Market-Based Instruments Study:</u>	Complete study and publish report.

Policy Implementation Study: Initiate study to review status of previous policy reforms, identify policies that are not fully implemented and the reasons why, and formulate recommendations for achieving full implementation and sustainability.

I. PROBLEMS AND ISSUES

No serious problems have arisen nor are any anticipated.

I. IMPORTANT TRIPS, VISITS AND MEETINGS

DATE	LOCATION	PURPOSE
Sept. 30	West Sharkia Directorate	MISD computer training
Oct. 1	MWRI 9 th floor conference room	Law 12 working group meeting
Oct. 3	MWRI 9 th floor conference room	UWDR working group meeting
Oct. 5-6	Alexandria	Law 12 stakeholder workshop
Oct. 8	MWRI 9 TH floor conference room	Law 12 working group meeting
Oct. 10	MWRI 9 th floor conference room	UWDR working group meeting
Oct. 11	MWRI 9 th floor conference room	PPDM work group meeting
Oct. 15	MWRI 9 th floor conference room	Law 12 working group meeting
Oct. 18-19	Ras Sidr	ENVM stakeholder
Oct. 22	MWRI 9 th floor conference room	Law 12 working group meeting
Oct. 24	MWRI 9 th floor	UWDR working group meeting

DATE	LOCATION	PURPOSE
Oct. 25	MWRI 9 th floor conference room	Law 12 working group meeting
Oct. 28	◆ MWRI 9 th floor ◆ Turkey	◆ IMT steering committee meeting ◆ Irrigation Management Transfer study tour
Oct. 29	MWRI 9 th floor conference room	Law 12 working group meeting
Oct. 29-30	Conference	Environment 2001 Conference
Nov. 9-10	Ain Sokhna	Tranche IV Final workshop
Nov. 14	MWRI 9 th floor conference room	ENVM working group meeting
Dec. 3	MWRI 9 th floor conference room	ENVM working group meeting
Dec. 4	Contractor's Office	Meeting with national KAP PRA study director
Dec. 9	Shebin El Kom, Menoufia	Joint MALR/MWRI/MISD implementation field trip
Dec. 10	MWRI 9 th floor conference room	ENVM working group meeting

I. STAFF LEVEL OF EFFORT

The EPIQ resident team had a technical consulting staff of eight people (4 expatriate and 4 local professionals) and an administrative support staff of ten people throughout the reporting period.

The LTTA and STTA staffing list for the quarter is shown below:

RESIDENT STAFF

EXPATRIATE

NAME	POSITION
Mr. Andrew Tczap	Chief of Party
Greg Olson	Administrative Officer
Dr. Larry King	Senior Irrigation Engineer
Dr. Robert Cardinalli	Senior Sociologist

RESIDENT STAFF

NAME	POSITION
Dr. Ahmed F. Khattab	Co-Team Leader
Dr. Ibrahim Elassiouty	Senior Water Resources Management Specialist
Dr. Elsayed Mahdy	Economist
Eng. Ragab Abdel Azim	Drainage Engineer

SHORT TERM STAFF DURING THE REPORT PERIOD

EXPATRIATE

NAME	POSITION
Jeffrey Hendrich	Environmental Engineer
David Josslyn	Corporate VP
Robert Anderson	Environmental Resource Economist
Sinikka Sehanas	Winrock Coordinator
Richard Brown	VP Programs
David McCauley	Resource Economist

LOCAL EGYPTIAN

NAME	POSITION
Hussein Elwan	Irrigation Management Specialist
Sanaa Abdel Rashid	Water Data Analysis Specialist
Hussein El Atfy	Senior Water Policy Specialist
Hesham Kandil	Senior Water Quality Specialist
Siham Hendy	Senior Public Health Specialist
Mamdouh Riad	Senior Forestry Specialist
Magda Gaballa	Senior Wastewater Treatment Specialist
Mohsen Mamdouh	Senior Wastewater Treatment Specialist
Abdel Rahman Shalaby	Senior Institutional Policy Specialist
Ahmed Maher Ghydan	Senior Irrigation Specialist
Mohamed Badran	Legal Specialist
Hesham Moustafa	Communications Specialist
Mohamed Fathy	Senior Drainage Specialist
Abdel Moniem Hamza	Drainage Engineer
Mahamed El Khazragy	Drainage Engineer
Essam Barakat	Senior IAS Specialist
Ali Morsi	Senior Irrigation Specialist
Salah El Shazly	Senior Institutional Specialist
Diaa El Qousy	Senior Water Resources Specialist
Ahmed Gaber	Environmental Consultant
Ali Hassan	Environmental Consultant
Amgad El Ansary	Environmental Consultant
Ashraf Ghanem	Environmental Consultant
Ahmed Abul Azm	Environmental Consultant

I. STATUS OF FINANCES AND EXPENDITURES

EPIQ WPRP Financial summary for 4th Quarter 2001 (October-December 2001)

	Itemized Budget	Prior Claimed	Current Claim	Claims to Date	Remaining Balance	Budget Claimed
Direct Labor	\$7,117,553	\$6,314,780	\$360,000	\$6,674,780	\$442,773	94%
Travel & Transp.	\$330,000	\$278,525	\$15,000	\$293,525	\$36,475	89%
Per Diem	\$340,000	\$275,150	\$20,000	\$295,150	\$44,850	87%
Allowances	\$1,370,000	\$1,147,142	\$48,000	\$1,195,142	\$174,858	87%
Other Direct Costs	\$1,717,050	\$1,449,192	\$145,000	\$1,594,192	\$122,858	93%
Total	\$10,874,603	\$9,464,789	\$588,000	\$10,052,789	\$821,814	92%

Source: IRG Invoices #53 and 54 plus estimate of invoice 55

I. LIST OF REPORTS

No.	NAME	DATE
1	APRP Tranche II Policy Benchmark Background Documentation	August 1997
2	Project Implementation Plan	October 1997
3	Annual Technical Progress Report (7 May-31 Dec 1997)	January 1998
4	Annual Work Plan (Jan.-Dec 1998)	April 1998
5	Quarterly Report (Jan.-March 1998)	April 1998
6	Assessment of Egypt's Rice Policy and Strategy for Water Manag.	June 1998
7	Egypt's Irrigation Improvement Program I. Performance Assessment II. Proposed National Strategy	June 1998
8	National Policy for Drainage Water Reuse	June 1998
9	Water User Association Formation Outside the Irrigation Improvement Program Area	June 1998
10	Hydrogeology of Deep Aquifers in the Western Desert and Sinai	August 1998
11	Quarterly Report (April-June 1998)	August 1998
12	WRRP Tranche III Benchmark Work Plan	November 1998
13	Quarterly Report (July-September 1998)	December 1998
14	Quarterly Report (October-December 1998)	January 1999
15	Quarterly Report (January-March 1999)	May 1999
16	Policies and Procedures for Free-Flowing Groundwater Management in Egypt's Western Desert	June 1999
17	Establishment of Branch Canal Water User Associations in the Egyptian Irrigation System	June 1999
18	Institutionalization of the Irrigation Advisory Service in the Ministry of Public Works and Water Resources	June 1999
19	Water Saving Through Utilization of Short Duration Rice Varieties: National Policy Package, 1999-2000	June 1999

No.	NAME	DATE
20	Intermediate Drainage Reuse in Bahr Bagar Drain Basin	June 1999
21	Revision of Law 48 of 1982 for the Protection of the Nile River and its Waterways from Pollution	June 1999
22	Short Duration Rice Variety Pilot Program Results	July 1999
23	Quarterly Report (April– June 1999)	August 1999
24	Tranche IV Water Policy Benchmark Implementation Plan (FY 99/00)	November 1999
25	Quarterly Report (July - September 1999)	November 1999
26	Rice Water Use Policy Phase1: Water Monitoring and Evaluation Program with Appendices	December 1999
27	Review of the Agricultural Sector Model of Egypt (ASME97): 1999 Version	December 1999
28	Quarterly Report (October-December 1999)	January 2000
29	Annual Report (January – December 1999)	February 2000
30	Quarterly Report (January- March 2000)	May 2000
31	Quarterly Report (April- June 2000)	August 2000
32	Quarterly Report (June-September 2001)	
33	Reducing Mismatch of Irrigation Deliveries, Phase I: Pilot Program	November 2000
34	Policies and Procedures for Improved Urban Wastewater Discharge and Reuse	November 2000
35	Water Management at the Directorate Level	November 2000
36	MWRI Policy on Irrigation Management Transfer (Phase I)	December 2000
37	Analysis and Review of Modifications in Law 12 of 1984 on Irrigation and Drainage	December 2000
38	Quarterly Report (October-December 2000)	May 2001
39	Irrigation Management Transfer Public Awareness Campaign Phase 1: Strategy	June 2001

No.	NAME	DATE
40	Quarterly Report (January-March 2001)	July 2001
41	Quarterly Report (April-June 2001)	August 2001
42	IMT Public Awareness Campaign: Phase II	To be submitted
43	PPDM User's Manual	October 2001
44	Quarterly Report (July – Sept 2001)	Nov. 2001
45	Matching Irrigation Supplies and Demands	Dec. 2001
46	Application of Policies and Procedures for Improved Urban Wastewater Discharge and Reuse	Dec. 2001
47	MWRI Policy on Irrigation Management Transfer	Dec. 2001
48	Revised Law 12 of 1984 on Water Resources and its Executive Regulation	Dec. 2001
49	Integrated Water Management District	Dec. 2001
50	Public Participation in Decision-Making	Dec. 2001
51	Environmental Management at MWRI	Dec. 2001